Georgia Power

Grumman Road Private Industrial Landfill

Port Wentworth, Georgia
PERMIT #: 025-061D(LI)
Chatham County

2024 SEMIANNUAL GROUNDWATER MONITORING AND CORRECTIVE ACTION REPORT

Atlantic Coast Consulting, Inc.

PROFESSIONAL CERTIFICATION

This *2024 Semiannual Groundwater Monitoring and Corrective Action Report*, Grumman Road Private Industrial Landfill has been prepared in compliance with the Georgia Environmental Protection Division Rules for Solid Waste Management 391-3-4-.10 and 391-3-4-.14 by a qualified groundwater scientist or engineer with Atlantic Coast Consulting, Inc. I hereby certify that I am a qualified groundwater scientist, in accordance with the Georgia Rules of Solid Waste Management 391-3-4-.01.

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SUMMARY

This summary of the *2024 Semiannual Groundwater Monitoring and Corrective Action Report* provides the groundwater monitoring and corrective action program status from July 2024 through December 2024 for Georgia Power Company (Georgia Power) Grumman Road Private Industrial Landfill (GRL). This summary was prepared by Atlantic Coast Consulting, Inc. (ACC) on behalf of Georgia Power.

GRL (the Site) is located on Gulfstream Road, in Chatham County, Georgia, approximately 0.8 miles east of Savannah/Hilton Head International Airport and 1.3 miles west of the city of Port Wentworth. GRL received coal combustion residuals (CCR) from Georgia Power – Plant Kraft and operated under Georgia Environmental Protection Division (GA EPD) solid waste handling permit number 025-061D(LI). GRL is comprised of four cells or parcels: Parcel A [originally operated under permit number 025-034D(LI)], B1, B2, and B3.

Grumman Road Private Industrial Landfill

Groundwater at the Site is monitored using a comprehensive monitoring system of wells installed to meet state monitoring requirements. Routine sampling and reporting began after background groundwater conditions were established in accordance with the Solid Waste Permit requirements specified in the Design and Operation (D&O) Plan. The monitoring program has been modified to include Appendix III and IV parameters to meet the requirements of the GA EPD Rules for Solid Waste Management 391-3-4-.10(6)(a) and 40 Code of Federal Regulations (CFR) § 257.95. Background groundwater conditions for Appendix III and IV parameters were established between September 2016 and July 2018.

Based on Site groundwater conditions, Georgia Power submitted a notification for the implementation of assessment monitoring under GA EPD Rule 391-3-4-.10(6)(a) on November 13, 2019. An Assessment of Corrective Measures (ACM) was initiated on July 9, 2020 based on the requirements of GA EPD Rule 391-3-4-.10(6)(a) which incorporates United States Environmental Protection Agency (USEPA) CCR Rule (40 CFR Part 257, Subpart D) by reference. Georgia Power submitted an ACM report on December 4, 2020 pursuant to GA EPD Rule 391-3-4-.10(6)(a) (Anchor QEA 2020). The 2020 ACM supersedes previous documents submitted for the Site under the existing GA EPD Permit No. 025-061D(LI) [Southern Company Services (SCS) 2013; ACC 2017, 2019].

During the 2024 semiannual reporting period, ACC completed a groundwater sampling event in August 2024. Groundwater samples were submitted to GEL Laboratories, LLC (GEL) for

analysis of Appendix III[1] and Appendix IV[2] parameters. Per the CCR Rule, groundwater results for August 2024 were evaluated in accordance with the certified statistical methods. That evaluation identified statistically significant values of Appendix III parameters above background and statistically significant levels (SSLs) of Appendix IV parameters above groundwater protection standards (GWPS), as summarized below.

Appendix III Parameter	August 2024
Boron	GWC-16
Calcium	GWB-4R, GWB-6R, GWC-1, GWC-11, GWC-12, GWC-14, GWC-15, GWC-16, GWC-17, GWC-20, GWC-21
Chloride	GWC-17
Fluoride	GWC-17
pH	GWC-12, GWC-15
Sulfate	GWB-4R, GWB-5R, GWB-6R, GWC-11, GWC-12, GWC-16, GWC-17, GWC-20, GWC-21
Appendix IV Parameter[3]	**August 2024**
Arsenic	GWC-15, GWC-16, GWC-20
Molybdenum	GWB-4R, GWC-16, GWC-20

Based on review of the statistical results completed for the groundwater monitoring and corrective action program from July 2024 through December 2024, the Site will continue assessment monitoring and groundwater remedy selection. Georgia Power will continue routine groundwater monitoring and reporting at the Site, and reports will be posted to the website and provided to GA EPD. A *Draft Remedy Selection Report*, which summarizes the evaluation and proposed selection of a corrective measure, or measures, was submitted to GA EPD on July 31, 2023.

[1] Appendix III: Boron, calcium, chloride, fluoride, pH, sulfate, and total dissolved solids (TDS).

[2] Appendix IV: Antimony, arsenic, barium, beryllium, cadmium, chromium, cobalt, fluoride, lead, lithium, mercury, molybdenum, radium 226+228, selenium, and thallium.

[3] An SSL parameter is determined by comparing the confidence intervals developed to either the parameter's maximum contaminant level (MCL); if available, the USEPA Rule Specified Level, if no MCL is available, or the calculated background interwell prediction limit.

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1.0 INTRODUCTION

In accordance with the Georgia Environmental Protection Division (GA EPD) Rules of Solid Waste Management 391-3-4-.10(6)(a)-(c) and 391-3-4-.14, Atlantic Coast Consulting, Inc. (ACC) has prepared this *2024 Semiannual Groundwater Monitoring and Corrective Action Report* to document groundwater monitoring activities conducted July 2024 through December 2024 at Georgia Power Company's Grumman Road Private Industrial Landfill (GRL). To specify groundwater monitoring requirements, GA EPD Rule 391-3-4-.10(6)(a) incorporates by reference the United States Environmental Protection Agency (USEPA) Coal Combustion Residuals (CCR) Rule 40 Code of Federal Regulations (CFR) § 257 Subpart D.

To comply with GA EPD's Rule 391-3-4-.10, a permit application package for GRL was submitted to GA EPD in November 2018 and is currently under review. To meet the requirements of GA EPD Rule 391-3-4-.10(6), Appendix III and IV parameters listed in 40 CFR § 257 were incorporated into the routine groundwater monitoring program through a minor modification in August 2017. Semiannual reporting is completed pursuant to GA EPD Rule 391-3-4-.10(6)(c). This report documents groundwater activities conducted from July 2024 through December 2024.

Georgia Power submitted an Assessment of Corrective Measures (ACM) report in December 2020 pursuant to GA EPD Rule 391-3-4-.10(6)(a) (Anchor QEA 2020). The 2020 ACM supersedes previous documents submitted for the Site under the existing GA EPD Permit No. 025-061D(LI) [SCS 2013; ACC 2017, 2019]. The ACM was prepared to evaluate potential groundwater corrective measures for the occurrence of arsenic and molybdenum in groundwater at statistically significant levels (SSLs) at GRL. A *Draft Remedy Selection Report*, which summarizes the evaluation and proposed selection of a corrective measure, or measures, was submitted to GA EPD on July 31, 2023, (Anchor QEA 2023a) and is currently under review.

1.1 Site Description and Background

GRL is located on Gulfstream Road, in Chatham County, Georgia, approximately 0.8 miles east of Savannah/Hilton Head International Airport and 1.3 miles west of the city of Port Wentworth. GRL occupies approximately 33 acres. GRL received CCR from Georgia Power – Plant Kraft and operated under GA EPD solid waste handling permit number 025-061D(LI). GRL is comprised of four cells or parcels: Parcel A [originally operated under permit number 025-034D(LI)], B1, B2, and B3. Closure of parcels B1, B2, and B3 was completed after CCR disposal ceased. Capping of the last remaining uncapped portion of Parcel A has been completed and was documented to GA EPD in a submittal dated November 27, 2019. Isolated areas of CCR removal near site utility structures were completed in late 2023 and certification of this removal was submitted to GA EPD in February 2024.

GRL is adjacent to two other permitted solid-waste disposal facilities. The closed Clifton Rental Company, Inc., Landfill (Clifton Landfill; Permit No. 025-030D(L)) is located east of the Site, and hydraulically upgradient and cross gradient of the Site. The active Savannah Regional Industrial Landfill (SRIL; Permit No. 025-072D(L)), operated by Republic Services, Inc., is located south of the Site and hydraulically downgradient of both Clifton Landfill and GRL. Figure 1, Site Location Map, depicts the location of GRL relative to the surrounding area. Figure 2, Well Location Map, depicts the general configuration of GRL and the location of the monitoring wells.

1.2 Regional Geology and Hydrogeologic Setting

GRL is underlain by Atlantic Coastal Plain Physiographic Province strata consisting of

unconsolidated to consolidated layers of sand, silt, and clay and semi-consolidated to dense layers of limestone and dolomite (Clarke et al, 2010). These sediments constitute three major aquifer systems, which are, from shallow to deep, the surficial aquifer system, the Brunswick aquifer system, and the Floridan aquifer system. In the Atlantic Coastal Plain, the surficial aquifer system consists of Miocene and younger interlayered sand, silt, clay, and thin limestone beds (Clarke et al, 2010). The surficial aquifer system is unconfined and generally at a depth less than 80 feet below ground surface.

The surficial aquifer is underlain by a confining unit that separates it from the Brunswick aquifer. The confining unit consists of silty clay and dense thin, phosphatic Miocene limestone. The Oligocene to Miocene Brunswick aquifer consists of two water-bearing zones. The upper Brunswick and lower Brunswick aquifers are separated by a low permeability, sandy phosphatic clay confining unit. The Brunswick aquifer is separated from the Upper Floridan aquifer with the Upper Confining unit and a non-water bearing limestone (NWBL) layer. The Floridan aquifer is confined by the overlying clay and NWBL layers.

1.3 Site Geology and Hydrogeologic Setting

The sediments immediately underlying the Site are part of the regional surficial aquifer system described previously and consist of variable interbedded sands, silts, and clay comprising a near-surface aquifer system (SCS, 1998). Though complex with subtle distinctions, approximately 50 feet of the near-surface aquifer system (soil) can be divided into four units as described below:

- Upper Sands and Topsoil
- Unit 1 Uppermost Aquifer: Silty Fine Sand
- Unit 2 Low Permeability Zone: Interbedded Sand, Silt, and Clay
- Unit 3 Lower Sand Aquifer: Silty and/or Clayey Fine to Medium Sand

Unit 1 comprises the water-bearing soil unit monitored at the Site and has a thickness ranging from approximately 22 to 28 feet across GRL. Although Units 1 through 3 are classified as the surficial aquifer system, layers of lower permeability may be present in the surficial aquifer system (Clarke, Hacke, and Peck 1990; SCS 1998). Generally, groundwater in the near-surface aquifer system flows from north to south at GRL but is influenced by topography. Groundwater elevations observed across the Site and adjacent landfills suggest that hydraulic communication exists between Units 1, 2, and 3. Unit 2 has a lower permeability than Units 1 and 3 and locally may act as an impediment to downward migration, potentially creating perched water within Unit 1 or impeding migration within the near-surface aquifer system. Unit 2 does not appear to be continuous across the Site such that it creates distinct groundwater flow systems. The geologic and hydrogeologic conditions at GRL were described in detail in the ACM report (Anchor QEA 2020).

1.4 Groundwater Monitoring System

A groundwater monitoring plan was submitted in November 1999 and approved by GA EPD in January 2000. Pursuant to GA EPD Rule 391-3-4-.10(6)(a) and 40 CFR § 257.91, a comprehensive monitoring system was designed to monitor groundwater passing the waste boundary of GRL within the uppermost aquifer. Wells were located to serve as upgradient, sidegradient, and downgradient monitoring points based on groundwater flow direction (Table 1, Monitoring Well Network Summary).

As part of the assessment monitoring program, assessment wells were installed in December 2020 and January 2021. Pursuant to GA EPD Rule 391-3-4-.10(6)(a) and 40 CFR §

257.95(g)(1)(iv), the wells will be sampled in addition to the compliance monitoring wells as part of the ongoing assessment groundwater monitoring program.

2.0 GROUNDWATER MONITORING ACTIVITIES

The following describes monitoring-related activities performed at the Site from July 2024 through December 2024 (the reporting period) and discusses any change in status of the monitoring program.

2.1 Monitoring Well Installation/Maintenance

There were no changes to the groundwater monitoring system during the current reporting period; the detection monitoring system remained the same as in the previous reporting year and is shown in Figure 2.

Monitoring wells are inspected semiannually to determine if any repairs or corrective actions are necessary to meet the requirements of the Georgia Water Well Standards Act (O.C.G.A. § 12-5-134(5)(d)(vii)). The well inspection checklists completed during the August 2024 semiannual sampling event are included in Appendix A, Laboratory Analytical and Field Sampling Reports. The documentation was performed under the direction of a professional geologist registered in the State of Georgia.

2.2 Assessment Monitoring Program

Georgia Power has initiated an assessment monitoring program for CCR Appendix IV parameters. A notification for the implementation of assessment monitoring under GA EPD Rule 391-3-4-.10(6) was submitted on November 13, 2019. The facility had previously implemented an assessment monitoring program for an Appendix II metal (arsenic) included in its state permit. Current identified SSLs of Appendix IV parameters exceeding their respective groundwater protection standards (GWPS) at GRL are arsenic at GWC-15, GWC-16, and GWC-20 and molybdenum in GWB-4R, GWC-16, and GWC-20.

Table 2, Groundwater Event Summary, presents a summary of the groundwater sampling events completed at the Site during the reporting period. A semiannual assessment monitoring event was completed in August 2024. Groundwater samples were collected for the state-specific list of Appendix I/II metals specified in the permit and all Appendix III and Appendix IV parameters. A summary of the parameters required by Appendix III, Appendix IV, and the existing permit is provided in Table 3, Summary of Required Groundwater Monitoring Parameters. Samples were collected from each well in the detection monitoring system, as well as four assessment wells, shown on Figure 2.

Details of these events and analytical results are discussed in Section 3, and the statistical results are discussed in Section 4. Results of sampling activities conducted during the reporting period are presented in Appendix A.

2.3 Assessment of Corrective Measures

Based on statistical analysis of assessment monitoring results presented in the 2020 Annual Groundwater Monitoring and Corrective Action Report, a Notice of ACM was placed in the operating record on July 9, 2020 for the State CCR Rule. An ACM for arsenic was previously established under GA EPD Rule 391-3-4-.14. An ACM completed by Anchor QEA, LLC in December 2020 (Anchor QEA, 2020) under GA EPD Rule 391-3-4-.10(6)(a) and 40 CFR § 257.96

supersedes the previous ACM and incorporates arsenic and an additional Appendix IV parameter, molybdenum. A *Draft Remedy Selection Report* was submitted for GA EPD review on July 31, 2023 (Anchor QEA 2023a).

The *Draft Remedy Selection Report* presents the geochemical conceptual site model, which indicates groundwater migrating onto the Site from the east is impacted by leachate from the adjacent Clifton Landfill. The impacted groundwater from Clifton Landfill's leachate contains elevated dissolved organic carbon, which enhances anaerobic conditions in the southeast portion of the Site. Anaerobic or reducing groundwater conditions dissolve iron oxides, which are attenuating arsenic and molybdenum, thereby releasing arsenic and molybdenum to groundwater that is coprecipitated with iron oxide farther downgradient as groundwater conditions become more aerobic.

2.4 Additional Sampling

As summarized in previous reporting, an active above-ground leachate seep has been observed on aerial imagery on the north side of the Clifton Landfill since approximately 2009. The seepage flows onto the Site near GWA-7. An attempt was made to sample the leachate seepage on the Site near GWA-7 during the August 2024 sampling event, and while the ground in this area was wet, a representative sample could not be collected.

3.0 SAMPLE METHODOLOGY AND ANALYSIS

The following sections describe the methods used to conduct groundwater monitoring at the Site.

3.1 Groundwater Flow Direction, Gradient, and Velocity

Prior to each sampling event, groundwater elevations are recorded from the certified detection well system, assessment wells, and piezometers at GRL. Groundwater elevations recorded during the monitoring events are summarized in Table 4, Summary of Groundwater Elevations. Groundwater elevation data were used to develop Figure 3, Potentiometric Surface Contour Map – August 2024. A potentiometric high exists near well GWA-7 in the northern portion of the Site and groundwater flows semi-radially from this high. In the southern portion of the Site, groundwater flows to the south and southeast. The groundwater flow pattern observed during the monitoring event is consistent with historical patterns.

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

Specifically:

Equation

$$v = \frac{K\,(dh/dl)}{P_e}$$

where:
v = groundwater velocity
K = hydraulic conductivity
dh/dl = hydraulic gradient
P_e = effective porosity

The groundwater flow velocity was 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; Freeze and Cherry, 1979). The groundwater flow velocity has been calculated and is tabulated on Table 5, Groundwater Flow Velocity Calculations – August 2024. The calculated maximum flow velocity was 0.30 feet per day during the August 2024 event.

3.2 Groundwater Sampling

Groundwater samples were collected using low-flow sampling procedures in accordance with 40 CFR § 257.93(a). Purging and sampling was performed using a peristaltic pump. Tubing was lowered into the well so that the intake was at the midpoint of the well screen (or as appropriate determined by the water level). Peristaltic pump samples were collected using new disposable polyethylene tubing. All non-disposable equipment was decontaminated before use and between well locations.

Monitoring wells were purged and sampled using low-flow sampling procedures. A SmarTroll or Aqua Troll (In-Situ field instruments) was used to monitor and record field water quality parameters (pH, specific conductance, oxidation-reduction potential [ORP], dissolved oxygen [DO], and temperature) during well purging prior to sampling. Turbidity was measured using a Hach 2100Q portable turbidimeter. Groundwater samples were collected when the following stabilization criteria were met:

- ± 0.1 standard units for pH.
- ± 10% for specific conductance.
- ± 10% for DO or 0.2 milligrams per liter (mg/L), whichever is greater where DO > 0.5 mg/L. No criterion applies if DO < 0.5 mg/L.
- Turbidity measurements less than 5 nephelometric turbidity units (NTU) or measured between 5 and 10 NTU following three additional hours of purging.

Once stabilization was achieved, samples were collected directly into appropriately preserved laboratory-supplied sample containers. Sample bottles were placed in ice-packed coolers and submitted to GEL Laboratories, LLC (GEL) of Charleston, South Carolina following chain-of-custody protocol. Stabilization logs and equipment calibration forms for each well during the reporting period are included in Appendix A.

3.3 Laboratory Analyses

Analytical methods used for groundwater monitoring parameters are provided in laboratory reports in Appendix A. Analytical data collected in the monitoring events during the reporting period are summarized in Table 6, Groundwater Analytical Data Summary – August 2024.

Laboratory analyses were performed by GEL. GEL is accredited by the National Environmental Laboratory Accreditation Program (NELAP) and maintains a NELAP certification for all parameters analyzed for this project. In addition, GEL is certified to perform analysis by the State of Georgia. Laboratory reports and chain-of-custody records for the monitoring event are presented in Appendix A.

3.4 Quality Assurance and Quality Control

During each sampling event, quality assurance/quality control (QA/QC) samples are collected at a rate of one QA/QC sample per every 10 groundwater monitoring samples. Equipment blanks (where non-dedicated sampling equipment is used) and duplicate samples were collected during each sampling event. QA/QC sample data were evaluated during data validation and are included in Appendix A.

Groundwater quality data in this report were validated in accordance with USEPA guidance (USEPA, 2011) and the analytical methods. Data validation generally consisted of reviewing sample integrity, holding times, laboratory method blanks, laboratory control samples, matrix

spike/matrix spike duplicate recoveries and relative percent differences (RPDs), post digestion spikes, laboratory and field duplicate RPDs, field and equipment blanks, and reporting limits. Where appropriate, validation qualifiers and flags are applied to the data using USEPA procedures as guidance (USEPA, 2017). The validated data are considered usable for meeting project objectives. The associated data validation reports are provided in Appendix A, along with the laboratory reports.

4.0 STATISTICAL ANALYSIS

The statistical method used at GRL was developed by Groundwater Stats Consulting, LLC (GSC), using methodology presented in *Statistical Analysis of Groundwater Monitoring Data at RCRA Facilities, Unified Guidance*, March 2009, USEPA 530/ R-09-007 (USEPA, 2009).

Statistical analysis of the reporting period groundwater monitoring data was performed by GSC following the appropriate certified statistical methodology for GRL. Sanitas groundwater statistical software was used to screen the data and 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.

Appendix I and Appendix III statistical analysis was performed to determine if groundwater has returned to background levels. Appendix II and Appendix IV parameters were evaluated to determine if concentrations statistically exceeded the established GWPS.

A summary of the statistical methodology used at GRL for routine groundwater monitoring is provided in Table 7, Statistical Method Summary. Statistical analysis methods and results are provided in Appendix B, Statistical Analysis Reports, and summarized in the following sections.

4.1 Appendix I and III Statistical Methods

Based on guidance from GA EPD, statistical tests used to evaluate the groundwater monitoring data consist of interwell prediction limits (PLs) combined with a 1-of-2 verification resample plan for each of the Appendix I and III parameters. Interwell PLs are constructed using pooled data from upgradient wells GWA-7 and GWA-8 to establish a background limit for an individual parameter. The most recent sample from each downgradient well is compared to the background limit to determine whether there are statistically significant increases (SSIs). An "initial exceedance" occurs when an Appendix I or III parameter reported in a downgradient groundwater compliance monitoring well exceeds the parameter's associated PL. The 1-of-2 resample plan allows for collection of an independent resample. A confirmed exceedance is noted only when the resample verifies the initial exceedance. If the resample result is less than its relevant PL, the initial exceedance is not verified.

4.2 Appendix II and IV Statistical Methods

Appendix II parameters and Appendix IV parameters were sampled during the semiannual assessment sampling event. To statistically compare groundwater data to GWPS, confidence intervals are constructed for each of the detected Appendix II and IV parameters in each downgradient well. Those confidence intervals are compared to the respective GWPS. Only when the entire confidence interval is above a GWPS is the well/parameter pair considered to exceed its GWPS. If there is an exceedance of the established standard, an SSL exceedance is identified. In accordance with Section 21.1.1 of the Unified Guidance (USEPA, 2009), four independent data points are the minimum population size recommended to construct confidence intervals required to assess SSLs for Appendix IV parameters. Due to non-routine (or ACM investigation)

sampling, some Appendix IV parameters at a well location have differing numbers of analytical data points. Established GWPS are used for statistical comparison of Appendix II and Appendix IV parameters as presented in Table 8, Summary of Background Levels and GWPS.

4.3 Statistical Analyses Results

Based on review of the Appendix I and III statistical analyses presented in Appendix B, parameters have not returned to background levels and assessment monitoring should continue pursuant to GA EPD Rule 391-3-4-.10(6)(a).

Based on a review of the statistical analysis presented in Appendix B, the following parameters were found to statistically exceed the GWPS for the reporting period:

- Arsenic: GWC-15, GWC-16, and GWC-20
- Molybdenum: GWB-4R, GWC-16 and GWC-20

Based on GA EPD guidance, groundwater trends at wells with SSLs were further evaluated by GSC using the Sen's Slope/Mann Kendall trend tests. The full report generated from the analyses is provided in Appendix B. Statistically significant trends were identified for the following well/parameter pairs:

- Increasing trends were identified for arsenic at GWC-15 and GWC-16 and molybdenum at GWB-4R.
- No statistically significant trends were identified for molybdenum at GWC-16 nor for molybdenum and arsenic at GWC-20.

The SSL results are consistent with those presented in the *2024 Annual Groundwater Monitoring and Corrective Action Report* (ACC, 2024). An ACM report was submitted in December 2020 for arsenic and molybdenum, per GA EPD Rule 391-3-4-.10(6)(a) and 40 CFR § 257.96, and potential corrective measures are under evaluation as presented in the *Draft Remedy Selection Report* (Anchor QEA 2023a).

5.0 NATURE AND EXTENT

Wells MW-23D and MW-24D vertically delineate arsenic and molybdenum at wells GWC-20 and GWC-16, respectively. Well MW-25D vertically delineates arsenic at GWC-15. Well MW-26D vertically delineates molybdenum at GWB-4R.

In an attempt to delineate offsite impacts to the south of GWC-15 and GWC-16, groundwater monitoring data from the adjacent SRIL site was reviewed (CEC, 2024). Data from the August 2024 semiannual monitoring event at SRIL show that arsenic concentrations in groundwater samples collected from monitoring wells GWA-6 and GWA-12B located along the northern boundary of SRIL, due south of the Site, are less than the analytical method reporting limit (0.01 mg/L; CEC, 2024). These results suggest the arsenic impacts have not migrated far off-site. Molybdenum, however, is not a routine parameter analyzed at SRIL.

Although not statistically delineated on-site, the August 2023 and January 2024 results showed molybdenum was delineated on-site during those events. However, the August 2024 molybdenum result for monitoring well GWC-16 was above the site GWPS. As was noted in the transport model previously submitted in support of horizontal delineation (Anchor QEA, 2021), concentrations of molybdenum have likely migrated a short distance beneath SRIL but have not reached the southern boundary of SRIL.

The interpreted extent of arsenic and molybdenum from the August 2024 semiannual sampling event are illustrated in Figure 4a, Isoconcentration Map: Arsenic – August 2024 and Figure 4b, Isoconcentration Map: Molybdenum – August 2024. SRIL representatives were notified of the arsenic and molybdenum detections in neighbor notification correspondence dated September 25, 2020.

6.0 MONITORING PROGRAM STATUS

Pursuant to 40 CFR § 257.96(b), Georgia Power will continue to monitor groundwater at the Site in accordance with the assessment monitoring program regulations of 40 CFR § 257.95 while ACM efforts are implemented to evaluate SSL concentrations of arsenic and molybdenum. Pursuant to 40 CFR § 257.94(e)(1), Georgia Power will continue assessment monitoring in accordance with 40 CFR § 257.95. Pursuant to 40 CFR § 257.95(g)(1)(iv), the assessment wells will continue to be sampled as part of the ongoing semiannual assessment groundwater monitoring program.

6.1 Assessment of Corrective Measures

A *Draft Remedy Selection Repor*t was submitted to GA EPD on July 31, 2023 (Anchor QEA 2023a). The report summarizes:

- The current conceptual site model applicable to evaluating groundwater corrective measures proposed in the ACM Report (Anchor QEA 2020);
- An evaluation of each corrective measure retained for further consideration following the completed investigations; and,
- An evaluation of corrective measure options using the comparative criteria such as long- and short-term effectiveness and protectiveness, source control effectiveness, and ease of implementation. The Draft Remedy Selection Report presents geochemical approaches (in-situ injections) coupled with monitored natural attenuation as the proposed groundwater remedy. Success of this remedy is dependent on control of leachate-impacted groundwater from Clifton Landfill, without which natural attenuation and in-situ injections will likely not be effective to achieve GWPSs.

6.2 Annual Potable Well Survey

As requested by GA EPD, the potable well survey within a 2-mile radius of the Site was updated on January 6, 2025. The survey conducted by Environmental Data Resources (EDR) is included in Appendix C, Potable Well Survey. Additional state, county, and online records outside of the EDR survey were also reviewed. No new wells were identified in the 2025 well survey.

7.0 CONCLUSIONS AND FUTURE ACTIONS

This *2024 Semiannual Groundwater Monitoring and Corrective Action Report* was prepared to fulfill the requirements of GA EPD Rule 391-3-4-.10(6)(c). Statistical evaluations of the groundwater monitoring data identified the presence of SSLs of arsenic in three wells (GWC-15, GWC-16, and GWC-20) and molybdenum in three wells (GWB-4R, GWC-16, and GWC-20) for the August 2024 event. The arsenic SSL in GWC-15, the arsenic and molybdenum SSLs in GWC-16 and GWC-20, and the molybdenum SSL in GWB-4R are vertically delineated below the GWPS by assessment wells MW-23D through MW-26D. Arsenic is horizontally delineated below the GWPS by upgradient SRIL wells GWA-6 and GWA-12B, just south of the Site. The current reporting period results show molybdenum as delineated just beyond the site boundary beneath SRIL. Georgia

Power will continue to monitor groundwater under the assessment monitoring program as ongoing assessment of corrective measures are evaluated. A *Draft Remedy Selection Report*, which summarizes the evaluation and proposed selection of a corrective measure, or measures, was submitted to GA EPD on July 31, 2023 (Anchor QEA 2023a).

The next semiannual assessment sampling event is planned to begin in January 2025. The semiannual assessment monitoring event will include sampling and analysis of all Appendix III and IV parameters along with the state-specific list of Appendix I/II metals specified in the permit. Any updates regarding the remedy selection will continue to be documented in the groundwater monitoring and corrective action reports.

8.0 REFERENCES

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TABLES

Grumman Road Private Industrial Landfill
Chatham County, Georgia
2024 Semiannual Groundwater Monitoring and Corrective Action Report

Table 1
Monitoring Well Network Summary
Georgia Power Company
Grumman Road Private Industrial Landfill
Chatham County, GA

Well ID	Compliance Purpose	Location	Northing	Easting	Ground Surface Elevation (feet)	Top of Casing Elevation (feet)	Top of Screen Elevation (feet)	Bottom of Screen Elevation (feet)	Total Well Depth (feet below top of casing)	Groundwater Zone Screened	Installation Date
GWA-7	Detection	Upgradient	780887.38	960560.31	43.97	46.58	30.97	25.97	20.91	SM	07/29/1998
GWA-8	Detection	Upgradient	781167.00	960460.57	43.51	46.20	31.31	26.31	20.19	SM	07/29/1998
GWB-4R	Detection	Sidegradient	779975.18	960777.56	46.17	49.04	32.47	22.47	26.87	SM	10/09/2018
GWB-5R	Detection	Sidegradient	780293.66	960693.28	44.72	47.21	31.02	21.02	26.49	SM	10/09/2018
GWB-6R	Detection	Sidegradient	780572.76	960617.28	44.13	46.99	34.43	24.43	22.86	SM	10/08/2018
GWC-1	Detection	Downgradient	779573.38	960870.73	46.49	49.72	27.69	22.69	27.33	SM, SP	03/10/1997
GWC-2	Detection	Downgradient	779433.23	960360.53	47.44	51.22	24.44	19.44	32.08	SM, SP	03/11/1997
GWC-9	Detection	Downgradient	781006.70	959961.26	42.98	46.57	23.93	18.93	27.94	SM	07/24/1998
GWC-11	Detection	Downgradient	780352.21	960122.47	45.35	48.81	31.25	26.25	22.86	SP	07/23/1998
GWC-12	Detection	Downgradient	780098.49	960182.06	43.74	46.89	25.09	20.09	27.10	SM	07/22/1998
GWC-13	Detection	Downgradient	779737.50	960276.20	44.77	47.68	28.67	23.67	24.31	SM	07/22/1998
GWC-14	Detection	Downgradient	779112.24	960431.34	47.22	50.06	28.12	23.12	27.24	SM	07/22/1998
GWC-15	Detection	Downgradient	778948.56	960666.68	44.73	47.36	25.63	20.63	27.03	SM	07/22/1998
GWC-16	Detection	Downgradient	779034.89	960963.23	44.34	47.29	23.64	18.64	28.95	SM-SC	07/21/1998
GWC-17	Detection	Downgradient	781419.25	960048.28	40.82	43.60	25.26	20.26	23.64	SM	1998
GWC-20	Detection	Downgradient	779293.82	960956.67	46.22	49.43	29.22	24.22	25.51	SM	05/07/2010
GWC-21	Detection	Downgradient	779030.28	960948.11	44.10	47.18	28.10	23.10	24.38	SM	05/07/2010
GWC-22	Detection	Downgradient	780712.09	960063.85	43.21	46.25	32.31	27.31	19.24	SM	05/07/2010
GWC-10	Piezometer	Downgradient	780703.08	960037.03	44.05	46.77	31.00	26.00	21.07	SM	07/24/1998
MW-23D	Assessment	Downgradient	779279.75	960955.66	46.51	49.46	-8.19	-13.19	62.95	SM	12/17/2020
MW-24D	Assessment	Downgradient	779042.22	960971.12	44.67	47.86	-12.03	-17.03	65.19	SM	01/04/2021
MW-25D	Assessment	Downgradient	778944.28	960654.43	44.70	47.67	-16.00	-21.00	68.97	SM	01/06/2021
MW-26D	Assessment	Downgradient	779993.34	960774.89	45.77	48.72	-14.93	-19.93	68.95	SM, SC	01/10/2021
MW-27D	Piezometer	Downgradient	779558.89	960874.59	47.06	49.80	-16.64	-21.64	71.74	SM, SC	01/08/2021

Notes:
Elevations shown are in datum NAVD88, which indicates feet in elevation referenced to the North American Vertical Datum 1988.
Well screen elevations are calculated by subtracting the depths to top and bottom of the well screen from the ground surface elevation.
Northings and Eastings are Georgia State Plane East Zone in feet relative to North American Datum 1983.
Elevations and coordinates were surveyed on March 22, 2023.
Groundwater Zone Screened designations are ASTM D2487-17e1 Standard Practice for Classification of Soils for Engineering Purposes (Unified Soil Classification System), where applicable.

Table 2
Groundwater Event Summary
Georgia Power Company
Grumman Road Private Industrial Landfill
Chatham County, GA

Well ID	Hydraulic Location	Compliance Purpose	August 19 - 22, 2024
			Semiannual Assessment Event
GWA-7	Upgradient	Detection	X
GWA-8	Upgradient	Detection	X
GWB-4R	Sidegradient	Detection	X
GWB-5R	Sidegradient	Detection	X
GWB-6R	Sidegradient	Detection	X
GWC-1	Downgradient	Detection	X
GWC-2	Downgradient	Detection	X
GWC-9	Downgradient	Detection	X
GWC-11	Downgradient	Detection	X
GWC-12	Downgradient	Detection	X
GWC-13	Downgradient	Detection	X
GWC-14	Downgradient	Detection	X
GWC-15	Downgradient	Detection	X
GWC-16	Downgradient	Detection	X
GWC-17	Downgradient	Detection	X
GWC-20	Downgradient	Detection	X
GWC-21	Downgradient	Detection	X
GWC-22	Downgradient	Detection	X
MW-23D	Downgradient	Assessment	X
MW-24D	Downgradient	Assessment	X
MW-25D	Downgradient	Assessment	X
MW-26D	Downgradient	Assessment	X

Notes:
X - Indicates well sampled during event
Semiannual Assessment Event includes Appendix I, II, III and IV parameters.

Table 3
Summary of Required Groundwater Monitoring Parameters
Georgia Power Company
Grumman Road Private Industrial Landfill
Chatham County, GA

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

Table 4
Summary of Groundwater Elevations
Georgia Power Company
Grumman Road Private Industrial Landfill
Chatham County, GA

		August 2024	
Well ID	Top of Casing Elevation (feet)	Depth to Water (feet)	Groundwater Elevation (feet)
GWA-7	46.58	5.54	41.04
GWA-8	46.20	6.11	40.09
GWB-4R	49.04	13.92	35.12
GWB-5R	47.21	8.52	38.69
GWB-6R	46.99	6.60	40.39
GWC-1	49.72	17.96	31.76
GWC-2	51.22	16.88	34.34
GWC-9	46.57	6.88	39.69
GWC-10	46.77	7.79	38.98
GWC-11	48.81	10.08	38.73
GWC-12	46.89	9.80	37.09
GWC-13	47.68	11.54	36.14
GWC-14	50.06	17.40	32.66
GWC-15	47.36	17.91	29.45
GWC-16	47.29	19.52	27.77
GWC-17	43.60	4.85	38.75
GWC-20	49.43	19.96	29.47
GWC-21	47.18	19.26	27.92
GWC-22	46.25	7.10	39.15
MW-23D	49.46	21.60	27.86
MW-24D	47.86	21.65	26.21
MW-25D	47.67	19.53	28.14
MW-26D	48.72	18.08	30.64
MW-27D	49.80	19.98	29.82

Notes:
Elevations referenced to the North American Vertical Datum 1988.
Depths to water measured on August 19, 2024.

Table 5
Groundwater Flow Velocity Calculations - August 2024
Georgia Power Company
Grumman Road Private Industrial Landfill
Chatham County, GA

ATLANTIC COAST CONSULTING, INC.

Equation

$$v = \frac{K\,(dh/dl)}{P_e}$$

where: v = groundwater velocity
K = hydraulic conductivity
dh/dl = hydraulic gradient
P_e = effective porosity

Values Used in Calculation

	Value		Source
K =	2.7E-03 7.60	cm/sec ft/day	See note 1.
dh/dl_{max} =	12.62/1576 0.008	ft/ft unitless	hydraulic gradient from GWB-6R to GWC-16
dh/dl_{min} =	2.29/737 0.003	ft/ft unitless	hydraulic gradient from GWA-7 to GWC-17
P_e =	0.20		See note 2.

$$v_{max} = \frac{(7.60)\,(0.008)}{0.20} \qquad v_{max} = 0.30 \text{ ft/day}$$

$$v_{min} = \frac{(7.60)\,(0.003)}{0.20} \qquad v_{min} = 0.12 \text{ ft/day}$$

Notes

(1) Grumman Road Monofill Groundwater Monitoring Plan (SCS, 1999)

(2) Default value for silty sands from Interim Final RCRA Investigation (EPA, 1989)

Table 6
Groundwater Analytical Data Summary - August 2024
Georgia Power Company
Grumman Road Private Industrial Landfill
Chatham County, GA

	Sample Location	GWA-7	GWA-8	GWB-4R	GWB-5R	GWB-6R	GWC-1	GWC-2	GWC-9	GWC-11
	Sample Date	08/19/2024	08/21/2024	08/20/2024	08/21/2024	08/20/2024	08/20/2024	08/21/2024	08/21/2024	08/21/2024
ANALYTE	UNITS									
Appendix III										
Boron	mg/L	10.5	0.230	6.51	5.38	6.70	0.854	0.0230	0.0193	0.668
Calcium	mg/L	3.36	18.6	188	30.0	99.1	37.8	0.156 J	4.68	102
Chloride	mg/L	86.5	18.2	114	138	53.0	8.85	5.61	24.0	48.9
Fluoride	mg/L	0.0610 J	0.108	< 0.0330	0.0435 J	0.0768 J	< 0.0330	0.0532 J	0.134	< 0.0330
pH, Field	SU	6.19	4.59	6.28	6.00	5.62	5.83	4.76	4.64	5.02
Sulfate	mg/L	2.76	107	772	289	734	54.0	11.6	24.1	404
Total Dissolved Solids	mg/L	1540	165	1970	1160	1190	217	25.0	90.0	510
Appendix IV										
Antimony	mg/L	< 0.00100	< 0.00100	< 0.00100	< 0.00100	< 0.00100	< 0.00100	< 0.00100	< 0.00100	< 0.00100
Arsenic	mg/L	0.00287 J	< 0.00200	0.00377 J	0.00237 J	0.00560	0.0131	< 0.00200	< 0.00200	< 0.00200
Barium	mg/L	0.201	0.0576	0.214	0.0921	0.0280	0.0452	0.0506	0.149	0.126
Beryllium	mg/L	< 0.000200	< 0.000200	< 0.000200	< 0.000200	< 0.000200	< 0.000200	< 0.000200	0.000210 J	< 0.000200
Cadmium	mg/L	< 0.000300	< 0.000300	< 0.000300	< 0.000300	< 0.000300	< 0.000300	< 0.000300	< 0.000300	< 0.000300
Chromium	mg/L	0.0123	< 0.00300	0.00544 J	0.00542 J	0.00339 J	< 0.00300	< 0.00300	< 0.00300	< 0.00300
Cobalt	mg/L	0.00150	0.000413 J	0.00204	0.00156	0.0368	< 0.000300	< 0.000300	0.000960 J	< 0.000300
Combined Radium 226 + 228	pCi/L	3.16	4.29	7.26	2.85	6.12	0.492 U	2.07	2.54	5.48
Fluoride	mg/L	0.0610 J	0.108	< 0.0330	0.0435 J	0.0768 J	< 0.0330	0.0532 J	0.134	< 0.0330
Lead	mg/L	0.000838 J	< 0.000500	< 0.000500	0.000522 J	< 0.000500	< 0.000500	< 0.000500	< 0.000500	< 0.000500
Lithium	mg/L	< 0.00300	< 0.00300	0.0194	< 0.00300	< 0.00300	< 0.00300	< 0.00300	< 0.00300	< 0.00300
Mercury	mg/L	< 0.0000670	< 0.0000670	< 0.0000670	< 0.0000670	< 0.0000670	< 0.0000670	< 0.0000670	< 0.0000670	< 0.0000670
Molybdenum	mg/L	0.000468 J	< 0.000200	0.103	0.000577 J	0.000521 J	0.0160	< 0.000200	< 0.000200	0.000489 J
Selenium	mg/L	0.00709	< 0.00150	0.00381 J	0.00214 J	0.00254 J	0.00155 J	< 0.00150	< 0.00150	0.00627
Thallium	mg/L	< 0.000600	< 0.000600	< 0.000600	< 0.000600	< 0.000600	< 0.000600	< 0.000600	< 0.000600	< 0.000600
Required by Permit										
Vanadium	mg/L	0.125	< 0.00330	0.0189 J	0.0209	0.0155 J	< 0.00330	< 0.00330	< 0.00330	0.00332 J
Zinc	mg/L	0.00727 J	0.0123 J	0.00972 J	< 0.00330	0.0355	0.00917 J	< 0.00330	0.0137 J	0.0392

Notes:
1. mg/L - milligrams per liter
2. pCi/L - picocuries per liter
3. SU - Standard Units
4. < indicates the substance was not detected above the method detection limit (MDL). The value displayed is the MDL.
5. J - The result is an estimated concentration. "J" qualifiers are applied by the laboratory when the concentration reported is above the MDL, but below the laboratory reporting limit.
6. Radium data are a combination of radium isotopes 226 and 228. When results are reported below the MDC (Minimum Detectable Concentration), data is displayed with an accompanying U. The MDC varies depending upon the sample amount and elapsed time of the measurement.
7. Parameters required by permit are Appendix I/II parameters included to meet GA EPD Rule 391-3-4-.14 requirements.

Table 6
Groundwater Analytical Data Summary - August 2024
Georgia Power Company
Grumman Road Private Industrial Landfill
Chatham County, GA

	Sample Location	GWC-12	GWC-13	GWC-14	GWC-15	GWC-16	GWC-17	GWC-20	GWC-21	GWC-22
	Sample Date	08/21/2024	08/21/2024	08/21/2024	08/21/2024	08/21/2024	08/21/2024	08/21/2024	08/22/2024	08/21/2024
ANALYTE	UNITS									
Appendix III										
Boron	mg/L	9.95	0.233	0.0675	0.785	22.6	1.66	10.1	2.98	0.179
Calcium	mg/L	79.6	5.23	49.5	135	232	78.9	169	85.0	13.3
Chloride	mg/L	117	6.83	24.3	5.49	34.8	479	13.1	15.8	10.5
Fluoride	mg/L	0.194	0.0496 J	< 0.0330	< 0.0330	< 0.0330	0.642	0.168	< 0.0330	< 0.0330
pH, Field	SU	4.09	4.73	5.75	6.69	5.53	4.47	6.03	5.54	4.81
Sulfate	mg/L	602	44.4	71.5	34.2	1370	453	688	291	41.8
Total Dissolved Solids	mg/L	817	77.0	239	464	2100	1120	1210	517	81.0
Appendix IV										
Antimony	mg/L	< 0.00100	< 0.00100	< 0.00100	< 0.00100	< 0.00100	< 0.00100	< 0.00100	< 0.00100	< 0.00100
Arsenic	mg/L	< 0.00200	< 0.00200	< 0.00200	0.183	0.131	< 0.00200	0.423	0.00929	< 0.00200
Barium	mg/L	0.0236	0.0526	0.0355	0.0541	0.111	0.0254	0.226	0.291	0.0362
Beryllium	mg/L	0.000587	< 0.000200	< 0.000200	< 0.000200	< 0.000200	0.00186	< 0.000200	< 0.000200	< 0.000200
Cadmium	mg/L	< 0.000300	< 0.000300	< 0.000300	< 0.000300	< 0.000300	< 0.000300	< 0.000300	< 0.000300	< 0.000300
Chromium	mg/L	< 0.00300	< 0.00300	< 0.00300	< 0.00300	< 0.00300	< 0.00300	< 0.00300	< 0.00300	< 0.00300
Cobalt	mg/L	0.000768 J	< 0.000300	< 0.000300	< 0.000300	< 0.000300	0.00256	< 0.000300	< 0.000300	< 0.000300
Combined Radium 226 + 228	pCi/L	2.54	1.23 U	0.715 U	2.48	3.92	2.46	4.17	4.52	2.35
Fluoride	mg/L	0.194	0.0496 J	< 0.0330	< 0.0330	< 0.0330	0.642	0.168	< 0.0330	< 0.0330
Lead	mg/L	< 0.000500	< 0.000500	< 0.000500	< 0.000500	< 0.000500	< 0.000500	< 0.000500	< 0.000500	< 0.000500
Lithium	mg/L	< 0.00300	< 0.00300	< 0.00300	< 0.00300	< 0.00300	0.00567 J	< 0.00300	< 0.00300	< 0.00300
Mercury	mg/L	< 0.0000670	< 0.0000670	< 0.0000670	< 0.0000670	< 0.0000670	< 0.0000670	< 0.0000670	< 0.0000670	< 0.0000670
Molybdenum	mg/L	< 0.000200	< 0.000200	0.00505	0.0752	0.114	0.00354	0.506	0.0159	< 0.000200
Selenium	mg/L	< 0.00150	< 0.00150	0.00337 J	0.00314 J	0.00313 J	< 0.00150	0.00209 J	0.00594	< 0.00150
Thallium	mg/L	< 0.000600	< 0.000600	< 0.000600	< 0.000600	< 0.000600	< 0.000600	< 0.000600	< 0.000600	< 0.000600
Required by Permit										
Vanadium	mg/L	0.00869 J	< 0.00330	0.00380 J	0.00338 J	0.00407 J	< 0.00330	0.00558 J	0.00457 J	< 0.00330
Zinc	mg/L	0.00744 J	0.0168 J	< 0.00330	< 0.00330	< 0.00330	0.00660 J	< 0.00330	< 0.00330	0.0141 J

Notes:
1. mg/L - milligrams per liter
2. pCi/L - picocuries per liter
3. SU - Standard Units
4. < indicates the substance was not detected above the method detection limit (MDL). The value displayed is the MDL.
5. J - The result is an estimated concentration. "J" qualifiers are applied by the laboratory when the concentration reported is above the MDL, but below the laboratory reporting limit.
6. Radium data are a combination of radium isotopes 226 and 228. When results are reported below the MDC (Minimum Detectable Concentration), data is displayed with an accompanying U. The MDC varies depending upon the sample amount and elapsed time of the measurement.
7. Parameters required by permit are Appendix I/II parameters included to meet GA EPD Rule 391-3-4-.14 requirements.

Table 6
Groundwater Analytical Data Summary - August 2024
Georgia Power Company
Grumman Road Private Industrial Landfill
Chatham County, GA

	Sample Location	MW-23D	MW-24D	MW-25D	MW-26D
	Sample Date	08/21/2024	08/21/2024	08/21/2024	08/20/2024
ANALYTE	UNITS				
Appendix III					
Boron	mg/L	0.0276	0.0176	0.0175	0.0114 J
Calcium	mg/L	8.39	2.54	3.06	2.31
Chloride	mg/L	9.04	6.37	6.61	6.92
Fluoride	mg/L	0.0361 J	0.0370 J	0.216	0.0444 J
pH, Field	SU	6.20	6.12	6.02	5.72
Sulfate	mg/L	34.2	< 0.133	< 0.133	0.299 J
Total Dissolved Solids	mg/L	100	46.0	53.0	27.0
Appendix IV					
Antimony	mg/L	< 0.00100	< 0.00100	< 0.00100	< 0.00100
Arsenic	mg/L	< 0.00200	< 0.00200	< 0.00200	< 0.00200
Barium	mg/L	0.0642	0.0280	0.0253	0.0297
Beryllium	mg/L	< 0.000200	< 0.000200	< 0.000200	< 0.000200
Cadmium	mg/L	< 0.000300	< 0.000300	< 0.000300	< 0.000300
Chromium	mg/L	< 0.00300	< 0.00300	< 0.00300	< 0.00300
Cobalt	mg/L	< 0.000300	< 0.000300	< 0.000300	< 0.000300
Combined Radium 226 + 228	pCi/L	0.517 U	3.94	1.22 U	1.84
Fluoride	mg/L	0.0361 J	0.0370 J	0.216	0.0444 J
Lead	mg/L	< 0.000500	< 0.000500	< 0.000500	< 0.000500
Lithium	mg/L	< 0.00300	< 0.00300	< 0.00300	< 0.00300
Mercury	mg/L	< 0.0000670	< 0.0000670	< 0.0000670	< 0.0000670
Molybdenum	mg/L	< 0.000200	0.000894 J	< 0.000200	< 0.000200
Selenium	mg/L	< 0.00150	< 0.00150	< 0.00150	< 0.00150
Thallium	mg/L	< 0.000600	< 0.000600	< 0.000600	< 0.000600
Required by Permit					
Vanadium	mg/L	< 0.00330	< 0.00330	< 0.00330	< 0.00330
Zinc	mg/L	< 0.00330	< 0.00330	< 0.00330	0.0261

Notes:
1. mg/L - milligrams per liter
2. pCi/L - picocuries per liter
3. SU - Standard Units
4. < indicates the substance was not detected above the method detection limit (MDL). The value displayed is the MDL.
5. J - The result is an estimated concentration. "J" qualifiers are applied by the laboratory when the concentration reported is above the MDL, but below the laboratory reporting limit.
6. Radium data are a combination of radium isotopes 226 and 228. When results are reported below the MDC (Minimum Detectable Concentration), data is displayed with an accompanying U. The MDC varies depending upon the sample amount and elapsed time of the measurement.
7. Parameters required by permit are Appendix I/II parameters included to meet GA EPD Rule 391-3-4-.14 requirements.

Table 7
Statistical Method Summary
Georgia Power Company
Grumman Road Private Industrial Landfill
Chatham County, GA

Statistical Method Summary		
Monitoring Well Network	Upgradient Wells	GWA-7 and GWA-8
	Sidegradient Wells	GWB-4R, GWB-5R, and GWB-6R
	Downgradient Wells	GWC-1, GWC-2, GWC-9, GWC-11, GWC-12, GWC-13, GWC-14, GWC-15, GWC-16, GWC-17, GWC-20, GWC-21, and GWC-22
CCR Monitoring Parameters	Appendix III (Detection Monitoring)	Boron, Calcium, Chloride, Fluoride, pH, Sulfate, and Total Dissolved Solids
	Appendix IV (Assessment Monitoring)	Antimony, Arsenic, Barium, Beryllium, Cadmium, Chromium, Cobalt, Combined Radium 226 + 228, Fluoride, Lead, Lithium, Mercury, Molybdenum, Selenium, and Thallium
GA EPD Permit Metals	Appendix I (Detection Monitoring)	Antimony, Arsenic, Barium, Chromium, Lead, Selenium, Vanadium, and Zinc
	Appendix II (Assessment Monitoring)	Antimony, Arsenic, Barium, Chromium, Lead, Selenium, Vanadium, and Zinc
Statistical Methodology	Data Screening Proposed Background	Evaluate outliers, trends, and seaonality when sufficient data are available
	Statistical Limits	Interwell statistical limits

Table 8
Summary of Background Levels and GWPS
Georgia Power Company
Grumman Road Private Industrial Landfill
Chatham County, GA

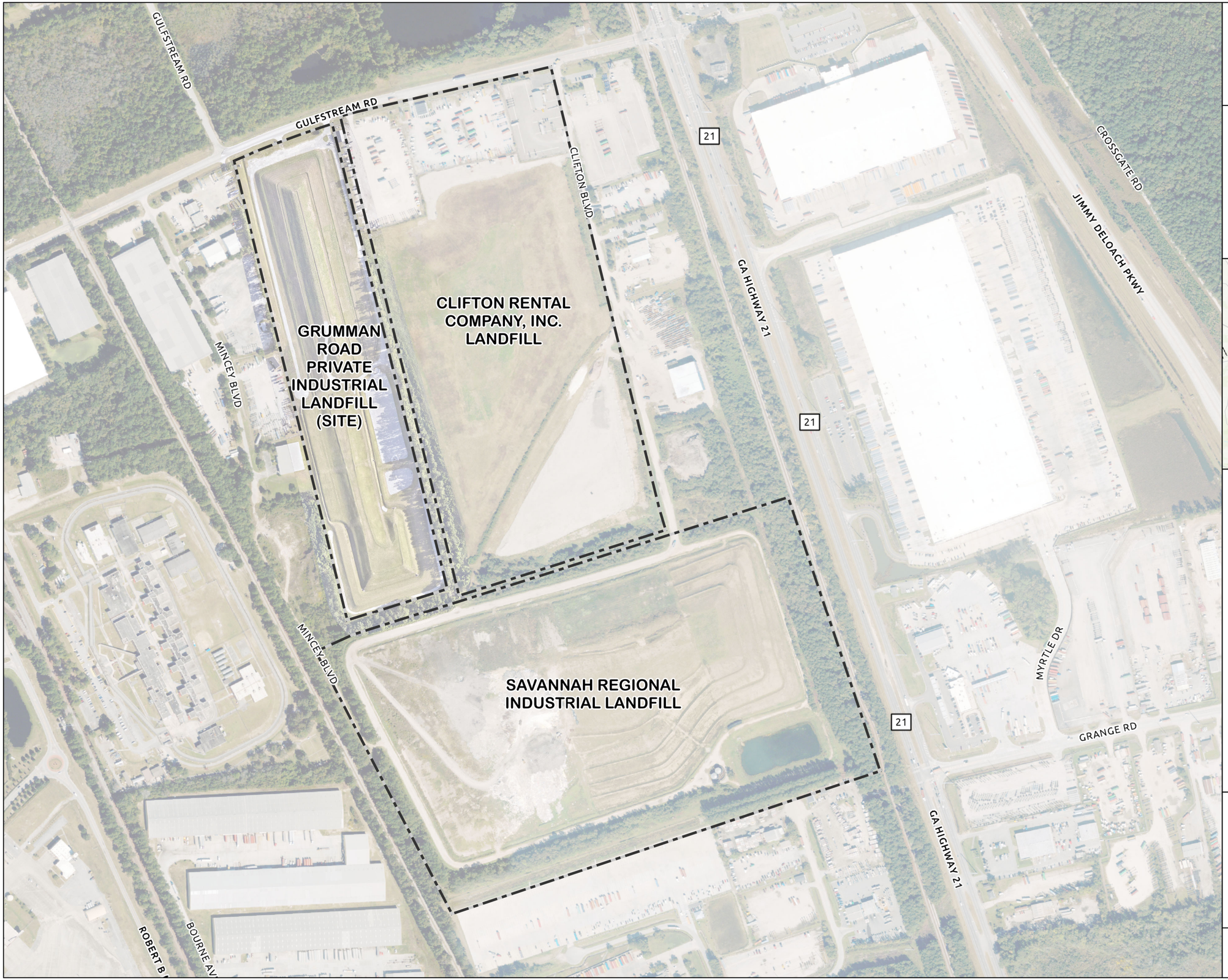
Analyte	Units	EPA MCL	Federal CCR Rule Specified GWPS	Background Level August 2024	GWPS August 2024
Antimony	mg/L	0.006	N/A	0.003	0.006
Arsenic	mg/L	0.01	N/A	0.029	0.029
Barium	mg/L	2	N/A	0.24	2
Beryllium	mg/L	0.004	N/A	0.0017	0.004
Cadmium	mg/L	0.005	N/A	0.001	0.005
Chromium	mg/L	0.1	N/A	0.068	0.1
Cobalt	mg/L	N/A	0.006	0.010	0.010
Combined Radium 226 + 228	pCi/L	5	N/A	11.27	11.27
Fluoride	mg/L	4	N/A	0.49	4
Lead	mg/L	N/A	0.015	0.013	0.015
Lithium	mg/L	N/A	0.04	0.03	0.04
Mercury	mg/L	0.002	N/A	0.0002	0.002
Molybdenum	mg/L	N/A	0.1	0.0098	0.1
Selenium	mg/L	0.05	N/A	0.044	0.05
Thallium	mg/L	0.002	N/A	0.002	0.002
Vanadium	mg/L	N/A	N/A	0.24	0.24
Zinc	mg/L	N/A	N/A	0.16	0.16

Notes:

1. mg/L - milligrams per liter
2. pCi/L - picocuries per liter
3. Background Level = Tolerance limits calculated from pooled upgradient well data through present.
4. MCL = Maximum Contaminant Level, per GA EPD Rule 391-3-5-.18(1)(a).
5. GWPS = Groundwater protection standard, per GA EPD Rule 391-3-4-.10(6)(a).
6. CCR Rule Specified GWPS as stipulated in 40 CFR § 257.95(h)(1-3) and incorporated into GA EPD's CCR Rule 391-3-4-.10(6)(a) on February 22, 2022.
7. N/A = Not applicable per GA EPD Rule 391-3-5-.18(1)(a) or 40 CFR § 257.95(h)(1-3).

FIGURES

Grumman Road Private Industrial Landfill
Chatham County, Georgia
2024 Semiannual Groundwater Monitoring and Corrective Action Report



Georgia Power

GEORGIA POWER COMPANY GRUMMAN ROAD PRIVATE INDUSTRIAL LANDFILL

LEGEND

APPROXIMATE PROPERTY BOUNDARY

NOTES

1. AERIAL IMAGERY PROVIDED BY GEORGIA POWER COMPANY, JULY 2024. ADDITIONAL PHOTOGRAPHY SOURCED FROM USGS EARTH EXPLORER, NAIP DATASET. DATED OCTOBER 17, 2023.
2. PROPERTY BOUNDARY SURVEYED BY GUNNIN LAND SURVEYING ON MARCH 22, 2023.

N

500 250 0 500

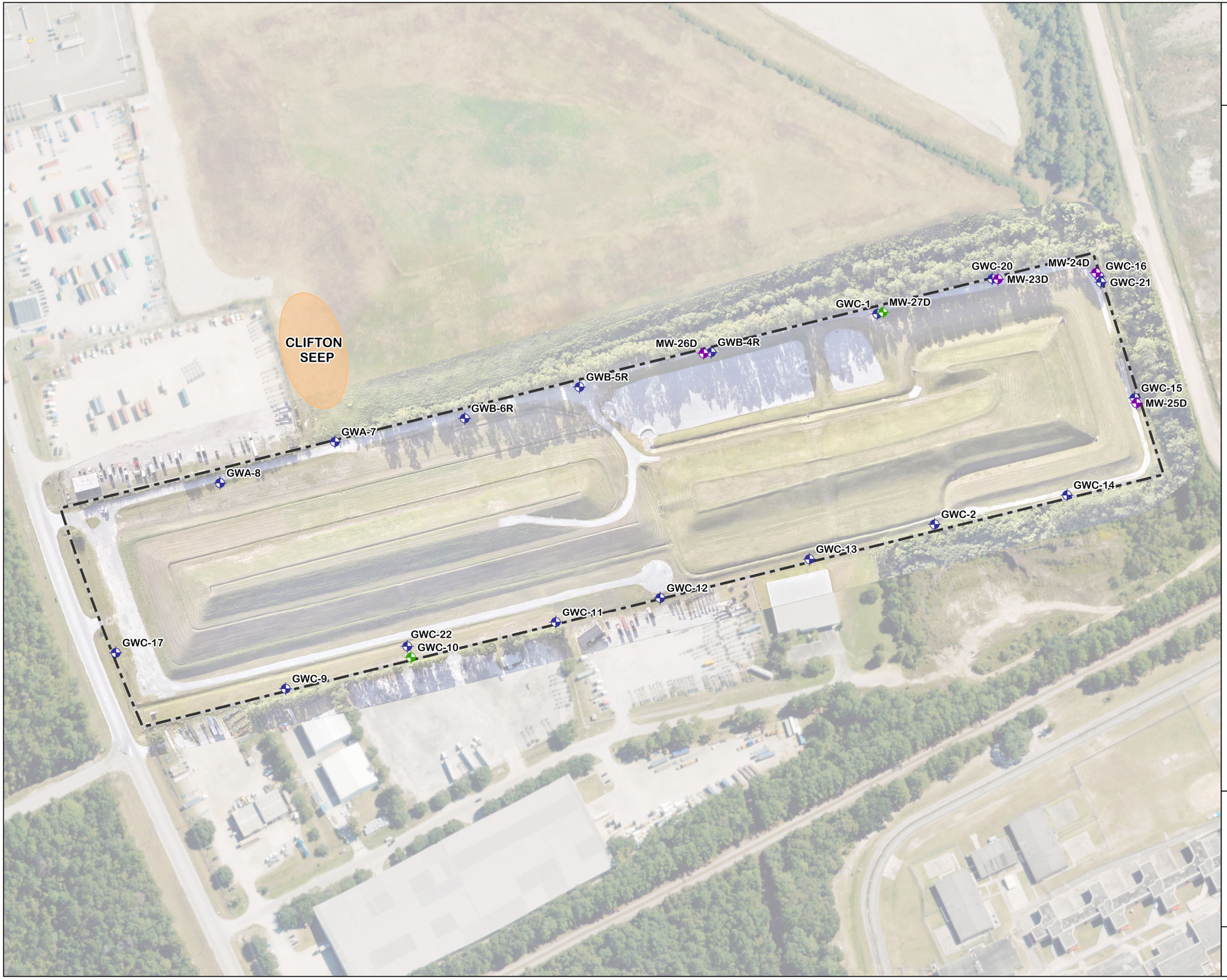
SCALE (IN FEET)

Atlantic Coast Consulting, Inc.

2024 SEMIANNUAL GROUNDWATER MONITORING AND CORRECTIVE ACTION REPORT

SITE LOCATION MAP

FIGURE 1



Georgia Power

GEORGIA POWER COMPANY
GRUMMAN ROAD
PRIVATE INDUSTRIAL LANDFILL

LEGEND

- PROPERTY BOUNDARY
- DETECTION MONITORING WELL
- PIEZOMETER
- ASSESSMENT WELL

NOTES

1. AERIAL IMAGERY PROVIDED BY GEORGIA POWER COMPANY, JULY 2024. ADDITIONAL PHOTOGRAPHY SOURCED FROM USGS EARTH EXPLORER, NAIP DATASET. DATED OCTOBER 17, 2023.
2. PROPERTY BOUNDARY SURVEYED BY GUNNIN LAND SURVEYING ON MARCH 22, 2023.

N

225 112.5 0 225

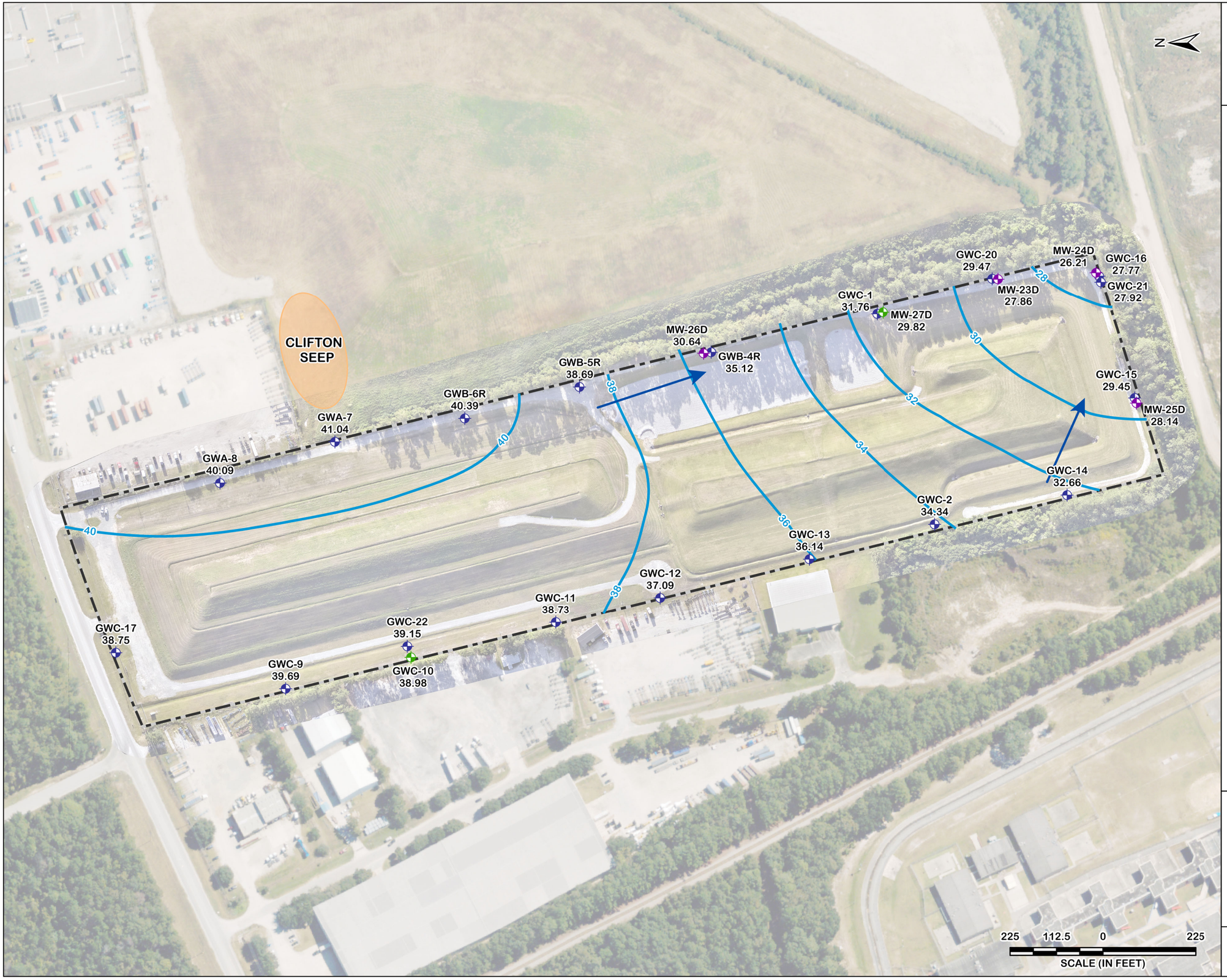
SCALE (IN FEET)

Atlantic Coast Consulting, Inc.

2024 SEMIANNUAL GROUNDWATER MONITORING AND CORRECTIVE ACTION REPORT

WELL LOCATION MAP

FIGURE 2



Georgia Power

GEORGIA POWER COMPANY
GRUMMAN ROAD
PRIVATE INDUSTRIAL LANDFILL

LEGEND

- PROPERTY BOUNDARY
- POTENTIOMETRIC SURFACE CONTOUR
- GROUNDWATER FLOW DIRECTION
- DETECTION MONITORING WELL
- PIEZOMETER
- ASSESSMENT WELL

NOTES

1. AERIAL IMAGERY PROVIDED BY GEORGIA POWER COMPANY, JULY 2024. ADDITIONAL PHOTOGRAPHY SOURCED FROM USGS EARTH EXPLORER, NAIP DATASET. DATED OCTOBER 17, 2023.
2. PROPERTY BOUNDARY SURVEYED BY GUNNIN LAND SURVEYING ON MARCH 22, 2023.
3. PIEZOMETERS AND ASSESSMENT WELLS NOT USED TO CALCULATE POTENTIOMETRIC SURFACE.

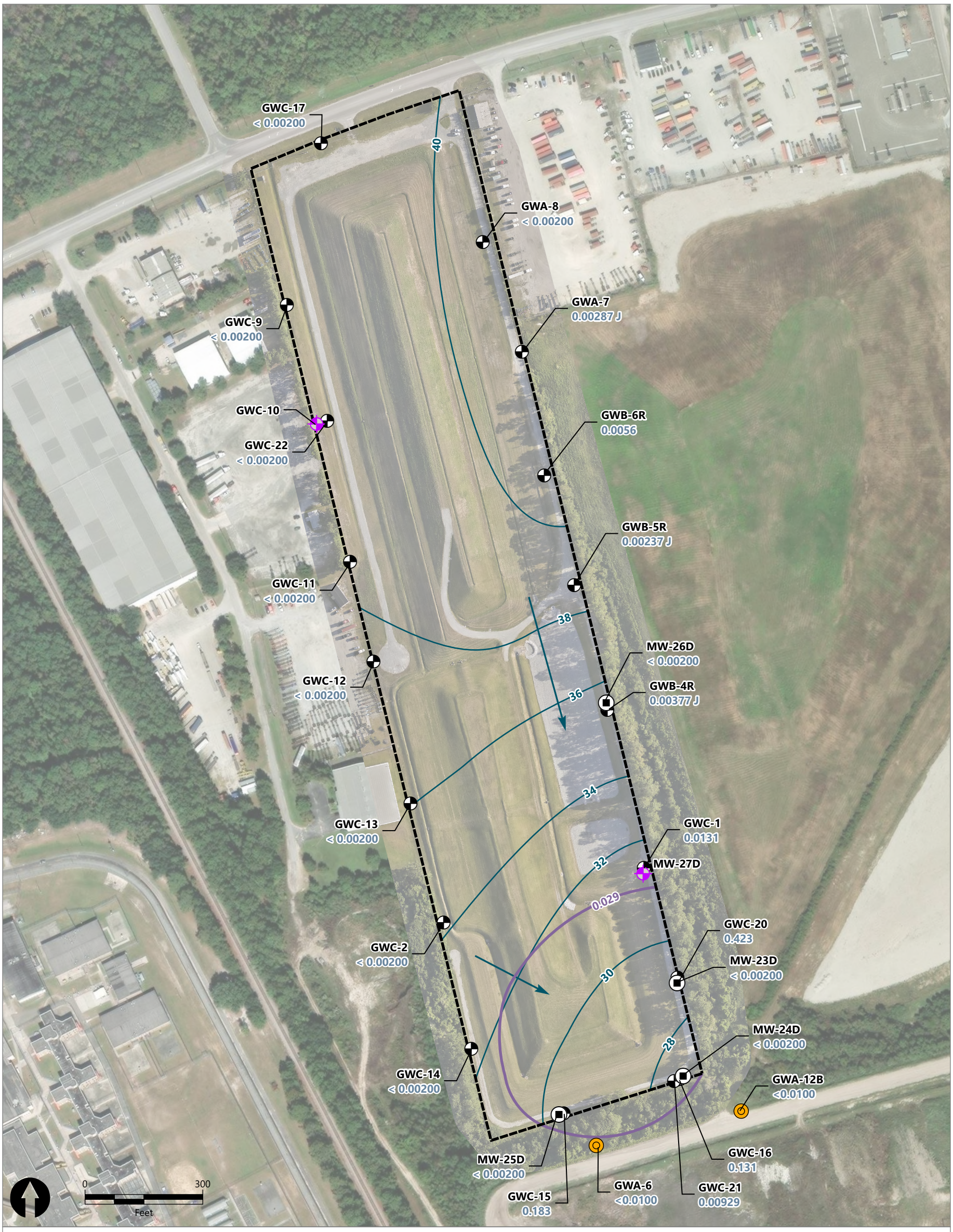
HARRY M. JONES IV
GEORGIA REGISTERED PROFESSIONAL GEOLOGIST
No. 2141

Atlantic Coast Consulting, Inc.

2024 SEMIANNUAL GROUNDWATER MONITORING AND CORRECTIVE ACTION REPORT

POTENTIOMETRIC SURFACE CONTOUR MAP - AUGUST 2024

FIGURE 3



LEGEND:

- Site Boundary
- Detection Monitoring Well
- Assessment Monitoring Well
- Piezometer
- SRIL Well
- Groundwater Flow Direction
- Groundwater Contour (feet NAVD88)
- Arsenic Isoconcentration Contour

Well ID
Arsenic Concentration

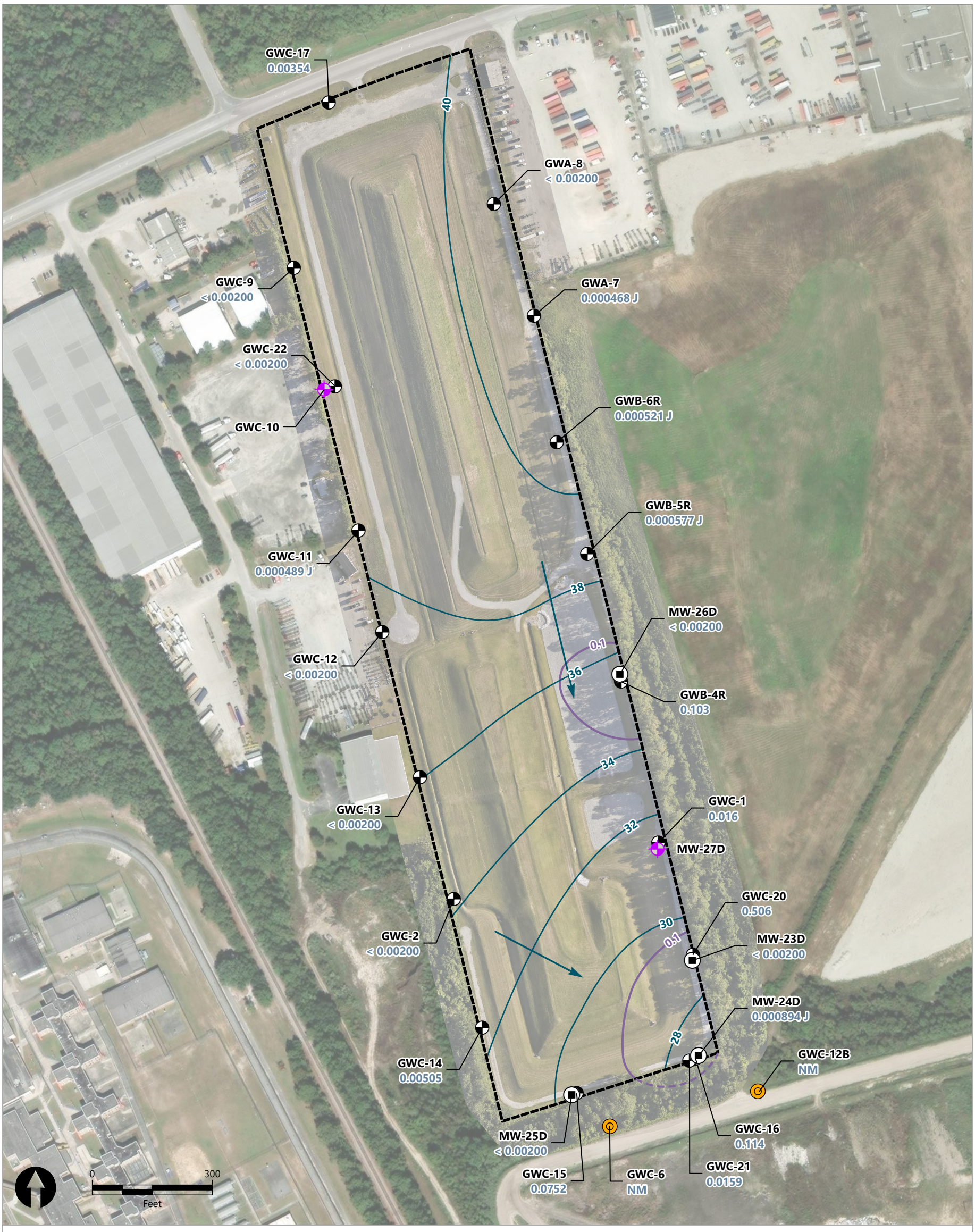
NOTES:
1. Arsenic and groundwater elevation data are from the August 2024 routine semiannual sampling event. Groundwater contours were provided by Atlantic Coast Consulting, Inc. *2024 Semiannual Groundwater Monitoring and Corrective Action Report*. Grumman Road Private Industrial Landfill. Prepared for Georgia Power Company. February 2025.
2. SRIL arsenic data (wells GWA-6 and GWA-12B) are from the SRIL August 2024 semiannual sampling event. (Source: Civil & Environmental Consultants, Inc., 2024. Letter to: Nicholas Webber, Republic Services. Regarding: 2nd 2024 Semiannual Groundwater Statistical Analysis Report. November 15, 2024)
3. Concentrations are reported in mg/L.
4. Site background concentration for arsenic is 0.029 mg/L and is the site-specific groundwater protection standard.
5. The groundwater protection standard was calculated using data through the August 2024 sampling event.
6. MW-23D, MW-24D, MW-25D, and MW-26D were not used to create the isocontour.
7. Piezometers may be sampled as needed for constituent specific site characterization.
8. Aerial imagery (July 2024) provided by Georgia Power Company. Imagery supplemented by basemap data: Esri 2024.

<: Indicates the substance was not detected above the relevant laboratory method detection limit.
J: Indicates the substance was detected at such low levels that the precision of the laboratory instruments could not produce a reliable value. Therefore, the value displayed is qualified by the laboratory as an estimated number.
mg/L: milligram per liter
NAVD88: North American Vertical Datum of 1988
SRIL: Savannah Regional Industrial Landfill

Publish Date: 2025/02/18, 3:42 PM | User: thartmann
Report Title: 2025 Semiannual Groundwater Monitoring and Corrective Action Report

ANCHOR QEA

Figure 4a
Isoconcentration Map: Arsenic – August 2024
2024 Semiannual Groundwater Monitoring and Corrective Action Report
Grumman Road Private Industrial Landfill, Port Wentworth, Georgia



LEGEND:

- Site Boundary
- Detection Monitoring Well
- Assessment Monitoring Well
- Piezometer
- SRIL Well
- Groundwater Flow Direction
- Groundwater Contour (feet NAVD88)
- Molybdenum Isoconcentration Contour
- Projected Molybdenum Isoconcentration Contour

Well ID
Molybdenum Concentration

NOTES:
1. Molybdenum and groundwater elevation data are from the August 2024 sampling event. Groundwater contours were provided by Atlantic Coast Consulting, Inc. *2024 Semiannual Groundwater Monitoring and Corrective Action Report*. Grumman Road Private Industrial Landfill. Prepared for Georgia Power Company. February 2025.
2. Concentrations are reported in mg/L.
3. The groundwater protection standard for molybdenum is 0.1 mg/L.
4. MW-23D, MW-24D, MW-25D, and MW-26D were not used to create the isocontour.
5. Piezometers may be sampled as needed for constituent specific site characterization.
6. Aerial imagery (July 2024) provided by Georgia Power Company. Imagery supplemented by basemap data: Esri 2024.

<: Indicates the substance was not detected above the relevant laboratory method detection limit.
J: Indicates the substance was detected at such low levels that the precision of the laboratory instruments could not produce a reliable value. Therefore, the value displayed is qualified by the laboratory as an estimated number.
mg/L: milligram per liter
NAVD88: North American Vertical Datum of 1988
NM: not measured
SRIL: Savannah Industrial Regional Landfill

Publish Date: 2025/02/18, 3:43 PM | User: thartmann
Report Title: 2025 Semiannual Groundwater Monitoring and Corrective Action Report

ANCHOR QEA

Figure 4b
Isoconcentration Map: Molybdenum – August 2024
2024 Semiannual Groundwater Monitoring and Corrective Action Report
Grumman Road Private Industrial Landfill, Port Wentworth, Georgia

APPENDICES

Grumman Road Private Industrial Landfill
Chatham County, Georgia
2024 Semiannual Groundwater Monitoring and Corrective Action Report

APPENDIX A

Laboratory Analytical and Field Sampling Reports

Grumman Road Private Industrial Landfill
Chatham County, Georgia
2024 Semiannual Groundwater Monitoring and Corrective Action Report

APPENDIX A

Laboratory Analytical Reports
August 2024 Monitoring Event

GEL Laboratories LLC
a member of The GEL Group INC

2040 Savage Road | Charleston, SC 29407
843.556.8171
gel.com

October 03, 2024

Kristen Jurinko
Georgia Power Company
241 Ralph McGill Blvd NE
Bin 10160
Atlanta, Georgia 30308

Re: Kraft - Grumman Road Landfill CCR Groundwater Compliance
Work Order: 682055

Dear Kristen Jurinko:

GEL Laboratories, LLC (GEL) appreciates the opportunity to provide the enclosed analytical results for the sample(s) we received on August 21, 2024. This revised data report has been prepared and reviewed in accordance with GEL's standard operating procedures. This report replaces the original version which is noted as SDG number 682055 in the left-hand footer of the data report. The revised package includes a Chain of Custody revision in which several samples were received by the lab but had all analyses canceled per consultant request.

The samples were delivered with proper chain of custody documentation and signatures. All sample containers arrived without any visible signs of tampering or breakage. There are no additional comments concerning sample receipt. The laboratory received the following sample(s):

Laboratory ID	Client ID	Matrix	Date Collected	Date Received
682055001	KRA-GWA-7	Ground Water	08/19/24 16:35	08/21/24 11:00
682055002	KRA-GWA-8	Ground Water	08/19/24 16:23	08/21/24 11:00
682055003	KRA-GWB-6R	Ground Water	08/20/24 09:33	08/21/24 11:00
682055004	KRA-GWB-4R	Ground Water	08/20/24 11:27	08/21/24 11:00
682055005	KRA-GWC-21	Ground Water	08/20/24 09:53	08/21/24 11:00
682055006	KRA-GWC-16	Ground Water	08/20/24 12:03	08/21/24 11:00
682055007	KRA-MW-26D	Ground Water	08/20/24 13:17	08/21/24 11:00
682055008	KRA-MW-24D	Ground Water	08/20/24 13:12	08/21/24 11:00
682055009	KRA-GWC-1	Ground Water	08/20/24 14:41	08/21/24 11:00
682055010	KRA-GWC-15	Ground Water	08/20/24 14:45	08/21/24 11:00
682055011	KRA-GWC-17	Ground Water	08/20/24 15:56	08/21/24 11:00
682055012	KRA-GRL-FD-01	Ground Water	08/20/24 12:00	08/21/24 11:00
682055013	KRA-GRL-FD-02	Ground Water	08/20/24 12:00	08/21/24 11:00
682055014	KRA-GRL-FB-01	Ground Water	08/20/24 10:30	08/21/24 11:00
682055015	KRA-GRL-EB-04	Ground Water	08/20/24 13:50	08/21/24 11:00

Test results for NELAP or ISO 17025 accredited tests are verified to meet the requirements of those standards, with any exceptions noted. The results reported relate only to the items tested and to the sample as received by the laboratory. These results may not be reproduced except as full reports without approval by the laboratory. Copies of GEL's accreditations and certifications can be found on our website at www.gel.com.

Prep Methods and Prep Dates

Method	Run Date ID
SW846 3005A	23-AUG-2024
SW846 7470A Prep	23-AUG-2024

Analysis Methods and Analysis Dates

Method	Run Date ID
EPA 300.0	23-AUG-2024
EPA 300.0	24-AUG-2024
EPA 300.0	26-AUG-2024
SM 2540C	23-AUG-2024
SM 2540C	27-AUG-2024
SW846 3005A/6020B	01-SEP-2024
SW846 3005A/6020B	02-SEP-2024
SW846 7470A	26-AUG-2024

Our policy is to provide high quality, personalized analytical services to enable you to meet your analytical needs on time every time. We trust that you will find everything in order and to your satisfaction. If you have any questions, please do not hesitate to call me at (843) 556-8171, ext. 4443.

Sincerely,

Alaina Pinnick

Alaina Pinnick
Project Manager

Purchase Order: GPC82177-0004
Enclosures

GEL LABORATORIES LLC
2040 Savage Road Charleston SC 29407 - (843) 556-8171 - www.gel.com

Certificate of Analysis Report
for

GPCC001 Georgia Power Company

Client SDG: 682055 GEL Work Order: 682055

The Qualifiers in this report are defined as follows:

* A quality control analyte recovery is outside of specified acceptance criteria

** Analyte is a Tracer compound

** Analyte is a surrogate compound

B Either presence of analyte detected in the associated blank, or MDL/IDL < sample value < PQL

J Value is estimated

N Metals--The Matrix spike sample recovery is not within specified control limits

N/A RPD or %Recovery limits do not apply.

U Analyte was analyzed for, but not detected above the MDL, MDA, MDC or LOD.

Where the analytical method has been performed under NELAP certification, the analysis has met all of the requirements of the NELAC standard unless qualified on the Certificate of Analysis.

The designation ND, if present, appears in the result column when the analyte concentration is not detected above the limit as defined in the 'U' qualifier above.

This data report has been prepared and reviewed in accordance with GEL Laboratories LLC standard operating procedures. Please direct any questions to your Project Manager, Alaina Pinnick.

Reviewed by Alaina Pinnick

GEL LABORATORIES LLC
2040 Savage Road Charleston SC 29407 - (843) 556-8171 - www.gel.com

Certificate of Analysis

Report Date: October 3, 2024

Company :	Georgia Power Company
Address :	241 Ralph McGill Blvd NE Bin 10160 Atlanta, Georgia 30308
Contact:	Kristen Jurinko
Project:	Kraft - Grumman Road Landfill CCR Groundwater Compliance

Client Sample ID:	KRA-GWA-7	Project:	GPCC00102
Sample ID:	682055001	Client ID:	GPCC001
Matrix:	WG		
Collect Date:	19-AUG-24 16:35		
Receive Date:	21-AUG-24		
Collector:	Client		

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Ion Chromatography												
EPA 300.0 Anions Liquid "As Received"												
Fluoride	J	0.0610	0.0330	0.100	mg/L		1	CH6	08/24/24	1355	2662125	1
Sulfate		2.76	0.133	0.400	mg/L		1					
Chloride		86.5	1.34	4.00	mg/L		20	CH6	08/26/24	1102	2662125	2
Mercury Analysis-CVAA												
7470 Cold Vapor Mercury, Liquid "As Received"												
Mercury	U	ND	0.0000670	0.000200	mg/L	1.00	1	JP2	08/26/24	1128	2661400	3
Metals Analysis-ICP-MS												
SW846 3005A/6020B "As Received"												
Boron		10.5	0.520	1.50	mg/L	1.00	100	BAJ	09/02/24	1226	2661558	4
Antimony	U	ND	0.00100	0.00300	mg/L	1.00	1	BAJ	09/01/24	1946	2661558	5
Arsenic	J	0.00287	0.00200	0.00500	mg/L	1.00	1					
Barium		0.201	0.000670	0.00400	mg/L	1.00	1					
Beryllium	U	ND	0.000200	0.000500	mg/L	1.00	1					
Cadmium	U	ND	0.000300	0.00100	mg/L	1.00	1					
Calcium		3.36	0.0800	0.200	mg/L	1.00	1					
Chromium		0.0123	0.00300	0.0100	mg/L	1.00	1					
Cobalt		0.00150	0.000300	0.00100	mg/L	1.00	1					
Lead	J	0.000838	0.000500	0.00200	mg/L	1.00	1					
Lithium	U	ND	0.00300	0.0100	mg/L	1.00	1					
Molybdenum	J	0.000468	0.000200	0.00100	mg/L	1.00	1					
Selenium		0.00709	0.00150	0.00500	mg/L	1.00	1					
Thallium	U	ND	0.000600	0.00200	mg/L	1.00	1					
Vanadium		0.125	0.00330	0.0200	mg/L	1.00	1					
Zinc	J	0.00727	0.00330	0.0200	mg/L	1.00	1					
Solids Analysis												
SM2540C Dissolved Solids "As Received"												
Total Dissolved Solids		1540	23.8	100	mg/L			KLP1	08/23/24	1340	2661188	6

The following Prep Methods were performed:

Method	Description	Analyst	Date	Time	Prep Batch
SW846 3005A	ICP-MS 3005A PREP	BB2	08/23/24	1445	2661557
SW846 7470A Prep	EPA 7470A Mercury Prep Liquid	JM13	08/23/24	1030	2661398

GEL LABORATORIES LLC
2040 Savage Road Charleston SC 29407 - (843) 556-8171 - www.gel.com

Certificate of Analysis

Report Date: October 3, 2024

Company :	Georgia Power Company
Address :	241 Ralph McGill Blvd NE Bin 10160 Atlanta, Georgia 30308
Contact:	Kristen Jurinko
Project:	Kraft - Grumman Road Landfill CCR Groundwater Compliance

Client Sample ID:	KRA-GWA-7	Project:	GPCC00102
Sample ID:	682055001	Client ID:	GPCC001

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method

The following Analytical Methods were performed:

Method	Description	Analyst Comments
1	EPA 300.0	
2	EPA 300.0	
3	SW846 7470A	
4	SW846 3005A/6020B	
5	SW846 3005A/6020B	
6	SM 2540C	

Notes:

Column headers are defined as follows:

DF: Dilution Factor	Lc/LC: Critical Level
DL: Detection Limit	PF: Prep Factor
MDA: Minimum Detectable Activity	RL: Reporting Limit
MDC: Minimum Detectable Concentration	SQL: Sample Quantitation Limit

GEL LABORATORIES LLC
2040 Savage Road Charleston SC 29407 - (843) 556-8171 - www.gel.com

Certificate of Analysis

Report Date: October 3, 2024

Company :	Georgia Power Company
Address :	241 Ralph McGill Blvd NE Bin 10160 Atlanta, Georgia 30308
Contact:	Kristen Jurinko
Project:	Kraft - Grumman Road Landfill CCR Groundwater Compliance

Client Sample ID:	KRA-GWB-6R	Project:	GPCC00102
Sample ID:	682055003	Client ID:	GPCC001
Matrix:	WG		
Collect Date:	20-AUG-24 09:33		
Receive Date:	21-AUG-24		
Collector:	Client		

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Ion Chromatography												
EPA 300.0 Anions Liquid "As Received"												
Chloride		53.0	6.70	20.0	mg/L		100	CH6	08/24/24	1528	2662125	1
Sulfate		734	13.3	40.0	mg/L		100					
Fluoride	J	0.0768	0.0330	0.100	mg/L		1	CH6	08/26/24	1234	2662125	2
Mercury Analysis-CVAA												
7470 Cold Vapor Mercury, Liquid "As Received"												
Mercury	U	ND	0.0000670	0.000200	mg/L	1.00	1	JP2	08/26/24	1129	2661400	3
Metals Analysis-ICP-MS												
SW846 3005A/6020B "As Received"												
Antimony	U	ND	0.00100	0.00300	mg/L	1.00	1	BAJ	09/01/24	2019	2661558	4
Arsenic		0.00560	0.00200	0.00500	mg/L	1.00	1					
Barium		0.0280	0.000670	0.00400	mg/L	1.00	1					
Beryllium	U	ND	0.000200	0.000500	mg/L	1.00	1					
Cadmium	U	ND	0.000300	0.00100	mg/L	1.00	1					
Chromium	J	0.00339	0.00300	0.0100	mg/L	1.00	1					
Cobalt		0.0368	0.000300	0.00100	mg/L	1.00	1					
Lead	U	ND	0.000500	0.00200	mg/L	1.00	1					
Lithium	U	ND	0.00300	0.0100	mg/L	1.00	1					
Molybdenum	J	0.000521	0.000200	0.00100	mg/L	1.00	1					
Selenium	J	0.00254	0.00150	0.00500	mg/L	1.00	1					
Thallium	U	ND	0.000600	0.00200	mg/L	1.00	1					
Vanadium	J	0.0155	0.00330	0.0200	mg/L	1.00	1					
Zinc		0.0355	0.00330	0.0200	mg/L	1.00	1					
Calcium		99.1	0.400	1.00	mg/L	1.00	5	BAJ	09/01/24	2022	2661558	5
Boron		6.70	0.260	0.750	mg/L	1.00	50	BAJ	09/02/24	1230	2661558	6
Solids Analysis												
SM2540C Dissolved Solids "As Received"												
Total Dissolved Solids		1190	23.8	100	mg/L			KLP1	08/27/24	1218	2663141	7

The following Prep Methods were performed:

Method	Description	Analyst	Date	Time	Prep Batch
SW846 7470A Prep	EPA 7470A Mercury Prep Liquid	JM13	08/23/24	1030	2661398
SW846 3005A	ICP-MS 3005A PREP	BB2	08/23/24	1445	2661557

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Certificate of Analysis

Report Date: October 3, 2024

Company :	Georgia Power Company
Address :	241 Ralph McGill Blvd NE Bin 10160 Atlanta, Georgia 30308
Contact:	Kristen Jurinko
Project:	Kraft - Grumman Road Landfill CCR Groundwater Compliance

Client Sample ID:	KRA-GWB-6R	Project:	GPCC00102
Sample ID:	682055003	Client ID:	GPCC001

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method

The following Analytical Methods were performed:

Method	Description	Analyst Comments
1	EPA 300.0	
2	EPA 300.0	
3	SW846 7470A	
4	SW846 3005A/6020B	
5	SW846 3005A/6020B	
6	SW846 3005A/6020B	
7	SM 2540C	

Notes:

Column headers are defined as follows:

DF: Dilution Factor	Lc/LC: Critical Level
DL: Detection Limit	PF: Prep Factor
MDA: Minimum Detectable Activity	RL: Reporting Limit
MDC: Minimum Detectable Concentration	SQL: Sample Quantitation Limit

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Certificate of Analysis

Report Date: October 3, 2024

Company :	Georgia Power Company
Address :	241 Ralph McGill Blvd NE Bin 10160 Atlanta, Georgia 30308
Contact:	Kristen Jurinko
Project:	Kraft - Grumman Road Landfill CCR Groundwater Compliance

Client Sample ID:	KRA-GWB-4R	Project:	GPCC00102
Sample ID:	682055004	Client ID:	GPCC001
Matrix:	WG		
Collect Date:	20-AUG-24 11:27		
Receive Date:	21-AUG-24		
Collector:	Client		

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Ion Chromatography												
EPA 300.0 Anions Liquid "As Received"												
Chloride		114	6.70	20.0	mg/L		100	CH6	08/24/24	1700	2662125	1
Sulfate		772	13.3	40.0	mg/L		100					
Fluoride	U	ND	0.0330	0.100	mg/L		1	CH6	08/26/24	1437	2662125	2
Mercury Analysis-CVAA												
7470 Cold Vapor Mercury, Liquid "As Received"												
Mercury	U	ND	0.0000670	0.000200	mg/L	1.00	1	JP2	08/26/24	1131	2661400	3
Metals Analysis-ICP-MS												
SW846 3005A/6020B "As Received"												
Boron		6.51	0.260	0.750	mg/L	1.00	50	BAJ	09/02/24	1231	2661558	4
Calcium		188	0.400	1.00	mg/L	1.00	5	BAJ	09/01/24	2028	2661558	5
Antimony	U	ND	0.00100	0.00300	mg/L	1.00	1	BAJ	09/01/24	2025	2661558	6
Arsenic	J	0.00377	0.00200	0.00500	mg/L	1.00	1					
Barium		0.214	0.000670	0.00400	mg/L	1.00	1					
Beryllium	U	ND	0.000200	0.000500	mg/L	1.00	1					
Cadmium	U	ND	0.000300	0.00100	mg/L	1.00	1					
Chromium	J	0.00544	0.00300	0.0100	mg/L	1.00	1					
Cobalt		0.00204	0.000300	0.00100	mg/L	1.00	1					
Lead	U	ND	0.000500	0.00200	mg/L	1.00	1					
Lithium		0.0194	0.00300	0.0100	mg/L	1.00	1					
Molybdenum		0.103	0.000200	0.00100	mg/L	1.00	1					
Selenium	J	0.00381	0.00150	0.00500	mg/L	1.00	1					
Thallium	U	ND	0.000600	0.00200	mg/L	1.00	1					
Vanadium	J	0.0189	0.00330	0.0200	mg/L	1.00	1					
Zinc	J	0.00972	0.00330	0.0200	mg/L	1.00	1					
Solids Analysis												
SM2540C Dissolved Solids "As Received"												
Total Dissolved Solids		1970	23.8	100	mg/L			KLP1	08/27/24	1218	2663141	7

The following Prep Methods were performed:

Method	Description	Analyst	Date	Time	Prep Batch
SW846 3005A	ICP-MS 3005A PREP	BB2	08/23/24	1445	2661557
SW846 7470A Prep	EPA 7470A Mercury Prep Liquid	JM13	08/23/24	1030	2661398

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Certificate of Analysis

Report Date: October 3, 2024

Company :	Georgia Power Company
Address :	241 Ralph McGill Blvd NE Bin 10160 Atlanta, Georgia 30308
Contact:	Kristen Jurinko
Project:	Kraft - Grumman Road Landfill CCR Groundwater Compliance

Client Sample ID:	KRA-GWB-4R	Project:	GPCC00102
Sample ID:	682055004	Client ID:	GPCC001

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method

The following Analytical Methods were performed:

Method	Description	Analyst Comments
1	EPA 300.0	
2	EPA 300.0	
3	SW846 7470A	
4	SW846 3005A/6020B	
5	SW846 3005A/6020B	
6	SW846 3005A/6020B	
7	SM 2540C	

Notes:

Column headers are defined as follows:

DF: Dilution Factor
DL: Detection Limit
MDA: Minimum Detectable Activity
MDC: Minimum Detectable Concentration
Lc/LC: Critical Level
PF: Prep Factor
RL: Reporting Limit
SQL: Sample Quantitation Limit

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Certificate of Analysis

Report Date: October 3, 2024

Company :	Georgia Power Company
Address :	241 Ralph McGill Blvd NE Bin 10160 Atlanta, Georgia 30308
Contact:	Kristen Jurinko
Project:	Kraft - Grumman Road Landfill CCR Groundwater Compliance

Client Sample ID:	KRA-MW-26D	Project:	GPCC00102
Sample ID:	682055007	Client ID:	GPCC001
Matrix:	WG		
Collect Date:	20-AUG-24 13:17		
Receive Date:	21-AUG-24		
Collector:	Client		

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Ion Chromatography												
EPA 300.0 Anions Liquid "As Received"												
Chloride		6.92	0.0670	0.200	mg/L		1	CH6	08/24/24	1731	2662125	1
Fluoride	J	0.0444	0.0330	0.100	mg/L		1					
Sulfate	J	0.299	0.133	0.400	mg/L		1					
Mercury Analysis-CVAA												
7470 Cold Vapor Mercury, Liquid "As Received"												
Mercury	U	ND	0.0000670	0.000200	mg/L	1.00	1	JP2	08/26/24	1133	2661400	2
Metals Analysis-ICP-MS												
SW846 3005A/6020B "As Received"												
Antimony	U	ND	0.00100	0.00300	mg/L	1.00	1	BAJ	09/01/24	2030	2661558	3
Arsenic	U	ND	0.00200	0.00500	mg/L	1.00	1					
Barium		0.0297	0.000670	0.00400	mg/L	1.00	1					
Beryllium	U	ND	0.000200	0.000500	mg/L	1.00	1					
Cadmium	U	ND	0.000300	0.00100	mg/L	1.00	1					
Calcium		2.31	0.0800	0.200	mg/L	1.00	1					
Chromium	U	ND	0.00300	0.0100	mg/L	1.00	1					
Cobalt	U	ND	0.000300	0.00100	mg/L	1.00	1					
Lead	U	ND	0.000500	0.00200	mg/L	1.00	1					
Lithium	U	ND	0.00300	0.0100	mg/L	1.00	1					
Molybdenum	U	ND	0.000200	0.00100	mg/L	1.00	1					
Selenium	U	ND	0.00150	0.00500	mg/L	1.00	1					
Thallium	U	ND	0.000600	0.00200	mg/L	1.00	1					
Vanadium	U	ND	0.00330	0.0200	mg/L	1.00	1					
Zinc		0.0261	0.00330	0.0200	mg/L	1.00	1					
Boron	J	0.0114	0.00520	0.0150	mg/L	1.00	1	BAJ	09/02/24	1213	2661558	4
Solids Analysis												
SM2540C Dissolved Solids "As Received"												
Total Dissolved Solids		27.0	2.38	10.0	mg/L			KLP1	08/27/24	1218	2663141	5

The following Prep Methods were performed:

Method	Description	Analyst	Date	Time	Prep Batch
SW846 7470A Prep	EPA 7470A Mercury Prep Liquid	JM13	08/23/24	1030	2661398
SW846 3005A	ICP-MS 3005A PREP	BB2	08/23/24	1445	2661557

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Certificate of Analysis

Report Date: October 3, 2024

Company :	Georgia Power Company
Address :	241 Ralph McGill Blvd NE Bin 10160 Atlanta, Georgia 30308
Contact:	Kristen Jurinko
Project:	Kraft - Grumman Road Landfill CCR Groundwater Compliance

Client Sample ID:	KRA-MW-26D	Project:	GPCC00102
Sample ID:	682055007	Client ID:	GPCC001

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method

The following Analytical Methods were performed:

Method	Description	Analyst Comments
1	EPA 300.0	
2	SW846 7470A	
3	SW846 3005A/6020B	
4	SW846 3005A/6020B	
5	SM 2540C	

Notes:

Column headers are defined as follows:

DF: Dilution Factor	Lc/LC: Critical Level
DL: Detection Limit	PF: Prep Factor
MDA: Minimum Detectable Activity	RL: Reporting Limit
MDC: Minimum Detectable Concentration	SQL: Sample Quantitation Limit

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Certificate of Analysis

Report Date: October 3, 2024

Company :	Georgia Power Company
Address :	241 Ralph McGill Blvd NE Bin 10160 Atlanta, Georgia 30308
Contact:	Kristen Jurinko
Project:	Kraft - Grumman Road Landfill CCR Groundwater Compliance

Client Sample ID:	KRA-GWC-1	Project:	GPCC00102
Sample ID:	682055009	Client ID:	GPCC001
Matrix:	WG		
Collect Date:	20-AUG-24 14:41		
Receive Date:	21-AUG-24		
Collector:	Client		

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Ion Chromatography												
EPA 300.0 Anions Liquid "As Received"												
Sulfate		54.0	0.532	1.60	mg/L		4	CH6	08/24/24	1115	2661887	1
Chloride		8.85	0.0670	0.200	mg/L		1	CH6	08/23/24	2109	2661887	2
Fluoride	U	ND	0.0330	0.100	mg/L		1					
Mercury Analysis-CVAA												
7470 Cold Vapor Mercury, Liquid "As Received"												
Mercury	U	ND	0.0000670	0.000200	mg/L	1.00	1	JP2	08/26/24	1134	2661400	3
Metals Analysis-ICP-MS												
SW846 3005A/6020B "As Received"												
Boron		0.854	0.0520	0.150	mg/L	1.00	10	BAJ	09/02/24	1236	2661558	4
Antimony	U	ND	0.00100	0.00300	mg/L	1.00	1	BAJ	09/01/24	2036	2661558	5
Arsenic		0.0131	0.00200	0.00500	mg/L	1.00	1					
Barium		0.0452	0.000670	0.00400	mg/L	1.00	1					
Beryllium	U	ND	0.000200	0.000500	mg/L	1.00	1					
Cadmium	U	ND	0.000300	0.00100	mg/L	1.00	1					
Calcium		37.8	0.0800	0.200	mg/L	1.00	1					
Chromium	U	ND	0.00300	0.0100	mg/L	1.00	1					
Cobalt	U	ND	0.000300	0.00100	mg/L	1.00	1					
Lead	U	ND	0.000500	0.00200	mg/L	1.00	1					
Lithium	U	ND	0.00300	0.0100	mg/L	1.00	1					
Molybdenum		0.0160	0.000200	0.00100	mg/L	1.00	1					
Selenium	J	0.00155	0.00150	0.00500	mg/L	1.00	1					
Thallium	U	ND	0.000600	0.00200	mg/L	1.00	1					
Vanadium	U	ND	0.00330	0.0200	mg/L	1.00	1					
Zinc	J	0.00917	0.00330	0.0200	mg/L	1.00	1					
Solids Analysis												
SM2540C Dissolved Solids "As Received"												
Total Dissolved Solids		217	2.38	10.0	mg/L			KLP1	08/27/24	1218	2663141	6

The following Prep Methods were performed:

Method	Description	Analyst	Date	Time	Prep Batch
SW846 7470A Prep	EPA 7470A Mercury Prep Liquid	JM13	08/23/24	1030	2661398
SW846 3005A	ICP-MS 3005A PREP	BB2	08/23/24	1445	2661557

GEL LABORATORIES LLC
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Certificate of Analysis

Report Date: October 3, 2024

Company :	Georgia Power Company
Address :	241 Ralph McGill Blvd NE Bin 10160 Atlanta, Georgia 30308
Contact:	Kristen Jurinko
Project:	Kraft - Grumman Road Landfill CCR Groundwater Compliance

Client Sample ID:	KRA-GWC-1	Project:	GPCC00102
Sample ID:	682055009	Client ID:	GPCC001

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method

The following Analytical Methods were performed:

Method	Description	Analyst Comments
1	EPA 300.0	
2	EPA 300.0	
3	SW846 7470A	
4	SW846 3005A/6020B	
5	SW846 3005A/6020B	
6	SM 2540C	

Notes:

Column headers are defined as follows:

DF: Dilution Factor	Lc/LC: Critical Level
DL: Detection Limit	PF: Prep Factor
MDA: Minimum Detectable Activity	RL: Reporting Limit
MDC: Minimum Detectable Concentration	SQL: Sample Quantitation Limit

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Certificate of Analysis

Report Date: October 3, 2024

Company :	Georgia Power Company
Address :	241 Ralph McGill Blvd NE Bin 10160 Atlanta, Georgia 30308
Contact:	Kristen Jurinko
Project:	Kraft - Grumman Road Landfill CCR Groundwater Compliance

Client Sample ID:	KRA-GRL-FD-02	Project:	GPCC00102
Sample ID:	682055013	Client ID:	GPCC001
Matrix:	WG		
Collect Date:	20-AUG-24 12:00		
Receive Date:	21-AUG-24		
Collector:	Client		

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Ion Chromatography												
EPA 300.0 Anions Liquid "As Received"												
Sulfate		54.6	0.532	1.60	mg/L		4	CH6	08/24/24	1145	2661887	1
Chloride		8.98	0.0670	0.200	mg/L		1	CH6	08/23/24	2139	2661887	2
Fluoride	U	ND	0.0330	0.100	mg/L		1					
Mercury Analysis-CVAA												
7470 Cold Vapor Mercury, Liquid "As Received"												
Mercury	U	ND	0.0000670	0.000200	mg/L	1.00	1	JP2	08/26/24	1136	2661400	3
Metals Analysis-ICP-MS												
SW846 3005A/6020B "As Received"												
Antimony	U	ND	0.00100	0.00300	mg/L	1.00	1	BAJ	09/01/24	2047	2661558	4
Arsenic		0.0128	0.00200	0.00500	mg/L	1.00	1					
Barium		0.0468	0.000670	0.00400	mg/L	1.00	1					
Beryllium	U	ND	0.000200	0.000500	mg/L	1.00	1					
Cadmium	U	ND	0.000300	0.00100	mg/L	1.00	1					
Calcium		39.6	0.0800	0.200	mg/L	1.00	1					
Chromium	U	ND	0.00300	0.0100	mg/L	1.00	1					
Cobalt	U	ND	0.000300	0.00100	mg/L	1.00	1					
Lead	U	ND	0.000500	0.00200	mg/L	1.00	1					
Lithium	U	ND	0.00300	0.0100	mg/L	1.00	1					
Molybdenum		0.0166	0.000200	0.00100	mg/L	1.00	1					
Selenium	J	0.00175	0.00150	0.00500	mg/L	1.00	1					
Thallium	U	ND	0.000600	0.00200	mg/L	1.00	1					
Vanadium	J	0.00344	0.00330	0.0200	mg/L	1.00	1					
Zinc	J	0.00513	0.00330	0.0200	mg/L	1.00	1					
Boron		0.885	0.0520	0.150	mg/L	1.00	10	BAJ	09/02/24	1237	2661558	5
Solids Analysis												
SM2540C Dissolved Solids "As Received"												
Total Dissolved Solids		217	2.38	10.0	mg/L			KLP1	08/27/24	1218	2663141	6

The following Prep Methods were performed:

Method	Description	Analyst	Date	Time	Prep Batch
SW846 3005A	ICP-MS 3005A PREP	BB2	08/23/24	1445	2661557
SW846 7470A Prep	EPA 7470A Mercury Prep Liquid	JM13	08/23/24	1030	2661398

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Certificate of Analysis

Report Date: October 3, 2024

Company :	Georgia Power Company
Address :	241 Ralph McGill Blvd NE Bin 10160 Atlanta, Georgia 30308
Contact:	Kristen Jurinko
Project:	Kraft - Grumman Road Landfill CCR Groundwater Compliance

Client Sample ID:	KRA-GRL-FD-02	Project:	GPCC00102
Sample ID:	682055013	Client ID:	GPCC001

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method

The following Analytical Methods were performed:

Method	Description	Analyst Comments
1	EPA 300.0	
2	EPA 300.0	
3	SW846 7470A	
4	SW846 3005A/6020B	
5	SW846 3005A/6020B	
6	SM 2540C	

Notes:

Column headers are defined as follows:

DF: Dilution Factor	Lc/LC: Critical Level
DL: Detection Limit	PF: Prep Factor
MDA: Minimum Detectable Activity	RL: Reporting Limit
MDC: Minimum Detectable Concentration	SQL: Sample Quantitation Limit

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Certificate of Analysis

Report Date: October 3, 2024

Company : Georgia Power Company
Address : 241 Ralph McGill Blvd NE
Bin 10160
Atlanta, Georgia 30308
Contact: Kristen Jurinko
Project: Kraft - Grumman Road Landfill CCR Groundwater Compliance

Client Sample ID: KRA-GRL-FB-01
Sample ID: 682055014
Matrix: WQ
Collect Date: 20-AUG-24 10:30
Receive Date: 21-AUG-24
Collector: Client

Project: GPCC00102
Client ID: GPCC001

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Ion Chromatography												
EPA 300.0 Anions Liquid "As Received"												
Chloride	U	ND	0.0670	0.200	mg/L		1	CH6	08/23/24	2312	2661887	1
Fluoride	U	ND	0.0330	0.100	mg/L		1					
Sulfate	U	ND	0.133	0.400	mg/L		1					
Mercury Analysis-CVAA												
7470 Cold Vapor Mercury, Liquid "As Received"												
Mercury	U	ND	0.0000670	0.000200	mg/L	1.00	1	JP2	08/26/24	1137	2661400	2
Metals Analysis-ICP-MS												
SW846 3005A/6020B "As Received"												
Antimony	U	ND	0.00100	0.00300	mg/L	1.00	1	BAJ	09/01/24	2053	2661558	3
Arsenic	U	ND	0.00200	0.00500	mg/L	1.00	1					
Barium	U	ND	0.000670	0.00400	mg/L	1.00	1					
Beryllium	U	ND	0.000200	0.000500	mg/L	1.00	1					
Cadmium	U	ND	0.000300	0.00100	mg/L	1.00	1					
Calcium	U	ND	0.0800	0.200	mg/L	1.00	1					
Chromium	U	ND	0.00300	0.0100	mg/L	1.00	1					
Cobalt	U	ND	0.000300	0.00100	mg/L	1.00	1					
Lead	U	ND	0.000500	0.00200	mg/L	1.00	1					
Lithium	U	ND	0.00300	0.0100	mg/L	1.00	1					
Molybdenum	U	ND	0.000200	0.00100	mg/L	1.00	1					
Selenium	U	ND	0.00150	0.00500	mg/L	1.00	1					
Thallium	U	ND	0.000600	0.00200	mg/L	1.00	1					
Vanadium	U	ND	0.00330	0.0200	mg/L	1.00	1					
Zinc	U	ND	0.00330	0.0200	mg/L	1.00	1					
Boron	U	ND	0.00520	0.0150	mg/L	1.00	1	BAJ	09/02/24	1211	2661558	4
Solids Analysis												
SM2540C Dissolved Solids "As Received"												
Total Dissolved Solids	U	ND	2.38	10.0	mg/L			KLP1	08/27/24	1218	2663141	5

The following Prep Methods were performed:

Method	Description	Analyst	Date	Time	Prep Batch
SW846 7470A Prep	EPA 7470A Mercury Prep Liquid	JM13	08/23/24	1030	2661398
SW846 3005A	ICP-MS 3005A PREP	BB2	08/23/24	1445	2661557

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Certificate of Analysis

Report Date: October 3, 2024

Company :	Georgia Power Company
Address :	241 Ralph McGill Blvd NE Bin 10160 Atlanta, Georgia 30308
Contact:	Kristen Jurinko
Project:	Kraft - Grumman Road Landfill CCR Groundwater Compliance

Client Sample ID:	KRA-GRL-FB-01	Project:	GPCC00102
Sample ID:	682055014	Client ID:	GPCC001

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method

The following Analytical Methods were performed:

Method	Description	Analyst Comments
1	EPA 300.0	
2	SW846 7470A	
3	SW846 3005A/6020B	
4	SW846 3005A/6020B	
5	SM 2540C	

Notes:

Column headers are defined as follows:

DF: Dilution Factor	Lc/LC: Critical Level
DL: Detection Limit	PF: Prep Factor
MDA: Minimum Detectable Activity	RL: Reporting Limit
MDC: Minimum Detectable Concentration	SQL: Sample Quantitation Limit

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Certificate of Analysis

Report Date: October 3, 2024

Company :	Georgia Power Company
Address :	241 Ralph McGill Blvd NE Bin 10160 Atlanta, Georgia 30308
Contact:	Kristen Jurinko
Project:	Kraft - Grumman Road Landfill CCR Groundwater Compliance

Client Sample ID:	KRA-GRL-EB-04	Project:	GPCC00102
Sample ID:	682055015	Client ID:	GPCC001
Matrix:	WQ		
Collect Date:	20-AUG-24 13:50		
Receive Date:	21-AUG-24		
Collector:	Client		

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Ion Chromatography												
EPA 300.0 Anions Liquid "As Received"												
Chloride	U	ND	0.0670	0.200	mg/L		1	CH6	08/23/24	2343	2661887	1
Fluoride	U	ND	0.0330	0.100	mg/L		1					
Sulfate	U	ND	0.133	0.400	mg/L		1					
Mercury Analysis-CVAA												
7470 Cold Vapor Mercury, Liquid "As Received"												
Mercury	U	ND	0.0000670	0.000200	mg/L	1.00	1	JP2	08/26/24	1139	2661400	2
Metals Analysis-ICP-MS												
SW846 3005A/6020B "As Received"												
Antimony	U	ND	0.00100	0.00300	mg/L	1.00	1	BAJ	09/01/24	2059	2661558	3
Arsenic	U	ND	0.00200	0.00500	mg/L	1.00	1					
Barium	U	ND	0.000670	0.00400	mg/L	1.00	1					
Beryllium	U	ND	0.000200	0.000500	mg/L	1.00	1					
Cadmium	U	ND	0.000300	0.00100	mg/L	1.00	1					
Calcium	J	0.0842	0.0800	0.200	mg/L	1.00	1					
Chromium	U	ND	0.00300	0.0100	mg/L	1.00	1					
Cobalt	U	ND	0.000300	0.00100	mg/L	1.00	1					
Lead	U	ND	0.000500	0.00200	mg/L	1.00	1					
Lithium	U	ND	0.00300	0.0100	mg/L	1.00	1					
Molybdenum	U	ND	0.000200	0.00100	mg/L	1.00	1					
Selenium	U	ND	0.00150	0.00500	mg/L	1.00	1					
Thallium	U	ND	0.000600	0.00200	mg/L	1.00	1					
Vanadium	U	ND	0.00330	0.0200	mg/L	1.00	1					
Zinc	U	ND	0.00330	0.0200	mg/L	1.00	1					
Boron	U	ND	0.00520	0.0150	mg/L	1.00	1	BAJ	09/02/24	1212	2661558	4
Solids Analysis												
SM2540C Dissolved Solids "As Received"												
Total Dissolved Solids	U	ND	2.38	10.0	mg/L			KLP1	08/27/24	1218	2663141	5

The following Prep Methods were performed:

Method	Description	Analyst	Date	Time	Prep Batch
SW846 7470A Prep	EPA 7470A Mercury Prep Liquid	JM13	08/23/24	1030	2661398
SW846 3005A	ICP-MS 3005A PREP	BB2	08/23/24	1445	2661557

GEL LABORATORIES LLC
2040 Savage Road Charleston SC 29407 - (843) 556-8171 - www.gel.com

Certificate of Analysis

Report Date: October 3, 2024

Company :	Georgia Power Company
Address :	241 Ralph McGill Blvd NE Bin 10160 Atlanta, Georgia 30308
Contact:	Kristen Jurinko
Project:	Kraft - Grumman Road Landfill CCR Groundwater Compliance

Client Sample ID:	KRA-GRL-EB-04	Project:	GPCC00102
Sample ID:	682055015	Client ID:	GPCC001

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method

The following Analytical Methods were performed:

Method	Description	Analyst Comments
1	EPA 300.0	
2	SW846 7470A	
3	SW846 3005A/6020B	
4	SW846 3005A/6020B	
5	SM 2540C	

Notes:

Column headers are defined as follows:

DF: Dilution Factor	Lc/LC: Critical Level
DL: Detection Limit	PF: Prep Factor
MDA: Minimum Detectable Activity	RL: Reporting Limit
MDC: Minimum Detectable Concentration	SQL: Sample Quantitation Limit

QC Summary

Report Date: October 3, 2024

Georgia Power Company
241 Ralph McGill Blvd NE
Bin 10160
Atlanta, Georgia

Contact: **Kristen Jurinko**

Workorder: **682055**

Parmname	NOM	Sample	Qual	QC	Units	RPD%		REC%	Range	Anlst	Date	Time
Ion Chromatography												
Batch 2661887												
QC1205832710 682418018 DUP												
Chloride		2.22		2.22	mg/L	0.198			(0%-20%)	CH6	08/23/24	13:56
Fluoride		0.226		0.222	mg/L	1.61	^		(+/-0.100)			
Sulfate		31.1		31.1	mg/L	0.195			(0%-20%)		08/23/24	17:33
QC1205832709 LCS												
Chloride	5.00			4.82	mg/L			96.4	(90%-110%)		08/23/24	15:29
Fluoride	2.50			2.36	mg/L			94.4	(90%-110%)			
Sulfate	10.0			9.59	mg/L			95.9	(90%-110%)			
QC1205832708 MB												
Chloride			U	ND	mg/L						08/23/24	14:58
Fluoride			U	ND	mg/L							
Sulfate			U	ND	mg/L							
QC1205832711 682418018 PS												
Chloride	5.00	2.22		7.33	mg/L			102	(90%-110%)		08/23/24	14:27
Fluoride	2.50	0.226		2.67	mg/L			97.7	(90%-110%)			
Sulfate	10.0	15.6		26.1	mg/L			106	(90%-110%)		08/23/24	18:03

QC Summary

Workorder: **682055**

Parmname	NOM		Sample	Qual	QC	Units	RPD%		REC%	Range	Anlst	Date Time
Ion Chromatography												
Batch 2662125												
QC1205833347 682055001 DUP												
Chloride			86.5		86.9	mg/L	0.448			(0%-20%)	CH6	08/26/24 11:32
Fluoride		J	0.0610	J	0.0568	mg/L	7.13	^		(+/-0.100)		08/24/24 14:26
Sulfate			2.76		2.72	mg/L	1.47			(0%-20%)		
QC1205833349 682055003 DUP												
Chloride			53.0		53.0	mg/L	0.0566	^		(+/-20.0)		08/24/24 15:59
Fluoride		J	0.0768	J	0.0649	mg/L	16.8	^		(+/-0.100)		08/26/24 13:05
Sulfate			734		737	mg/L	0.362			(0%-20%)		08/24/24 15:59
QC1205833346 LCS												
Chloride	5.00				4.73	mg/L			94.5	(90%-110%)		08/24/24 13:24
Fluoride	2.50				2.42	mg/L			96.7	(90%-110%)		
Sulfate	10.0				9.55	mg/L			95.5	(90%-110%)		
QC1205833345 MB												
Chloride				U	ND	mg/L						08/24/24 12:54
Fluoride				U	ND	mg/L						
Sulfate				U	ND	mg/L						
QC1205833348 682055001 PS												
Chloride	5.00		4.32		9.65	mg/L			106	(90%-110%)		08/26/24 12:03

QC Summary

Workorder: **682055**

Parmname	NOM		Sample	Qual	QC	Units	RPD%	REC%	Range	Anlst	Date Time
Ion Chromatography											
Batch 2662125											
Fluoride	2.50	J	0.0610		2.45	mg/L		95.6	(90%-110%)	CH6	08/24/24 14:57
Sulfate	10.0		2.76		12.5	mg/L		97.5	(90%-110%)		
QC1205833350 682055003 PS											
Chloride	5.00		0.530		5.20	mg/L		93.3	(90%-110%)		08/24/24 16:29
Fluoride	2.50	J	0.0768		2.67	mg/L		104	(90%-110%)		08/26/24 13:36
Sulfate	10.0		7.34		17.2	mg/L		99.1	(90%-110%)		08/24/24 16:29
Metals Analysis - ICPMS											
Batch 2661558											
QC1205831918 LCS											
Antimony	0.0500				0.0499	mg/L		99.7	(80%-120%)	BAJ	09/01/24 19:37
Arsenic	0.0500				0.0493	mg/L		98.6	(80%-120%)		
Barium	0.0500				0.0489	mg/L		97.9	(80%-120%)		
Beryllium	0.0500				0.0485	mg/L		97	(80%-120%)		
Boron	0.100				0.0952	mg/L		95.2	(80%-120%)		09/02/24 12:10
Cadmium	0.0500				0.0490	mg/L		98.1	(80%-120%)		09/01/24 19:37
Calcium	2.00				2.08	mg/L		104	(80%-120%)		
Chromium	0.0500				0.0502	mg/L		100	(80%-120%)		

QC Summary

Workorder: **682055**

Parmname	NOM	Sample	Qual	QC	Units	RPD%	REC%	Range	Anlst	Date Time
Metals Analysis - ICPMS										
Batch 2661558										
Cobalt	0.0500			0.0494	mg/L		98.9	(80%-120%)	BAJ	09/01/24 19:37
Lead	0.0500			0.0489	mg/L		97.9	(80%-120%)		
Lithium	0.0500			0.0491	mg/L		98.2	(80%-120%)		
Molybdenum	0.0500			0.0477	mg/L		95.3	(80%-120%)		
Selenium	0.0500			0.0503	mg/L		101	(80%-120%)		
Thallium	0.0500			0.0466	mg/L		93.1	(80%-120%)		
Vanadium	0.0500			0.0488	mg/L		97.5	(80%-120%)		
Zinc	0.0500			0.0498	mg/L		99.6	(80%-120%)		
QC1205831917 MB										
Antimony			U	ND	mg/L					09/01/24 19:34
Arsenic			U	ND	mg/L					
Barium			U	ND	mg/L					
Beryllium			U	ND	mg/L					
Boron			U	ND	mg/L					09/02/24 12:09
Cadmium			U	ND	mg/L					09/01/24 19:34

QC Summary

Workorder: **682055**

Parmname	NOM		Sample	Qual	QC	Units	RPD%	REC%	Range	Anlst	Date Time
Metals Analysis - ICPMS											
Batch 2661558											
Calcium				U	ND	mg/L				BAJ	09/01/24 19:34
Chromium				U	ND	mg/L					
Cobalt				U	ND	mg/L					
Lead				U	ND	mg/L					
Lithium				U	ND	mg/L					
Molybdenum				U	ND	mg/L					
Selenium				U	ND	mg/L					
Thallium				U	ND	mg/L					
Vanadium				U	ND	mg/L					
Zinc				U	ND	mg/L					
QC1205831919 682055001 MS											
Antimony	0.0500	U	ND		0.0553	mg/L		110	(75%-125%)		09/01/24 19:48
Arsenic	0.0500	J	0.00287		0.0589	mg/L		112	(75%-125%)		
Barium	0.0500		0.201		0.266	mg/L		N/A	(75%-125%)		
Beryllium	0.0500	U	ND		0.0490	mg/L		97.7	(75%-125%)		

QC Summary

Workorder: **682055**

Parmname	NOM		Sample	Qual	QC	Units	RPD%	REC%	Range	Anlst	Date Time
Metals Analysis - ICPMS											
Batch 2661558											
Boron	0.100		10.5		11.6	mg/L		N/A	(75%-125%)	BAJ	09/02/24 12:27
Cadmium	0.0500	U	ND		0.0501	mg/L		100	(75%-125%)		09/01/24 19:48
Calcium	2.00		3.36		5.64	mg/L		114	(75%-125%)		
Chromium	0.0500		0.0123		0.0647	mg/L		105	(75%-125%)		
Cobalt	0.0500		0.00150		0.0507	mg/L		98.4	(75%-125%)		
Lead	0.0500	J	0.000838		0.0482	mg/L		94.6	(75%-125%)		
Lithium	0.0500	U	ND		0.0535	mg/L		106	(75%-125%)		
Molybdenum	0.0500	J	0.000468		0.0570	mg/L		113	(75%-125%)		
Selenium	0.0500		0.00709		0.0593	mg/L		104	(75%-125%)		
Thallium	0.0500	U	ND		0.0467	mg/L		93.2	(75%-125%)		
Vanadium	0.0500		0.125		0.186	mg/L		123	(75%-125%)		
Zinc	0.0500	J	0.00727		0.0558	mg/L		97	(75%-125%)		
QC1205831920 682055001 MSD											
Antimony	0.0500	U	ND		0.0500	mg/L	9.99	99.4	(0%-20%)		09/01/24 19:51
Arsenic	0.0500	J	0.00287		0.0537	mg/L	9.12	102	(0%-20%)		

QC Summary

Workorder: **682055**

Parmname	NOM		Sample	Qual	QC	Units	RPD%	REC%	Range	Anlst	Date	Time
Metals Analysis - ICPMS												
Batch 2661558												
Barium	0.0500		0.201		0.234	mg/L	12.6	N/A	(0%-20%)	BAJ	09/01/24	19:51
Beryllium	0.0500	U	ND		0.0456	mg/L	7.13	91	(0%-20%)			
Boron	0.100		10.5		10.7	mg/L	8.41	N/A	(0%-20%)		09/02/24	12:28
Cadmium	0.0500	U	ND		0.0455	mg/L	9.5	90.9	(0%-20%)		09/01/24	19:51
Calcium	2.00		3.36		5.16	mg/L	8.89	89.8	(0%-20%)			
Chromium	0.0500		0.0123		0.0587	mg/L	9.64	92.8	(0%-20%)			
Cobalt	0.0500		0.00150		0.0465	mg/L	8.71	90	(0%-20%)			
Lead	0.0500	J	0.000838		0.0436	mg/L	10	85.4	(0%-20%)			
Lithium	0.0500	U	ND		0.0497	mg/L	7.29	98.8	(0%-20%)			
Molybdenum	0.0500	J	0.000468		0.0513	mg/L	10.5	102	(0%-20%)			
Selenium	0.0500		0.00709		0.0531	mg/L	11	92.1	(0%-20%)			
Thallium	0.0500	U	ND		0.0422	mg/L	9.97	84.4	(0%-20%)			
Vanadium	0.0500		0.125		0.169	mg/L	10.1	87.5	(0%-20%)			
Zinc	0.0500	J	0.00727		0.0507	mg/L	9.56	86.8	(0%-20%)			

QC Summary

Workorder: **682055**

Parmname	NOM	Sample	Qual	QC	Units	RPD%	REC%	Range	Anlst	Date Time
Metals Analysis - ICPMS										
Batch 2661558										
QC1205831921 682055001 SDILT										
Antimony	U	ND	U	ND	ug/L	N/A		(0%-20%)	BAJ	09/01/24 19:57
Arsenic	J	2.87	U	ND	ug/L	N/A		(0%-20%)		
Barium		201		40.3	ug/L	.0164		(0%-20%)		
Beryllium	U	ND	U	ND	ug/L	N/A		(0%-20%)		
Boron		105		22.8	ug/L	8.7		(0%-20%)		09/02/24 12:29
Cadmium	U	ND	U	ND	ug/L	N/A		(0%-20%)		09/01/24 19:57
Calcium		3360		664	ug/L	1.26		(0%-20%)		
Chromium		12.3	U	ND	ug/L	N/A		(0%-20%)		
Cobalt		1.50	J	0.317	ug/L	5.53		(0%-20%)		
Lead	J	0.838	U	ND	ug/L	N/A		(0%-20%)		
Lithium	U	ND	U	ND	ug/L	N/A		(0%-20%)		
Molybdenum	J	0.468	U	ND	ug/L	N/A		(0%-20%)		
Selenium		7.09	J	1.52	ug/L	7.27		(0%-20%)		
Thallium	U	ND	U	ND	ug/L	N/A		(0%-20%)		

QC Summary

Workorder: **682055**

Parmname	NOM		Sample	Qual	QC	Units	RPD%		REC%	Range	Anlst	Date	Time
Metals Analysis - ICPMS													
Batch 2661558													
Vanadium			125		25.3	ug/L	1.23			(0%-20%)	BAJ	09/01/24	19:57
Zinc		J	7.27	U	ND	ug/L	N/A			(0%-20%)			
Metals Analysis-Mercury													
Batch 2661400													
QC1205831549 681947004 DUP													
Mercury		U	ND	U	ND	mg/L	N/A				JP2	08/26/24	11:18
QC1205831548 LCS													
Mercury	0.00200				0.00209	mg/L			104	(80%-120%)		08/26/24	11:10
QC1205831547 MB													
Mercury				U	ND	mg/L						08/26/24	11:08
QC1205831550 681947004 MS													
Mercury	0.00200	U	ND		0.00212	mg/L			106	(75%-125%)		08/26/24	11:20
QC1205831551 681947004 SDILT													
Mercury		U	ND	U	ND	ug/L	N/A			(0%-10%)		08/26/24	11:21
Solids Analysis													
Batch 2661188													
QC1205831078 681538004 DUP													
Total Dissolved Solids			54.0		43.0	mg/L	22.7	*^		(+/-10.0)	KLP1	08/23/24	13:40
QC1205831077 LCS													
Total Dissolved Solids	300				296	mg/L			98.7	(95%-105%)		08/23/24	13:40
QC1205831076 MB													
Total Dissolved Solids				U	ND	mg/L						08/23/24	13:40

QC Summary

Workorder: **682055**

Parmname	NOM	Sample	Qual	QC	Units	RPD%	REC%	Range	Anlst	Date	Time
Solids Analysis											
Batch 2663141											
QC1205835769 681878005 DUP											
Total Dissolved Solids		277		279	mg/L	0.719		(0%-5%)	KLP1	08/27/24	12:18
QC1205835768 LCS											
Total Dissolved Solids	300			304	mg/L		101	(95%-105%)		08/27/24	12:18
QC1205835767 MB											
Total Dissolved Solids			U	ND	mg/L					08/27/24	12:18

Notes:

The Qualifiers in this report are defined as follows:

U	Analyte was analyzed for, but not detected above the MDL, MDA, MDC or LOD.
J	Value is estimated
X	Consult Case Narrative, Data Summary package, or Project Manager concerning this qualifier
N	Metals--The Matrix spike sample recovery is not within specified control limits
H	Analytical holding time was exceeded
<	Result is less than value reported
>	Result is greater than value reported
h	Preparation or preservation holding time was exceeded
R	Sample results are rejected
Z	Paint Filter Test--Particulates passed through the filter, however no free liquids were observed.
d	5-day BOD--The 2:1 depletion requirement was not met for this sample
^	RPD of sample and duplicate evaluated using +/-RL. Concentrations are <5X the RL. Qualifier Not Applicable for Radiochemistry.
N/A	RPD or %Recovery limits do not apply.
ND	Analyte concentration is not detected above the detection limit
E	%difference of sample and SD is >10%. Sample concentration must meet flagging criteria
NJ	Consult Case Narrative, Data Summary package, or Project Manager concerning this qualifier
E	General Chemistry--Concentration of the target analyte exceeds the instrument calibration range
Q	One or more quality control criteria have not been met. Refer to the applicable narrative or DER.
FB	Mercury was found present at quantifiable concentrations in field blanks received with these samples. Data associated with the blank are deemed invalid for reporting to regulatory agencies
N1	See case narrative
Y	Other specific qualifiers were required to properly define the results. Consult case narrative.
R	Per section 9.3.4.1 of Method 1664 Revision B, due to matrix spike recovery issues, this result may not be reported or used for regulatory compliance purposes.

QC Summary

Workorder: **682055**

Parmname	NOM	Sample	Qual	QC	Units	RPD%	REC%	Range	Anlst	Date	Time

B The target analyte was detected in the associated blank.

e 5-day BOD--Test replicates show more than 30% difference between high and low values. The data is qualified per the method and can be used for reporting purposes

J See case narrative for an explanation

N/A indicates that spike recovery limits do not apply when sample concentration exceeds spike conc. by a factor of 4 or more or %RPD not applicable.
^ The Relative Percent Difference (RPD) obtained from the sample duplicate (DUP) is evaluated against the acceptance criteria when the sample is greater than five times (5X) the contract required detection limit (RL). In cases where either the sample or duplicate value is less than 5X the RL, a control limit of +/- the RL is used to evaluate the DUP result.
* Indicates that a Quality Control parameter was not within specifications.
For PS, PSD, and SDILT results, the values listed are the measured amounts, not final concentrations.

Where the analytical method has been performed under NELAP certification, the analysis has met all of the requirements of the NELAC standard unless qualified on the QC Summary.

Metals

Product: **Determination of Metals by ICP-MS**
Analytical Method: SW846 3005A/6020B
Analytical Procedure: GL-MA-E-014 REV# 36
Analytical Batch: 2661558

Preparation Method: SW846 3005A
Preparation Procedure: GL-MA-E-006 REV# 15
Preparation Batch: 2661557

The following samples were analyzed using the above methods and analytical procedure(s).

GEL Sample ID#	Client Sample Identification
682055001	KRA-GWA-7
682055003	KRA-GWB-6R
682055004	KRA-GWB-4R
682055007	KRA-MW-26D
682055009	KRA-GWC-1
682055013	KRA-GRL-FD-02
682055014	KRA-GRL-FB-01
682055015	KRA-GRL-EB-04
1205831917	Method Blank (MB)**ICP-MS**
1205831918	Laboratory Control Sample (LCS)
1205831921	682055001(KRA-GWA-7L) Serial Dilution (SD)
1205831919	682055001(KRA-GWA-7S) Matrix Spike (MS)
1205831920	682055001(KRA-GWA-7SD) Matrix Spike Duplicate (MSD)

The samples in this SDG were analyzed on an "as received" basis.

Data Summary:

All sample data provided in this report met the acceptance criteria specified in the analytical methods and procedures for initial calibration, continuing calibration, instrument controls and process controls where applicable, with the following exceptions.

Calibration Information

ICSA/ICSAB Statement
For the ICP-MS analysis, the ICSA solution contains analyte concentrations which are verified trace impurities indigenous to the purchased standard.

Technical Information

Sample Dilutions
Dilutions may be required for many reasons, including to minimize matrix interferences or to bring over range target analyte concentrations into the linear calibration range. Samples 682055001 (KRA-GWA-7), 682055003 (KRA-GWB-6R), 682055004 (KRA-GWB-4R), 682055009 (KRA-GWC-1) and 682055013 (KRA-GRL-FD-02) were diluted to ensure that the analyte concentrations were within the linear calibration range of the instrument.

Analyte	682055				
	001	003	004	009	013
Boron	100X	50X	50X	10X	10X
Calcium	1X	5X	5X	1X	1X

Product: **Mercury Analysis Using the Perkin Elmer Automated Mercury Analyzer**
Analytical Method: SW846 7470A
Analytical Procedure: GL-MA-E-010 REV# 40
Analytical Batch: 2661400

Preparation Method: SW846 7470A Prep
Preparation Procedure: GL-MA-E-010 REV# 40
Preparation Batch: 2661398

The following samples were analyzed using the above methods and analytical procedure(s).

GEL Sample ID#	Client Sample Identification
682055001	KRA-GWA-7
682055003	KRA-GWB-6R
682055004	KRA-GWB-4R
682055007	KRA-MW-26D
682055009	KRA-GWC-1
682055013	KRA-GRL-FD-02
682055014	KRA-GRL-FB-01
682055015	KRA-GRL-EB-04
1205831547	Method Blank (MB)**CVAA**
1205831548	Laboratory Control Sample (LCS)
1205831551	681947004(NonSDGL) Serial Dilution (SD)
1205831549	681947004(NonSDGD) Sample Duplicate (DUP)
1205831550	681947004(NonSDGS) Matrix Spike (MS)

The samples in this SDG were analyzed on an "as received" basis.

Data Summary:

There are no exceptions, anomalies or deviations from the specified methods. All sample data provided in this report met the acceptance criteria specified in the analytical methods and procedures for initial calibration, continuing calibration, instrument controls and process controls where applicable.

General Chemistry

Product: **Ion Chromatography**
Analytical Method: EPA 300.0
Analytical Procedure: GL-GC-E-086 REV# 35
Analytical Batch: 2661887

The following samples were analyzed using the above methods and analytical procedure(s).

GEL Sample ID#	Client Sample Identification
682055009	KRA-GWC-1

682055013	KRA-GRL-FD-02
682055014	KRA-GRL-FB-01
682055015	KRA-GRL-EB-04
1205832708	Method Blank (MB)
1205832709	Laboratory Control Sample (LCS)
1205832710	682418018(NonSDG) Sample Duplicate (DUP)
1205832711	682418018(NonSDG) Post Spike (PS)

The samples in this SDG were analyzed on an "as received" basis.

Data Summary:

All sample data provided in this report met the acceptance criteria specified in the analytical methods and procedures for initial calibration, continuing calibration, instrument controls and process controls where applicable, with the following exceptions.

Technical Information

Sample Dilutions
The following samples 1205832710 (Non SDG 682418018DUP), 1205832711 (Non SDG 682418018PS), 682055009 (KRA-GWC-1) and 682055013 (KRA-GRL-FD-02) were diluted because target analyte concentrations exceeded the calibration range. Dilutions may be required for many reasons, including to minimize matrix interferences or to bring over range target analyte concentrations into the linear calibration range.

Analyte	682055	
	009	013
Sulfate	4X	4X

Miscellaneous Information

Manual Integrations
Sample 1205832710 (Non SDG 682418018DUP) was manually integrated to correctly position the baseline as set in the calibration standards.

Product: **Ion Chromatography**
Analytical Method: EPA 300.0
Analytical Procedure: GL-GC-E-086 REV# 35
Analytical Batch: 2662125

The following samples were analyzed using the above methods and analytical procedure(s).

GEL Sample ID#	Client Sample Identification
682055001	KRA-GWA-7
682055003	KRA-GWB-6R
682055004	KRA-GWB-4R
682055007	KRA-MW-26D
1205833345	Method Blank (MB)
1205833346	Laboratory Control Sample (LCS)
1205833347	682055001(KRA-GWA-7) Sample Duplicate (DUP)
1205833348	682055001(KRA-GWA-7) Post Spike (PS)
1205833349	682055003(KRA-GWB-6R) Sample Duplicate (DUP)
1205833350	682055003(KRA-GWB-6R) Post Spike (PS)

The samples in this SDG were analyzed on an "as received" basis.

Data Summary:

All sample data provided in this report met the acceptance criteria specified in the analytical methods and procedures for initial calibration, continuing calibration, instrument controls and process controls where applicable, with the following exceptions.

Technical Information

Sample Dilutions
The following samples 1205833347 (KRA-GWA-7DUP), 1205833348 (KRA-GWA-7PS) and 682055001 (KRA-GWA-7) were diluted because target analyte concentrations exceeded the calibration range. Samples 1205833349 (KRA-GWB-6RDUP), 1205833350 (KRA-GWB-6RPS), 682055003 (KRA-GWB-6R) and 682055004 (KRA-GWB-4R) were diluted based on historical data. Dilutions may be required for many reasons, including to minimize matrix interferences or to bring over range target analyte concentrations into the linear calibration range.

Analyte	682055		
	001	**003**	**004**
Chloride	20X	100X	100X
Sulfate	1X	100X	100X

Miscellaneous Information

Manual Integrations
Sample 682055007 (KRA-MW-26D) was manually integrated to correctly position the baseline as set in the calibration standards.

Product: **Solids, Total Dissolved**
Analytical Method: SM 2540C
Analytical Procedure: GL-GC-E-001 REV# 21
Analytical Batch: 2661188

The following samples were analyzed using the above methods and analytical procedure(s).

GEL Sample ID#	Client Sample Identification
682055001	KRA-GWA-7
1205831076	Method Blank (MB)
1205831077	Laboratory Control Sample (LCS)
1205831078	681538004(NonSDG) Sample Duplicate (DUP)

The samples in this SDG were analyzed on an "as received" basis.

Data Summary:

All sample data provided in this report met the acceptance criteria specified in the analytical methods and procedures for initial calibration, continuing calibration, instrument controls and process controls where applicable, with the following exceptions.

Quality Control (QC) Information

Duplicate Relative Percent Difference (RPD) Statement
The Relative Percent Difference (RPD) between the sample and duplicate falls outside of the established acceptance limits because of the heterogeneous matrix of the sample:

Analyte	Sample	Value
Total Dissolved Solids	1205831078 (Non SDG 681538004DUP)	abs(43 - 54)* (+/-10 mg/L)

Miscellaneous Information

Additional Comments
A reduced aliquot was used due to historical information. 682055001 (KRA-GWA-7).

Product: **Solids, Total Dissolved**
Analytical Method: SM 2540C
Analytical Procedure: GL-GC-E-001 REV# 21
Analytical Batch: 2663141

The following samples were analyzed using the above methods and analytical procedure(s).

GEL Sample ID#	Client Sample Identification
682055003	KRA-GWB-6R
682055004	KRA-GWB-4R
682055007	KRA-MW-26D
682055009	KRA-GWC-1
682055013	KRA-GRL-FD-02
682055014	KRA-GRL-FB-01
682055015	KRA-GRL-EB-04
1205835767	Method Blank (MB)
1205835768	Laboratory Control Sample (LCS)
1205835769	681878005(NonSDG) Sample Duplicate (DUP)

The samples in this SDG were analyzed on an "as received" basis.

Data Summary:

All sample data provided in this report met the acceptance criteria specified in the analytical methods and procedures for initial calibration, continuing calibration, instrument controls and process controls where applicable, with the following exceptions.

Miscellaneous Information

Additional Comments
A reduced aliquot was used due to historical information. 682055003 (KRA-GWB-6R) and 682055004 (KRA-GWB-4R).

Certification Statement

Where the analytical method has been performed under NELAP certification, the analysis has met all of the requirements of the NELAC standard unless otherwise noted in the analytical case narrative.

Page: 1 of 2
Project #
GEL Quote #:
COC Number (1):
PO Number: GPC82177-0004

GEL Laboratories LLC
gel.com
Chemistry | Radiochemistry | Radiobioassay | Specialty Analytics

Chain of Custody and Analytical Request

GEL Work Order Number: *GEL Project Manager: Erin Trent*

GEL Laboratories, LLC
2040 Savage Road
Charleston, SC 29407
Phone: (843) 556-8171
Fax: (843) 766-1178

682059
682055

Client Name: GA Power Phone # 404-506-7116
Project/Site Name: Plant Kraft - Grumman Road Landfill Fax #
Address: 241 Ralph McGill Blvd SE, Atlanta GA 30308
Collected By: T. Goble/D. Johnson ACC Send Results To: SCS & ACC Contacts

Sample Analysis Requested (5) (Fill in the number of containers for each test)

Sample ID * For composites - indicate start and stop date/time	*Date Collected (mm-dd-yy)	*Time Collected (Military) (hhmm)	QC Code (2)	Field Filtered (3)	Sample Matrix (4)	Should this sample be considered: Radioactive (If yes, please supply isotopic info.)	Should this sample be considered: (7) Known or possible Hazards	Total number of containers	Cl, F, SO4, TDS EPA 300, SM 2540C	NI Metals * EPA 6020, 6010, 7470	NI Radium 226 & 228 SW-846 9315, 9320	<-- Preservative Type (6)
KRA- GWA-7	08-19-24	1635	G	N	WG	N	N	6	✓	✓	✓	
KRA- GWA-8	08-19-24	1623	G	N	WG	N	N	6	✓	✓	✓	
KRA- GWB-6R	08-20-24	0933	G	N	WG	N	N	6	✓	✓	✓	
KRA- GWB-4R	08-20-24	1127	G	N	WG	N	N	6	✓	✓	✓	
KRA- GWC-21	08-20-24	0953	G	N	WG	N	N	6	✓	✓	✓	
KRA- GWC-16	08-20-24	1203	G	N	WG	N	N	6	✓	✓	✓	
KRA- MW-26D	08-20-24	1317	G	N	WG	N	N	6	✓	✓	✓	
KRA- MW-24D	08-20-24	1312	G	N	WG	N	N	6	✓	✓	✓	
KRA- GWC-1	08-20-24	1441	G	N	WG	N	N	6	✓	✓	✓	
KRA- GWC-15	08-20-24	1445	G	N	WG	N	N	6	✓	✓	✓	

Comments
Note: extra sample is required for sample specific QC
Task_Code: KRA-CCR-ASSMT-2024S2

Chain of Custody Signatures

	Relinquished By (Signed)	Date	Time	Received by (signed)	Date	Time
1	Taylor Goble	8-21-24	0832	T Taylor	8.21 24	08:30
2	T Taylor 8.21.24		1100	Stacy Boone	8/21/24	1100
3						

TAT Requested: Normal: x Rush: ____ Specify: ____ (Subject to Surcharge)

Fax Results: [ ] Yes [x] No

Select Deliverable: [ ] C of A [ ] QC Summary [ ] level 1 [x] Level 2 [ ] Level 3 [ ] Level 4

Additional Remarks: * **Metals: B,Ca,Sb,As,Ba,Be,Cd,Cr,Co,Pb,Li,Mo,Se,Tl,V,Zn,Hg**

For Lab Receiving Use Only: *Custody Seal Intact?* [ ] *Yes* [ ] *No* *Cooler Temp:* 1 °C

> *For sample shipping and delivery details, see Sample Receipt & Review form (SRR.)*

Sample Collection Time Zone: [x] Eastern [ ] Pacific [ ] Central [ ] Mountain [ ] Other:

1.) Chain of Custody Number = Client Determined

2.) QC Codes: **N** = Normal Sample, **TB** = Trip Blank, **FD** = Field Duplicate, **EB** = Equipment Blank, **MS** = Matrix Spike Sample, **MSD** = Matrix Spike Duplicate Sample, **G** = Grab, **C** = Composite

3.) Field Filtered: For liquid matrices, indicate with a **- Y -** for yes the sample was field filtered or **- N -** for sample was not field filtered.

4.) Matrix Codes: **WD**=Drinking Water, **WG**=Groundwater, **WS**=Surface Water, **WW**=Waste Water, **WL**=Leachate, **SO**=Soil, **SE**=Sediment, **SL**=Sludge, **WQ**=Water Quality Control Matrix

5.) Sample Analysis Requested: Analytical method requested (i.e. **8260B, 6010B/7470A**) and number of containers provided for each (i.e. *8260B* **- 3**, *6010B/7470A* **- 1**).

6.) Preservative Type: **HA** = Hydrochloric Acid, **NI** = Nitric Acid, **SH** = Sodium Hydroxide, **SA** = Sulfuric Acid, **AA** = Ascorbic Acid, **HX** = Hexane, **ST** = Sodium Thiosulfate, If no preservative is added = leave field blank

7.) **KNOWN OR POSSIBLE HAZARDS**

RCRA Metals
As = Arsenic **Hg**= Mercury
Ba = Barium **Se**= Selenium
Cd = Cadmium **Ag**= Silver
Cr = Chromium **MR**= Misc. RCRA metals
Pb = Lead

Characteristic Hazards
FL = Flammable/Ignitable
CO = Corrosive
RE = Reactive

TSCA Regulated
PCB = Polychlorinated biphenyls

Listed Waste
LW= Listed Waste
(F,K,P and U-listed wastes.)
Waste code(s):

Other
OT= Other / Unknown
(i.e.: High/low pH, asbestos, beryllium, irritants, other misc. health hazards, etc.)
Description:

Please provide any additional details below regarding handling and/or disposal concerns. (i.e.: Origin of sample(s), type of site collected from, odd matrices, etc.)

Page: 2 of 2
Project #
GEL Quote #:
COC Number (1):
PO Number: GPC82177-0004

GEL Laboratories LLC
gel.com
Chemistry | Radiochemistry | Radiobioassay | Specialty Analytics

Chain of Custody and Analytical Request

GEL Work Order Number: *GEL Project Manager: Erin Trent*

GEL Laboratories, LLC
2040 Savage Road
Charleston, SC 29407
Phone: (843) 556-8171
Fax: (843) 766-1178

Client Name: GA Power Phone # 404-506-7116
Project/Site Name: Plant Kraft - Grumman Road Landfill Fax #
Address: 241 Ralph McGill Blvd SE, Atlanta GA 30308
Collected By: T. Goble / D. Johnson ACC Send Results To: SCS & ACC Contacts

Sample Analysis Requested (5) (Fill in the number of containers for each test)

Sample ID (* For composites - indicate start and stop date/time)	*Date Collected (mm-dd-yy)	*Time Collected (Military) (hhmm)	QC Code (2)	Field Filtered (3)	Sample Matrix (4)	Should this sample be considered: Radioactive (If yes, please supply isotopic info.)	(7) Known or possible Hazards	Total number of containers	Cl, F, SO4, TDS EPA 300, SM 2540C	NI Metals * EPA 6020, 6010, 7470	NI Radium 226 & 228 SW-846 9315, 9320	<-- Preservative Type (6)	Comments
KRA- GWC-17	08-20-24	1556	G	N	WG	N	N	6	✓	✓	✓		Note: extra sample is required for sample specific QC Task_Code: KRA-CCR-ASSMT-2024S2
KRA- GRL-FD-01	08-20-24	—	G	N	WG	N	N	6	✓	✓	✓		
KRA- GRL-FD-02	08-20-24	—	G	N	WG	N	N	6	✓	✓	✓		
KRA- GRL-FB-01	08-20-24	1030	G	N	WQ	N	N	6	✓	✓	✓		
KRA- GRL-EB-04	08-20-24	1350	G	N	WQ	N	N	6	✓	✓	✓		
KRA-													
KRA-													
KRA-													
KRA-													
KRA-													

Chain of Custody Signatures

	Relinquished By (Signed)	Date	Time	Received by (signed)	Date	Time
1	Taylor Goble	8-21-24	0832	Taylor	8.21.24	08:32
2	Taylor 8.21.24	1130		Stacy Boone	8/21/24	1100
3						

> *For sample shipping and delivery details, see Sample Receipt & Review form (SRR.)*

TAT Requested: Normal: x Rush: ____ Specify: ____ (Subject to Surcharge)

Fax Results: [ ] Yes [x] No

Select Deliverable: [ ] C of A [ ] QC Summary [ ] level 1 [x] Level 2 [ ] Level 3 [ ] Level 4

Additional Remarks: * **Metals: B,Ca,Sb,As,Ba,Be,Cd,Cr,Co,Pb,Li,Mo,Se,Tl,V,Zn,Hg**

For Lab Receiving Use Only: *Custody Seal Intact?* [ ] Yes [ ] No *Cooler Temp:* 1 °C

Sample Collection Time Zone: [x] Eastern [ ] Pacific [ ] Central [ ] Mountain [ ] Other:

1.) Chain of Custody Number = Client Determined

2.) QC Codes: **N** = Normal Sample, **TB** = Trip Blank, **FD** = Field Duplicate, **EB** = Equipment Blank, **MS** = Matrix Spike Sample, **MSD** = Matrix Spike Duplicate Sample, **G** = Grab, **C** = Composite

3.) Field Filtered: For liquid matrices, indicate with a **- Y -** for yes the sample was field filtered or **- N -** for sample was not field filtered.

4.) Matrix Codes: **WD**=Drinking Water, **WG**=Groundwater, **WS**=Surface Water, **WW**=Waste Water, **WL**=Leachate, **SO**=Soil, **SE**=Sediment, **SL**=Sludge, **WQ**=Water Quality Control Matrix

5.) Sample Analysis Requested: Analytical method requested (i.e. **8260B, 6010B/7470A**) and number of containers provided for each (i.e. *8260B* - **3**, *6010B/7470A* - **1**).

6.) Preservative Type: **HA** = Hydrochloric Acid, **NI** = Nitric Acid, **SH** = Sodium Hydroxide, **SA** = Sulfuric Acid, **AA** = Ascorbic Acid, **HX** = Hexane, **ST** = Sodium Thiosulfate, If no preservative is added = leave field blank

7.) **KNOWN OR POSSIBLE HAZARDS**

RCRA Metals
As = Arsenic **Hg**= Mercury
Ba = Barium **Se**= Selenium
Cd = Cadmium **Ag**= Silver
Cr = Chromium **MR**= Misc. RCRA metals
Pb = Lead

Characteristic Hazards
FL = Flammable/Ignitable
CO = Corrosive
RE = Reactive

TSCA Regulated
PCB = Polychlorinated biphenyls

Listed Waste
LW= Listed Waste
(F,K,P and U-listed wastes.)
Waste code(s):

Other
OT= Other / Unknown
(i.e.: High/low pH, asbestos, beryllium, irritants, other misc. health hazards, etc.)
Description:

Please provide any additional details below regarding handling and/or disposal concerns. (i.e.: Origin of sample(s), type of site collected from, odd matrices, etc.)

682055
682062
682059

GEL Laboratories LLC

SAMPLE RECEIPT & REVIEW FORM

Client: GPCC	**SDG/AR/COC/Work Order:** A-P.
Received By: Thyasia Tatum	**Date Received:** 8/21/24
Carrier and Tracking Number	Circle Applicable: FedEx Express FedEx Ground UPS Field Services Courier Other

Suspected Hazard Information	Yes	No	
			*If Net Counts > 100cpm on samples not marked "radioactive", contact the Radiation Safety Group for further investigation.
A)Shipped as a DOT Hazardous?		✓	Hazard Class Shipped: UN#: If UN2910, Is the Radioactive Shipment Survey Compliant? Yes___ No___
B) Did the client designate the samples are to be received as radioactive?		✓	COC notation or radioactive stickers on containers equal client designation.
C) Did the RSO classify the samples as radioactive?		✓	Maximum Net Counts Observed* (Observed Counts - Area Background Counts): 0 CPM / mR/Hr **Classified as: Rad 1 Rad 2 Rad 3**
D) Did the client designate samples are hazardous?		✓	COC notation or hazard labels on containers equal client designation.
E) Did the RSO identify possible hazards?		✓	If D or E is yes, select Hazards below. PCB's Flammable Foreign Soil RCRA Asbestos Beryllium Other:

	Sample Receipt Criteria	Yes	NA	No	Comments/Qualifiers (Required for Non-Conforming Items)
1	Shipping containers received intact and sealed?	✓			Circle Applicable: Seals broken Damaged container Leaking container Other (describe)
2	Chain of custody documents included with shipment?	✓			Circle Applicable: Client contacted and provided COC COC created upon receipt
3	Samples requiring cold preservation within (0 ≤ 6 deg. C)?*	✓			Preservation Method: (Wet Ice) Ice Packs Dry ice None Other: *all temperatures are recorded in Celsius TEMP: 2C
4	Daily check performed and passed on IR temperature gun?	✓			Temperature Device Serial #: IR2-23 Secondary Temperature Device Serial # (If Applicable):
5	Sample containers intact and sealed?	✓			Circle Applicable: Seals broken Damaged container Leaking container Other (describe)
6	Samples requiring chemical preservation at proper pH?	✓			Sample ID's and Containers Affected: If Preservation added, Lot#:
7	Do any samples require Volatile Analysis?			✓	If Yes, are Encores or Soil Kits present for solids? Yes___ No___ NA___(If yes, take to VOA Freezer) Do liquid VOA vials contain acid preservation? Yes___ No___ NA___(If unknown, select No) Are liquid VOA vials free of headspace? Yes___ No___ NA___ Sample ID's and containers affected:
8	Samples received within holding time?	✓			ID's and tests affected:
9	Sample ID's on COC match ID's on bottles?	✓			ID's and containers affected:
10	Date & time on COC match date & time on bottles?	✓			Circle Applicable: No dates on containers No times on containers COC missing info Other (describe)
11	Number of containers received match number indicated on COC?			✓	Circle Applicable: No container count on COC Other (describe) RECEIVED NPA-GWA-7 (METALS F/F) NOT ON COC HB 8/22
12	Are sample containers identifiable as GEL provided by use of GEL labels?	✓			
13	COC form is properly signed in relinquished/received sections?	✓			Circle Applicable: Not relinquished Other (describe)

Comments (Use Continuation Form if needed):

PM (or PMA) review: Initials HB Date 8/22/24 Page 1 of 1

GL-CHL-SR-001 Rev 7

Page: 1 of 2
Project #
GEL Quote #:
COC Number (1):
PO Number: GPC82177-0004

GEL Laboratories LLC
Chemistry | Radiochemistry | Radiobioassay | Specialty Analytics

Chain of Custody and Analytical Request

GEL Work Order Number: **GEL Project Manager: Erin Trent**

GEL Laboratories, LLC
2040 Savage Road
Charleston, SC 29407
Phone (843) 556-8171
Fax (843) 766-1178

Client Name: GA Power — Phone # 404-506-7116
Project/Site Name: Plant Kraft - Grumman Road Landfill — Fax #
Address: 241 Ralph McGill Blvd SE, Atlanta GA 30308
Collected By: ACC — Send Results To: SCS & ACC Contacts

Sample Analysis Requested (5) (Fill in the number of containers for each test)

Sample ID * For composites - indicate start and stop date/time	*Date Collected (mm-dd-yy)	*Time Collected (Military) (hhmm)	QC Code (2)	Field Filtered (3)	Sample Matrix (4)	Should this sample be considered: Radioactive (If yes, please supply isotope info.)	Should this sample be considered: (7) Known or possible Hazards	Total number of containers	Cl, F, SO4, TDS EPA 300, SM 2540C	Metals * EPA 6020, 6010, 7470	Radium 226 & 228 SW-846 9315, 9320	<- Preservative Type (6)	Comments
KRA- GWA-7	08-19-24	1635	G	N	WG	N	N	6	✓	✓	✓		Note extra sample is required for sample specific QC Task_Code: KRA-CCR-ASSMT-202452
KRA- GWA-8	08-19-24	1623	G	N	WG	N	N	6	✓	✓	✓	BMcD	cancel
KRA- GWB-6R	08-20-24	0933	G	N	WG	N	N	6	✓	✓	✓		
KRA- GWB-4R	08-20-24	1127	G	N	WG	N	N	6	✓	✓	✓		
KRA- GWC-21	08-20-24	0953	G	N	WG	N	N	6	✓	✓	✓	BMcD	cancel
KRA- GWC-16	08-20-24	1203	G	N	WG	N	N	6	✓	✓	✓	BMcD	cancel
KRA- MW-26D	08-20-24	1317	G	N	WG	N	N	6	✓	✓	✓		
KRA- MW-24D	08-20-24	1312	G	N	WG	N	N	6	✓	✓	✓	BMcD	cancel
KRA- GWC-1	08-20-24	1441	G	N	WG	N	N	6	✓	✓	✓		
KRA- GWC-15	08-20-24	1445	G	N	WG	N	N	6	✓	✓	✓	BMcD 9/27/24	cancel

Chain of Custody Signatures

Relinquished By (Signed)	Date	Time	Received by (signed)	Date	Time
1			1		
2			2		
3			3		

TAT Requested: Normal: x Rush: ____ Specify: ____ (Subject to Surcharge)

Fax Results: [ ] Yes [x] No

Select Deliverable: [ ] C of A [ ] QC Summary [ ] level 1 [x] Level 2 [ ] Level 3 [ ] Level 4

Additional Remarks: * Metals: B,Ca,Sb,As,Ba,Be,Cd,Cr,Co,Pb,Li,Mo,Se,Tl,V,Zn,Hg

For Lab Receiving Use Only: Custody Seal Intact? [ ] Yes [ ] No Cooler Temp: ____ °C

> For sample shipping and delivery details, see Sample Receipt & Review form (SRR)

Sample Collection Time Zone [x] Eastern [ ] Pacific [ ] Central [ ] Mountain [ ] Other:

1) Chain of Custody Number = Client Determined

2) QC Codes N = Normal Sample, TB = Trip Blank, FD = Field Duplicate, EB = Equipment Blank, MS = Matrix Spike Sample, MSD = Matrix Spike Duplicate Sample, G = Grab, C = Composite

3) Field Filtered For liquid matrices, indicate with a - Y - for yes the sample was field filtered or - N - for sample was not field filtered

4) Matrix Codes WD=Drinking Water, WG=Groundwater, WS=Surface Water, WW=Waste Water, WL=Leachate, SO=Soil, SE=Sediment, SL=Sludge, WQ=Water Quality Control Matrix

5) Sample Analysis Requested Analytical method requested (i.e. *8260B, 6010B/7470A*) and number of containers provided for each (i.e. *8260B - 3, 6010B/7470A - 1*)

6) Preservative Type HA = Hydrochloric Acid, NI = Nitric Acid, SH = Sodium Hydroxide, SA = Sulfuric Acid, AA = Ascorbic Acid, HX = Hexane, ST = Sodium Thiosulfate, If no preservative is added = leave field blank

7) KNOWN OR POSSIBLE HAZARDS

RCRA Metals
As = Arsenic; Hg= Mercury
Ba = Barium; Se= Selenium
Cd = Cadmium; Ag= Silver
Cr = Chromium; MR= Misc. RCRA metals
Pb = Lead

Characteristic Hazards
FL = Flammable/Ignitable
CO = Corrosive
RE = Reactive

TSCA Regulated
PCB = Polychlorinated biphenyls

Listed Waste
LW= Listed Waste
(F,K,P and U-listed wastes.)
Waste code(s):

Other
OT= Other / Unknown
(i.e.: High/low pH, asbestos, beryllium, irritants, other misc. health hazards, etc.)
Description:

Please provide any additional details below regarding handling and/or disposal concerns. *(i.e. Origin of sample(s), type of site collected from, odd matrices, etc.)*

Page 2 of 2
Project #
GEL Quote #
COC Number (1)
PO Number GPC82177-0004

GEL Laboratories LLC
Chemistry | Radiochemistry | Radiobioassay | Specialty Analytics
Chain of Custody and Analytical Request

GEL Work Order Number:
GEL Project Manager: Erin Trent

GEL Laboratories, LLC
2040 Savage Road
Charleston, SC 29407
Phone (843) 556-8171
Fax (843) 766-1178

Client Name: GA Power — Phone # 404-506-7116
Project/Site Name: Plant Kraft - Grumman Road Landfill — Fax #
Address: 241 Ralph McGill Blvd SE, Atlanta GA 30308
Collected By: ACC — Send Results To: SCS & ACC Contacts

Sample Analysis Requested (2) (Fill in the number of containers for each test)

Sample ID (* For composites - indicate start and stop date/time)	*Date Collected (mm-dd-yy)	*Time Collected (Military) (hhmm)	QC Code (2)	Field Filtered (3)	Sample Matrix (4)	Should this sample be considered: Radioactive (If yes, please supply isotopic info.)	Should this sample be considered: (7) Known or possible Hazards	Total number of containers	Cl, F, SO4, TDS EPA 300, SM 2540C	Metals * EPA 6020, 6010, 7470	Radium 226 & 228 SW 846 9315, 9320											<= Preservative Type (6)	Comments
KRA- GWC-17	08-20-24	1556	G	N	WG	N	N	6	✓	✓	✓												
KRA- GRL-FD-01	08-20-24	—	G	N	WG	N	N	6	✓	✓	✓											BMcD	Cancel
KRA- GRL-FD-02	08-20-24	—	G	N	WG	N	N	6	✓	✓	✓											BMcD 8/21/24	Cancel
KRA- GRL-FB-01	08-20-24	1030	G	N	WQ	N	N	6	✓	✓	✓												
KRA- GRL-EB-04	08-20-24	1350	G	N	WQ	N	N	6	✓	✓	✓												
KRA-																							
KRA-																							
KRA-																							
KRA-																							
KRA-																							

Comments: Note extra sample is required for sample specific QC. Task_Code: KRA-CCR-ASSMT-202452

Chain of Custody Signatures

Relinquished By (Signed)	Date	Time	Received by (signed)	Date	Time
1			1		
2			2		
3			3		

TAT Requested: Normal: x Rush: ____ Specify: ____ (Subject to Surcharge)

Fax Results [ ] Yes [x] No

Select Deliverable [ ] C of A [ ] QC Summary [ ] Level 1 [x] Level 2 [ ] Level 3 [ ] Level 4

Additional Remarks: * Metals: B,Ca,Sb,As,Ba,Be,Cd,Cr,Co,Pb,Li,Mo,Se,Tl,V,Zn,Hg

For Lab Receiving Use Only: Custody Seal Intact? [ ] Yes [ ] No Cooler Temp: ____ °C

> For sample shipping and delivery details, see Sample Receipt & Review form (SRR).

Sample Collection Time Zone: [x] Eastern [ ] Pacific [ ] Central [ ] Mountain [ ] Other

1) Chain of Custody Number = Client Determined

2) QC Codes: N = Normal Sample, TB = Trip Blank, FD = Field Duplicate, EB = Equipment Blank, MS = Matrix Spike Sample, MSD = Matrix Spike Duplicate Sample, G = Grab, C = Composite

3) Field Filtered: For liquid matrices, indicate with a - Y - for yes the sample was field filtered or - N - for sample was not field filtered.

4) Matrix Codes: WD=Drinking Water, WG=Groundwater, WS=Surface Water, WW=Waste Water, WL=Leachate, SO=Soil, SE=Sediment, SL=Sludge, WQ=Water Quality Control Matrix

5) Sample Analysis Requested: Analytical method requested (i.e. 8260B, 6010B/7470A) and number of containers provided for each (i.e. 8260B - 3, 6010B/7470A - 1)

6) Preservative Type: HA = Hydrochloric Acid, NI = Nitric Acid, SH = Sodium Hydroxide, SA = Sulfuric Acid, AA = Ascorbic Acid, HX = Hexane, ST = Sodium Thiosulfate, If no preservative is added = leave field blank

7) **KNOWN OR POSSIBLE HAZARDS**

RCRA Metals
As = Arsenic, Ba = Barium, Cd = Cadmium, Cr = Chromium, Pb = Lead, Hg = Mercury, Se = Selenium, Ag = Silver, MR = Misc. RCRA metals

Characteristic Hazards
FL = Flammable/Ignitable
CO = Corrosive
RE = Reactive

TSCA Regulated
PCB = Polychlorinated biphenyls

Listed Waste
LW = Listed Waste
(F,K,P and U-listed wastes.)
Waste code(s):

Other
OT = Other / Unknown
(i.e.: High/low pH, asbestos, beryllium, irritants, other misc. health hazards, etc.)
Description:

Please provide any additional details below regarding handling and/or disposal concerns. (i.e. Origin of sample(s), type of site collected from, odd matrices, etc.)

List of current GEL Certifications as of 03 October 2024

State	Certification
Alabama	42200
Alaska	17-018
Alaska Drinking Water	SC00012
Arkansas	88-00651
CLIA	42D0904046
California	2940
Colorado	SC00012
Connecticut	PH-0169
DoD ELAP/ ISO17025 A2LA	2567.01
Florida NELAP	E87156
Foreign Soils Permit	P330-15-00283, P330-15-00253
Georgia	SC00012
Georgia SDWA	967
Hawaii	SC00012
Idaho	SC00012
Illinois NELAP	200029
Indiana	C-SC-01
Kansas NELAP	E-10332
Kentucky SDWA	KY90129
Kentucky Wastewater	KY90129
Louisiana Drinking Water	LA024
Louisiana NELAP	03046 (AI33904)
Maine	2023019
Maryland	270
Massachusetts	M-SC012
Massachusetts PFAS Approv	Letter
Michigan	9976
Mississippi	SC00012
Nebraska	NE-OS-26-13
Nevada	NV-C24-00175
New Hampshire NELAP	205424
New Jersey NELAP	SC002
New Mexico	SC00012
New York NELAP	11501
North Carolina	233
North Carolina SDWA	45709
North Dakota	R-158
Oklahoma	2023-152
Pennsylvania NELAP	68-00485
Puerto Rico	SC00012
S. Carolina Radiochem	10120002
Sanitation Districts of L	9255651
South Carolina Chemistry	10120001
Tennessee	TN 02934
Texas NELAP	T104704235
Utah NELAP	SC000122024-41
Vermont	VT87156
Virginia NELAP	460202
Washington	C780

GEL Laboratories LLC
a member of The GEL Group INC

2040 Savage Road | Charleston, SC 29407
843.556.8171
gel.com

September 05, 2024

Kristen Jurinko
Georgia Power Company
241 Ralph McGill Blvd NE
Bin 10160
Atlanta, Georgia 30308

Re: Kraft - Grumman Road Landfill CCR Groundwater Compliance
Work Order: 682062

Dear Kristen Jurinko:

GEL Laboratories, LLC (GEL) appreciates the opportunity to provide the enclosed analytical results for the sample(s) we received on August 21, 2024. This original data report has been prepared and reviewed in accordance with GEL's standard operating procedures.

The sample was delivered with proper chain of custody documentation and signatures. All sample containers arrived without any visible signs of tampering or breakage. There are no additional comments concerning sample receipt. The laboratory received the following sample(s):

Laboratory ID	Client ID	Matrix	Date Collected	Date Received
682062001	KRA-GWA-7	Ground Water	08/19/24 16:35	08/21/24 11:00

Test results for NELAP or ISO 17025 accredited tests are verified to meet the requirements of those standards, with any exceptions noted. The results reported relate only to the items tested and to the sample as received by the laboratory. These results may not be reproduced except as full reports without approval by the laboratory. Copies of GEL's accreditations and certifications can be found on our website at www.gel.com.

Prep Methods and Prep Dates

Method	Run Date ID
SW846 3005A	23-AUG-2024
SW846 7470A Prep	22-AUG-2024

Analysis Methods and Analysis Dates

Method	Run Date ID
SW846 3005A/6020B	01-SEP-2024
SW846 3005A/6020B	02-SEP-2024
SW846 7470A	23-AUG-2024

Our policy is to provide high quality, personalized analytical services to enable you to meet your analytical needs on time every time. We trust that you will find everything in order and to your satisfaction. If you have any questions, please do not hesitate to call me at (843) 556-8171, ext. 4443.

Sincerely,

Will James for
Alaina Pinnick
Project Manager

Purchase Order: GPC82177-0004
Enclosures

GEL LABORATORIES LLC
2040 Savage Road Charleston SC 29407 - (843) 556-8171 - www.gel.com

Certificate of Analysis Report
for

GPCC001 Georgia Power Company

Client SDG: 682062 GEL Work Order: 682062

The Qualifiers in this report are defined as follows:

* A quality control analyte recovery is outside of specified acceptance criteria

** Analyte is a Tracer compound

** Analyte is a surrogate compound

B Either presence of analyte detected in the associated blank, or MDL/IDL < sample value < PQL

J Value is estimated

N Metals--The Matrix spike sample recovery is not within specified control limits

N/A RPD or %Recovery limits do not apply.

U Analyte was analyzed for, but not detected above the MDL, MDA, MDC or LOD.

Where the analytical method has been performed under NELAP certification, the analysis has met all of the requirements of the NELAC standard unless qualified on the Certificate of Analysis.

The designation ND, if present, appears in the result column when the analyte concentration is not detected above the limit as defined in the 'U' qualifier above.

This data report has been prepared and reviewed in accordance with GEL Laboratories LLC standard operating procedures. Please direct any questions to your Project Manager, Alaina Pinnick.

Reviewed by Will James

GEL LABORATORIES LLC
2040 Savage Road Charleston SC 29407 - (843) 556-8171 - www.gel.com

Certificate of Analysis

Report Date: September 5, 2024

Company :	Georgia Power Company
Address :	241 Ralph McGill Blvd NE Bin 10160 Atlanta, Georgia 30308
Contact:	Kristen Jurinko
Project:	Kraft - Grumman Road Landfill CCR Groundwater Compliance

Client Sample ID:	KRA-GWA-7	Project:	GPCC00102
Sample ID:	682062001	Client ID:	GPCC001
Matrix:	WG		
Collect Date:	19-AUG-24 16:35		
Receive Date:	21-AUG-24		
Collector:	Client		

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Mercury Analysis-CVAA												
7470 Cold Vapor Dissolved Mercury, Liquid "As Received"												
Mercury	U	ND	0.0000670	0.000200	mg/L	1.00	1	JP2	08/23/24	1123	2661034	1
Metals Analysis-ICP-MS												
SW846 3005A/6020B Dissolved "As Received"												
Boron		11.6	0.520	1.50	mg/L	1.00	100	BAJ	09/02/24	1238	2661558	2
Antimony	U	ND	0.00100	0.00300	mg/L	1.00	1	BAJ	09/01/24	2110	2661558	3
Arsenic	J	0.00256	0.00200	0.00500	mg/L	1.00	1					
Barium		0.199	0.000670	0.00400	mg/L	1.00	1					
Beryllium	U	ND	0.000200	0.000500	mg/L	1.00	1					
Cadmium	U	ND	0.000300	0.00100	mg/L	1.00	1					
Calcium		3.12	0.0800	0.200	mg/L	1.00	1					
Chromium		0.0117	0.00300	0.0100	mg/L	1.00	1					
Cobalt		0.00139	0.000300	0.00100	mg/L	1.00	1					
Lead	U	ND	0.000500	0.00200	mg/L	1.00	1					
Lithium	U	ND	0.00300	0.0100	mg/L	1.00	1					
Molybdenum	J	0.000224	0.000200	0.00100	mg/L	1.00	1					
Selenium		0.00687	0.00150	0.00500	mg/L	1.00	1					
Thallium	U	ND	0.000600	0.00200	mg/L	1.00	1					
Vanadium		0.130	0.00330	0.0200	mg/L	1.00	1					
Zinc	U	ND	0.00330	0.0200	mg/L	1.00	1					

The following Prep Methods were performed:

Method	Description	Analyst	Date	Time	Prep Batch
SW846 7470A Prep	EPA 7470A Mercury Prep Liquid	JM13	08/22/24	1110	2661033
SW846 3005A	ICP-MS 3005A PREP	BB2	08/23/24	1445	2661557

The following Analytical Methods were performed:

Method	Description	Analyst Comments
1	SW846 7470A	
2	SW846 3005A/6020B	
3	SW846 3005A/6020B	

Notes:

GEL LABORATORIES LLC
2040 Savage Road Charleston SC 29407 - (843) 556-8171 - www.gel.com

Certificate of Analysis

Report Date: September 5, 2024

Company :	Georgia Power Company
Address :	241 Ralph McGill Blvd NE Bin 10160 Atlanta, Georgia 30308
Contact:	Kristen Jurinko
Project:	Kraft - Grumman Road Landfill CCR Groundwater Compliance

Client Sample ID:	KRA-GWA-7	Project:	GPCC00102
Sample ID:	682062001	Client ID:	GPCC001

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method

Column headers are defined as follows:

DF: Dilution Factor	Lc/LC: Critical Level
DL: Detection Limit	PF: Prep Factor
MDA: Minimum Detectable Activity	RL: Reporting Limit
MDC: Minimum Detectable Concentration	SQL: Sample Quantitation Limit

QC Summary

Report Date: September 5, 2024

Georgia Power Company
241 Ralph McGill Blvd NE
Bin 10160
Atlanta, Georgia

Contact: **Kristen Jurinko**

Workorder: **682062**

Parmname	NOM	Sample	Qual	QC	Units	RPD%	REC%	Range	Anlst	Date Time
Metals Analysis - ICPMS										
Batch 2661558										
QC1205831918 LCS										
Antimony	0.0500			0.0499	mg/L		99.7	(80%-120%)	BAJ	09/01/24 19:37
Arsenic	0.0500			0.0493	mg/L		98.6	(80%-120%)		
Barium	0.0500			0.0489	mg/L		97.9	(80%-120%)		
Beryllium	0.0500			0.0485	mg/L		97	(80%-120%)		
Boron	0.100			0.0952	mg/L		95.2	(80%-120%)		09/02/24 12:10
Cadmium	0.0500			0.0490	mg/L		98.1	(80%-120%)		09/01/24 19:37
Calcium	2.00			2.08	mg/L		104	(80%-120%)		
Chromium	0.0500			0.0502	mg/L		100	(80%-120%)		
Cobalt	0.0500			0.0494	mg/L		98.9	(80%-120%)		
Lead	0.0500			0.0489	mg/L		97.9	(80%-120%)		
Lithium	0.0500			0.0491	mg/L		98.2	(80%-120%)		
Molybdenum	0.0500			0.0477	mg/L		95.3	(80%-120%)		

QC Summary

Workorder: **682062**

Parmname	NOM	Sample	Qual	QC	Units	RPD%	REC%	Range	Anlst	Date Time
Metals Analysis - ICPMS										
Batch 2661558										
Selenium	0.0500			0.0503	mg/L		101	(80%-120%)	BAJ	09/01/24 19:37
Thallium	0.0500			0.0466	mg/L		93.1	(80%-120%)		
Vanadium	0.0500			0.0488	mg/L		97.5	(80%-120%)		
Zinc	0.0500			0.0498	mg/L		99.6	(80%-120%)		
QC1205831917 MB										
Antimony			U	ND	mg/L					09/01/24 19:34
Arsenic			U	ND	mg/L					
Barium			U	ND	mg/L					
Beryllium			U	ND	mg/L					
Boron			U	ND	mg/L					09/02/24 12:09
Cadmium			U	ND	mg/L					09/01/24 19:34
Calcium			U	ND	mg/L					
Chromium			U	ND	mg/L					
Cobalt			U	ND	mg/L					
Lead			U	ND	mg/L					

QC Summary

Workorder: **682062**

Parmname	NOM		Sample	Qual	QC	Units	RPD%	REC%	Range	Anlst	Date Time
Metals Analysis - ICPMS											
Batch 2661558											
Lithium				U	ND	mg/L				BAJ	09/01/24 19:34
Molybdenum				U	ND	mg/L					
Selenium				U	ND	mg/L					
Thallium				U	ND	mg/L					
Vanadium				U	ND	mg/L					
Zinc				U	ND	mg/L					
QC1205831919 682055001 MS											
Antimony	0.0500	U	ND		0.0553	mg/L		110	(75%-125%)		09/01/24 19:48
Arsenic	0.0500	J	0.00287		0.0589	mg/L		112	(75%-125%)		
Barium	0.0500		0.201		0.266	mg/L		N/A	(75%-125%)		
Beryllium	0.0500	U	ND		0.0490	mg/L		97.7	(75%-125%)		
Boron	0.100		10.5		11.6	mg/L		N/A	(75%-125%)		09/02/24 12:27
Cadmium	0.0500	U	ND		0.0501	mg/L		100	(75%-125%)		09/01/24 19:48
Calcium	2.00		3.36		5.64	mg/L		114	(75%-125%)		
Chromium	0.0500		0.0123		0.0647	mg/L		105	(75%-125%)		

QC Summary

Workorder: **682062**

Parmname	NOM		Sample	Qual	QC	Units	RPD%	REC%	Range	Anlst	Date Time
Metals Analysis - ICPMS											
Batch 2661558											
Cobalt	0.0500		0.00150		0.0507	mg/L		98.4	(75%-125%)	BAJ	09/01/24 19:48
Lead	0.0500	J	0.000838		0.0482	mg/L		94.6	(75%-125%)		
Lithium	0.0500	U	ND		0.0535	mg/L		106	(75%-125%)		
Molybdenum	0.0500	J	0.000468		0.0570	mg/L		113	(75%-125%)		
Selenium	0.0500		0.00709		0.0593	mg/L		104	(75%-125%)		
Thallium	0.0500	U	ND		0.0467	mg/L		93.2	(75%-125%)		
Vanadium	0.0500		0.125		0.186	mg/L		123	(75%-125%)		
Zinc	0.0500	J	0.00727		0.0558	mg/L		97	(75%-125%)		
QC1205831920 682055001 MSD											
Antimony	0.0500	U	ND		0.0500	mg/L	9.99	99.4	(0%-20%)		09/01/24 19:51
Arsenic	0.0500	J	0.00287		0.0537	mg/L	9.12	102	(0%-20%)		
Barium	0.0500		0.201		0.234	mg/L	12.6	N/A	(0%-20%)		
Beryllium	0.0500	U	ND		0.0456	mg/L	7.13	91	(0%-20%)		
Boron	0.100		10.5		10.7	mg/L	8.41	N/A	(0%-20%)		09/02/24 12:28
Cadmium	0.0500	U	ND		0.0455	mg/L	9.5	90.9	(0%-20%)		09/01/24 19:51

QC Summary

Workorder: **682062**

Parmname	NOM		Sample	Qual	QC	Units	RPD%	REC%	Range	Anlst	Date	Time
Metals Analysis - ICPMS												
Batch 2661558												
Calcium	2.00		3.36		5.16	mg/L	8.89	89.8	(0%-20%)	BAJ	09/01/24	19:51
Chromium	0.0500		0.0123		0.0587	mg/L	9.64	92.8	(0%-20%)			
Cobalt	0.0500		0.00150		0.0465	mg/L	8.71	90	(0%-20%)			
Lead	0.0500	J	0.000838		0.0436	mg/L	10	85.4	(0%-20%)			
Lithium	0.0500	U	ND		0.0497	mg/L	7.29	98.8	(0%-20%)			
Molybdenum	0.0500	J	0.000468		0.0513	mg/L	10.5	102	(0%-20%)			
Selenium	0.0500		0.00709		0.0531	mg/L	11	92.1	(0%-20%)			
Thallium	0.0500	U	ND		0.0422	mg/L	9.97	84.4	(0%-20%)			
Vanadium	0.0500		0.125		0.169	mg/L	10.1	87.5	(0%-20%)			
Zinc	0.0500	J	0.00727		0.0507	mg/L	9.56	86.8	(0%-20%)			
QC1205831921 682055001 SDILT												
Antimony		U	ND	U	ND	ug/L	N/A		(0%-20%)		09/01/24	19:57
Arsenic		J	2.87	U	ND	ug/L	N/A		(0%-20%)			
Barium			201		40.3	ug/L	.0164		(0%-20%)			
Beryllium		U	ND	U	ND	ug/L	N/A		(0%-20%)			

QC Summary

Workorder: **682062**

Parmname	NOM	Sample	Qual	QC	Units	RPD%	REC%	Range	Anlst	Date Time
Metals Analysis - ICPMS										
Batch 2661558										
Boron		105		22.8	ug/L	8.7		(0%-20%)	BAJ	09/02/24 12:29
Cadmium	U	ND	U	ND	ug/L	N/A		(0%-20%)		09/01/24 19:57
Calcium		3360		664	ug/L	1.26		(0%-20%)		
Chromium		12.3	U	ND	ug/L	N/A		(0%-20%)		
Cobalt		1.50	J	0.317	ug/L	5.53		(0%-20%)		
Lead	J	0.838	U	ND	ug/L	N/A		(0%-20%)		
Lithium	U	ND	U	ND	ug/L	N/A		(0%-20%)		
Molybdenum	J	0.468	U	ND	ug/L	N/A		(0%-20%)		
Selenium		7.09	J	1.52	ug/L	7.27		(0%-20%)		
Thallium	U	ND	U	ND	ug/L	N/A		(0%-20%)		
Vanadium		125		25.3	ug/L	1.23		(0%-20%)		
Zinc	J	7.27	U	ND	ug/L	N/A		(0%-20%)		
Metals Analysis-Mercury										
Batch 2661034										
QC1205830709 682062001 DUP										
Mercury	U	ND	U	ND	mg/L	N/A			JP2	08/23/24 11:25

QC Summary

Workorder: **682062**

Parmname	NOM	Sample	Qual	QC	Units	RPD%	REC%	Range	Anlst	Date Time
Metals Analysis-Mercury										
Batch 2661034										
QC1205830708 LCS										
Mercury	0.00200			0.00201	mg/L		100	(80%-120%)	JP2	08/23/24 11:22
QC1205830707 MB										
Mercury			U	ND	mg/L					08/23/24 11:20
QC1205830710 682062001 MS										
Mercury	0.00200	U	ND	0.00128	mg/L		63.8*	(75%-125%)		08/23/24 11:27
QC1205830712 682062001 PS										
Mercury	2.00	U	ND	1.22	ug/L		61*	(80%-120%)		08/23/24 11:30
QC1205830711 682062001 SDILT										
Mercury		U	ND	U ND	ug/L	N/A		(0%-10%)		08/23/24 11:28

Notes:

The Qualifiers in this report are defined as follows:

- U Analyte was analyzed for, but not detected above the MDL, MDA, MDC or LOD.
- J Value is estimated
- X Consult Case Narrative, Data Summary package, or Project Manager concerning this qualifier
- N Metals--The Matrix spike sample recovery is not within specified control limits
- H Analytical holding time was exceeded
- < Result is less than value reported
- > Result is greater than value reported
- h Preparation or preservation holding time was exceeded
- R Sample results are rejected
- ^ RPD of sample and duplicate evaluated using +/-RL. Concentrations are <5X the RL. Qualifier Not Applicable for Radiochemistry.
- N/A RPD or %Recovery limits do not apply.
- ND Analyte concentration is not detected above the detection limit
- E %difference of sample and SD is >10%. Sample concentration must meet flagging criteria
- NJ Consult Case Narrative, Data Summary package, or Project Manager concerning this qualifier
- Q One or more quality control criteria have not been met. Refer to the applicable narrative or DER.
- FB Mercury was found present at quantifiable concentrations in field blanks received with these samples. Data associated with the blank are deemed invalid for reporting to regulatory agencies

QC Summary

Workorder: **682062**

Parmname	NOM	Sample	Qual	QC	Units	RPD%	REC%	Range	Anlst	Date	Time

N1 See case narrative

Y Other specific qualifiers were required to properly define the results. Consult case narrative.

J See case narrative for an explanation

N/A indicates that spike recovery limits do not apply when sample concentration exceeds spike conc. by a factor of 4 or more or %RPD not applicable.
^ The Relative Percent Difference (RPD) obtained from the sample duplicate (DUP) is evaluated against the acceptance criteria when the sample is greater than five times (5X) the contract required detection limit (RL). In cases where either the sample or duplicate value is less than 5X the RL, a control limit of +/- the RL is used to evaluate the DUP result.
* Indicates that a Quality Control parameter was not within specifications.
For PS, PSD, and SDILT results, the values listed are the measured amounts, not final concentrations.

Where the analytical method has been performed under NELAP certification, the analysis has met all of the requirements of the NELAC standard unless qualified on the QC Summary.

Metals
Technical Case Narrative
Georgia Power Company
SDG #: 682062

Product: **Determination of Metals by ICP-MS**
Analytical Method: SW846 3005A/6020B
Analytical Procedure: GL-MA-E-014 REV# 36
Analytical Batch: 2661558

Preparation Method: SW846 3005A
Preparation Procedure: GL-MA-E-006 REV# 15
Preparation Batch: 2661557

The following samples were analyzed using the above methods and analytical procedure(s).

GEL Sample ID#	Client Sample Identification
682062001	KRA-GWA-7
1205831917	Method Blank (MB)**ICP-MS**
1205831918	Laboratory Control Sample (LCS)
1205831921	682055001(KRA-GWA-7L) Serial Dilution (SD)
1205831919	682055001(KRA-GWA-7S) Matrix Spike (MS)
1205831920	682055001(KRA-GWA-7SD) Matrix Spike Duplicate (MSD)

The samples in this SDG were analyzed on an "as received" basis.

Data Summary:

All sample data provided in this report met the acceptance criteria specified in the analytical methods and procedures for initial calibration, continuing calibration, instrument controls and process controls where applicable, with the following exceptions.

Calibration Information

ICSA/ICSAB Statement
For the ICP-MS analysis, the ICSA solution contains analyte concentrations which are verified trace impurities indigenous to the purchased standard.

Technical Information

Sample Dilutions
Dilutions may be required for many reasons, including to minimize matrix interferences or to bring over range target analyte concentrations into the linear calibration range. Sample 682062001 (KRA-GWA-7) was diluted to ensure that the analyte concentration was within the linear calibration range of the instrument.

Analyte	**682062 001**
Boron	100X

Product: **Mercury Analysis Using the Perkin Elmer Automated Mercury Analyzer**

Analytical Method: SW846 7470A
Analytical Procedure: GL-MA-E-010 REV# 40
Analytical Batch: 2661034

Preparation Method: SW846 7470A Prep
Preparation Procedure: GL-MA-E-010 REV# 40
Preparation Batch: 2661033

The following samples were analyzed using the above methods and analytical procedure(s).

GEL Sample ID#	Client Sample Identification
682062001	KRA-GWA-7
1205830707	Method Blank (MB)**CVAA**
1205830708	Laboratory Control Sample (LCS)
1205830711	682062001(KRA-GWA-7L) Serial Dilution (SD)
1205830709	682062001(KRA-GWA-7D) Sample Duplicate (DUP)
1205830710	682062001(KRA-GWA-7S) Matrix Spike (MS)
1205830712	682062001(KRA-GWA-7PS) Post Spike (PS)

The samples in this SDG were analyzed on an "as received" basis.

Data Summary:

All sample data provided in this report met the acceptance criteria specified in the analytical methods and procedures for initial calibration, continuing calibration, instrument controls and process controls where applicable, with the following exceptions.

Quality Control (QC) Information

Matrix Spike (MS/MSD) Recovery Statement
The percent recoveries (%R) obtained from the MS/MSD analyses are evaluated when the sample concentration is less than four times (4X) the spike concentration added. The MS/MSD (See Below) did not meet the recommended quality control acceptance criteria for percent recoveries for the following applicable analyte. The post spike also did not meet the required control limits; thus, confirming matrix interferences and/or sample non-homogeneity.

Sample	Analyte	Value
1205830710 (KRA-GWA-7MS)	Mercury	63.8* (75%-125%)

Post Spike (PS) Recovery Statement
The percent recoveries (%R) obtained from the PS analyses are evaluated when the sample concentration is less than four times (4X) the spike concentration added. The PS did not meet the recommended quality control acceptance criteria for percent recoveries for all applicable analytes and verifies the presence of matrix interferences.

Sample	Analyte	Value
1205830712 (KRA-GWA-7PS)	Mercury	61* (80%-120%)

Certification Statement

Where the analytical method has been performed under NELAP certification, the analysis has met all of the requirements of the NELAC standard unless otherwise noted in the analytical case narrative.

Page: 1 of

Project #

GEL Quote #:

COC Number (1):

PO Number: GPC82177-0004

GEL Laboratories LLC

gel.com | Chemistry | Radiochemistry | Radiobioassay | Specialty Analytics

Chain of Custody and Analytical Request

GEL Work Order Number: *GEL Project Manager: Erin Trent*

GEL Laboratories, LLC
2040 Savage Road
Charleston, SC 29407
Phone: (843) 556-8171
Fax: (843) 766-1178

682062

Client Name: GA Power Phone # 404-506-7116

Project/Site Name: Plant Kraft - Grumman Road Landfill Fax #

Address: 241 Ralph McGill Blvd SE, Atlanta GA 30308

Collected By: T. Gable ACC Send Results To: SCS & ACC Contacts

Sample Analysis Requested (5) (Fill in the number of containers for each test)

Sample ID * For composites - indicate start and stop date/time	*Date Collected (mm-dd-yy)	*Time Collected (Military) (hhmm)	QC Code (2)	Field Filtered (3)	Sample Matrix (4)	Should this sample be considered: Radioactive (If yes, please supply isotopic info.)	Should this sample be considered: (7) Known or possible Hazards	Total number of containers	NI	Dissolved Metals * EPA 6020, 6010, 7470	<-- Preservative Type (6)	Comments
KRA- GWA-7	08-19-24	1635	G	Y	WG	N	N		✓			field-filtered

Comments
Note: extra sample is required for sample specific QC
Task_Code: KRA-CCR-ASSMT-2024S2

Chain of Custody Signatures

	Relinquished By (Signed)	Date	Time	Received by (signed)	Date	Time
1	Taylor Gable	8-21-24	0837	[illegible]	8.21.24	0837
2	Taylor	8.21.24	1600	Stacy Bowen	8/21/24	1100
3						

> *For sample shipping and delivery details, see Sample Receipt & Review form (SRR.)*

TAT Requested: Normal: x Rush: Specify: (Subject to Surcharge)

Fax Results: [ ] Yes [x] No

Select Deliverable: [ ] C of A [ ] QC Summary [ ] level 1 [x] Level 2 [ ] Level 3 [ ] Level 4

Additional Remarks: * **Metals: B,Ca,Sb,As,Ba,Be,Cd,Cr,Co,Pb,Li,Mo,Se,Tl,V,Zn,Hg**

For Lab Receiving Use Only: *Custody Seal Intact?* [ ] Yes [ ] No *Cooler Temp:* 1 °C

Sample Collection Time Zone: [x] Eastern [ ] Pacific [ ] Central [ ] Mountain [ ] Other:

1.) Chain of Custody Number = Client Determined

2.) QC Codes: **N** = Normal Sample, **TB** = Trip Blank, **FD** = Field Duplicate, **EB** = Equipment Blank, **MS** = Matrix Spike Sample, **MSD** = Matrix Spike Duplicate Sample, **G** = Grab, **C** = Composite

3.) Field Filtered: For liquid matrices, indicate with a - **Y** - for yes the sample was field filtered or - **N** - for sample was not field filtered.

4.) Matrix Codes: **WD**=Drinking Water, **WG**=Groundwater, **WS**=Surface Water, **WW**=Waste Water, **WL**=Leachate, **SO**=Soil, **SE**=Sediment, **SL**=Sludge, **WQ**=Water Quality Control Matrix

5.) Sample Analysis Requested: Analytical method requested (i.e. **8260B, 6010B/7470A**) and number of containers provided for each (i.e. *8260B* - **3**, *6010B/7470A* - **1**).

6.) Preservative Type: **HA** = Hydrochloric Acid, **NI** = Nitric Acid, **SH** = Sodium Hydroxide, **SA** = Sulfuric Acid, **AA** = Ascorbic Acid, **HX** = Hexane, **ST** = Sodium Thiosulfate, If no preservative is added = leave field blank

7.) KNOWN OR POSSIBLE HAZARDS

RCRA Metals
As = Arsenic **Hg**= Mercury
Ba = Barium **Se**= Selenium
Cd = Cadmium **Ag**= Silver
Cr = Chromium **MR**= Misc. RCRA metals
Pb = Lead

Characteristic Hazards
FL = Flammable/Ignitable
CO = Corrosive
RE = Reactive

TSCA Regulated
PCB = Polychlorinated biphenyls

Listed Waste
LW= Listed Waste
(F,K,P and U-listed wastes.)
Waste code(s):

Other
OT= Other / Unknown
(i.e.: High/low pH, asbestos, beryllium, irritants, other misc. health hazards, etc.)
Description:

Please provide any additional details below regarding handling and/or disposal concerns. (i.e.: Origin of sample(s), type of site collected from, odd matrices, etc.)

682062
682059

GEL Laboratories LLC

SAMPLE RECEIPT & REVIEW FORM

Client: GPCC	SDG/AR/COC/Work Order: A-P
Received By: Thyasia Tatum	Date Received: 8/21/24
Carrier and Tracking Number	Circle Applicable: FedEx Express FedEx Ground UPS Field Services Courier Other

Suspected Hazard Information	Yes	No	
			*If Net Counts > 100cpm on samples not marked "radioactive", contact the Radiation Safety Group for further investigation.
A)Shipped as a DOT Hazardous?		✓	Hazard Class Shipped: UN#: If UN2910, Is the Radioactive Shipment Survey Compliant? Yes___ No___
B) Did the client designate the samples are to be received as radioactive?		✓	COC notation or radioactive stickers on containers equal client designation.
C) Did the RSO classify the samples as radioactive?		✓	Maximum Net Counts Observed* (Observed Counts - Area Background Counts): 0 CPM / mR/Hr Classified as: Rad 1 Rad 2 Rad 3
D) Did the client designate samples are hazardous?		✓	COC notation or hazard labels on containers equal client designation.
E) Did the RSO identify possible hazards?		✓	If D or E is yes, select Hazards below. PCB's Flammable Foreign Soil RCRA Asbestos Beryllium Other:

	Sample Receipt Criteria	Yes	NA	No	Comments/Qualifiers (Required for Non-Conforming Items)
1	Shipping containers received intact and sealed?	✓			Circle Applicable: Seals broken Damaged container Leaking container Other (describe)
2	Chain of custody documents included with shipment?	✓			Circle Applicable: Client contacted and provided COC COC created upon receipt
3	Samples requiring cold preservation within (0 ≤ 6 deg. C)?*	✓			Preservation Method: (Wet Ice) Ice Packs Dry ice None Other: *all temperatures are recorded in Celsius TEMP: 2C
4	Daily check performed and passed on IR temperature gun?	✓			Temperature Device Serial #: IR2-23 Secondary Temperature Device Serial # (If Applicable):
5	Sample containers intact and sealed?	✓			Circle Applicable: Seals broken Damaged container Leaking container Other (describe)
6	Samples requiring chemical preservation at proper pH?	✓			Sample ID's and Containers Affected: If Preservation added, Lot#:
7	Do any samples require Volatile Analysis?			✓	If Yes, are Encores or Soil Kits present for solids? Yes___ No___ NA___(If yes, take to VOA Freezer) Do liquid VOA vials contain acid preservation? Yes___ No___ NA___(If unknown, select No) Are liquid VOA vials free of headspace? Yes___ No___ NA___ Sample ID's and containers affected:
8	Samples received within holding time?	✓		✓	ID's and tests affected:
9	Sample ID's on COC match ID's on bottles?	✓			ID's and containers affected:
10	Date & time on COC match date & time on bottles?	✓			Circle Applicable: No dates on containers No times on containers COC missing info Other (describe)
11	Number of containers received match number indicated on COC?			✓	Circle Applicable: No container count on COC Other (describe) ~~RECEIVED KBA-GWA-7 (METALS F/F) NOT ON COC~~ HB 8/22
12	Are sample containers identifiable as GEL provided by use of GEL labels?	✓			
13	COC form is properly signed in relinquished/received sections?	✓			Circle Applicable: Not relinquished Other (describe)

Comments (Use Continuation Form if needed):

PM (or PMA) review: Initials HB Date 8/22/24 Page 1 of 1

GL-CHL-SR-001 Rev 7

List of current GEL Certifications as of 05 September 2024

State	Certification
Alabama	42200
Alaska	17-018
Alaska Drinking Water	SC00012
Arkansas	88-00651
CLIA	42D0904046
California	2940
Colorado	SC00012
Connecticut	PH-0169
DoD ELAP/ ISO17025 A2LA	2567.01
Florida NELAP	E87156
Foreign Soils Permit	P330-15-00283, P330-15-00253
Georgia	SC00012
Georgia SDWA	967
Hawaii	SC00012
Idaho	SC00012
Illinois NELAP	200029
Indiana	C-SC-01
Kansas NELAP	E-10332
Kentucky SDWA	KY90129
Kentucky Wastewater	KY90129
Louisiana Drinking Water	LA024
Louisiana NELAP	03046 (AI33904)
Maine	2023019
Maryland	270
Massachusetts	M-SC012
Massachusetts PFAS Approv	Letter
Michigan	9976
Mississippi	SC00012
Nebraska	NE-OS-26-13
Nevada	NV-C24-00175
New Hampshire NELAP	205424
New Jersey NELAP	SC002
New Mexico	SC00012
New York NELAP	11501
North Carolina	233
North Carolina SDWA	45709
North Dakota	R-158
Oklahoma	2023-152
Pennsylvania NELAP	68-00485
Puerto Rico	SC00012
S. Carolina Radiochem	10120002
Sanitation Districts of L	9255651
South Carolina Chemistry	10120001
Tennessee	TN 02934
Texas NELAP	T104704235
Utah NELAP	SC000122024-41
Vermont	VT87156
Virginia NELAP	460202
Washington	C780

GEL Laboratories LLC
a member of The GEL Group INC

2040 Savage Road | Charleston, SC 29407
843.556.8171
gel.com

October 03, 2024

Kristen Jurinko
Georgia Power Company
241 Ralph McGill Blvd NE
Bin 10160
Atlanta, Georgia 30308

Re: Kraft - Grumman Road Landfill CCR Groundwater Compliance
Work Order: 682330

Dear Kristen Jurinko:

GEL Laboratories, LLC (GEL) appreciates the opportunity to provide the enclosed analytical results for the sample(s) we received on August 22, 2024. This revised data report has been prepared and reviewed in accordance with GEL's standard operating procedures. This report replaces the original version which is noted as SDG number 682330 in the left-hand footer of the data report. The revised package includes a Chain of Custody revision in which the metals list was revised for the last three samples in sequence per consultant request.

The samples were delivered with proper chain of custody documentation and signatures. All sample containers arrived without any visible signs of tampering or breakage. There are no additional comments concerning sample receipt. The laboratory received the following sample(s):

Laboratory ID	Client ID	Matrix	Date Collected	Date Received
682330001	KRA-GWC-9	Ground Water	08/21/24 09:30	08/22/24 13:54
682330002	KRA-GRL-EB-05	Water	08/21/24 10:15	08/22/24 13:54
682330003	KRA-GWC-22	Ground Water	08/21/24 11:29	08/22/24 13:54
682330004	KRA-GWA-8	Ground Water	08/21/24 16:39	08/22/24 13:54
682330005	KRA-GWB-5R	Ground Water	08/21/24 18:12	08/22/24 13:54
682330006	KRA-GWC-2	Ground Water	08/21/24 13:24	08/22/24 13:54
682330007	KRA-GWC-11	Ground Water	08/21/24 13:11	08/22/24 13:54
682330008	KRA-GWC-12	Ground Water	08/21/24 15:11	08/22/24 13:54
682330009	KRA-GWC-13	Ground Water	08/21/24 16:40	08/22/24 13:54
682330010	KRA-GWC-14	Ground Water	08/21/24 12:15	08/22/24 13:54
682330011	KRA-GWC-15	Ground Water	08/21/24 17:30	08/22/24 13:54
682330012	KRA-GWC-16	Ground Water	08/21/24 16:00	08/22/24 13:54
682330013	KRA-GWC-17	Ground Water	08/21/24 17:41	08/22/24 13:54
682330014	KRA-GWC-20	Ground Water	08/21/24 12:55	08/22/24 13:54
682330015	KRA-MW-23D	Ground Water	08/21/24 10:45	08/22/24 13:54

682330016	KRA-MW-24D	Ground Water	08/21/24 18:01	08/22/24 13:54
682330017	KRA-MW-25D	Ground Water	08/21/24 16:20	08/22/24 13:54
682330018	KRA-GRL-FD-03	Ground Water	08/21/24 12:00	08/22/24 13:54
682330019	KRA-GRL-FB-02	Water	08/21/24 10:35	08/22/24 13:54
682330020	KRA-GRL-FB-03	Water	08/21/24 18:40	08/22/24 13:54
682330021	KRA-GRL-EB-06	Water	08/21/24 18:30	08/22/24 13:54
682330022	KRA-GWC-21	Ground Water	08/22/24 10:31	08/22/24 13:54
682330023	KRA-GRL-FD-01	Ground Water	08/22/24 12:00	08/22/24 13:54

Test results for NELAP or ISO 17025 accredited tests are verified to meet the requirements of those standards, with any exceptions noted. The results reported relate only to the items tested and to the sample as received by the laboratory. These results may not be reproduced except as full reports without approval by the laboratory. Copies of GEL's accreditations and certifications can be found on our website at www.gel.com.

Prep Methods and Prep Dates

Method	Run Date ID
SW846 3005A	27-AUG-2024
SW846 7470A Prep	26-AUG-2024
SW846 7470A Prep	27-AUG-2024

Analysis Methods and Analysis Dates

Method	Run Date ID
EPA 300.0	24-AUG-2024
EPA 300.0	25-AUG-2024
EPA 300.0	26-AUG-2024
EPA 300.0	27-AUG-2024
SM 2540C	28-AUG-2024
SM 2540C	29-AUG-2024
SW846 3005A/6020B	03-SEP-2024
SW846 3005A/6020B	04-SEP-2024
SW846 7470A	27-AUG-2024
SW846 7470A	28-AUG-2024

Our policy is to provide high quality, personalized analytical services to enable you to meet your analytical needs on time every time. We trust that you will find everything in order and to your satisfaction. If you have any questions, please do not hesitate to call me at (843) 556-8171, ext. 4443.

Sincerely,

Alaina Pinnick

Alaina Pinnick
Project Manager

Purchase Order: GPC82177-0004
Enclosures

GEL LABORATORIES LLC
2040 Savage Road Charleston SC 29407 - (843) 556-8171 - www.gel.com

Certificate of Analysis Report
for

GPCC001 Georgia Power Company

Client SDG: 682330 GEL Work Order: 682330

The Qualifiers in this report are defined as follows:

* A quality control analyte recovery is outside of specified acceptance criteria

** Analyte is a Tracer compound

** Analyte is a surrogate compound

B Either presence of analyte detected in the associated blank, or MDL/IDL < sample value < PQL

J Value is estimated

N/A RPD or %Recovery limits do not apply.

U Analyte was analyzed for, but not detected above the MDL, MDA, MDC or LOD.

Where the analytical method has been performed under NELAP certification, the analysis has met all of the requirements of the NELAC standard unless qualified on the Certificate of Analysis.

The designation ND, if present, appears in the result column when the analyte concentration is not detected above the limit as defined in the 'U' qualifier above.

This data report has been prepared and reviewed in accordance with GEL Laboratories LLC standard operating procedures. Please direct any questions to your Project Manager, Alaina Pinnick.

Reviewed by Alaina Pinnick

GEL LABORATORIES LLC
2040 Savage Road Charleston SC 29407 - (843) 556-8171 - www.gel.com

Certificate of Analysis

Report Date: October 3, 2024

Company :	Georgia Power Company
Address :	241 Ralph McGill Blvd NE Bin 10160 Atlanta, Georgia 30308
Contact:	Kristen Jurinko
Project:	Kraft - Grumman Road Landfill CCR Groundwater Compliance

Client Sample ID:	KRA-GWC-9	Project:	GPCC00102
Sample ID:	682330001	Client ID:	GPCC001
Matrix:	WG		
Collect Date:	21-AUG-24 09:30		
Receive Date:	22-AUG-24		
Collector:	Client		

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Ion Chromatography												
EPA 300.0 Anions Liquid "As Received"												
Fluoride		0.134	0.0330	0.100	mg/L		1	CWW	08/24/24	2140	2662326	1
Chloride		24.0	0.335	1.00	mg/L		5	CWW	08/26/24	1222	2662326	2
Sulfate		24.1	0.665	2.00	mg/L		5					
Mercury Analysis-CVAA												
7470 Cold Vapor Mercury, Liquid "As Received"												
Mercury	U	ND	0.0000670	0.000200	mg/L	1.00	1	JP2	08/27/24	1158	2662060	3
Metals Analysis-ICP-MS												
SW846 3005A/6020B "As Received"												
Antimony	U	ND	0.00100	0.00300	mg/L	1.00	1	BAJ	09/03/24	1804	2661583	4
Arsenic	U	ND	0.00200	0.00500	mg/L	1.00	1					
Barium		0.149	0.000670	0.00400	mg/L	1.00	1					
Beryllium	J	0.000210	0.000200	0.000500	mg/L	1.00	1					
Cadmium	U	ND	0.000300	0.00100	mg/L	1.00	1					
Calcium		4.68	0.0800	0.200	mg/L	1.00	1					
Chromium	U	ND	0.00300	0.0100	mg/L	1.00	1					
Cobalt	J	0.000960	0.000300	0.00100	mg/L	1.00	1					
Lead	U	ND	0.000500	0.00200	mg/L	1.00	1					
Lithium	U	ND	0.00300	0.0100	mg/L	1.00	1					
Molybdenum	U	ND	0.000200	0.00100	mg/L	1.00	1					
Selenium	U	ND	0.00150	0.00500	mg/L	1.00	1					
Thallium	U	ND	0.000600	0.00200	mg/L	1.00	1					
Vanadium	U	ND	0.00330	0.0200	mg/L	1.00	1					
Zinc	J	0.0137	0.00330	0.0200	mg/L	1.00	1					
Boron		0.0193	0.00520	0.0150	mg/L	1.00	1	BAJ	09/04/24	1350	2661583	5
Solids Analysis												
SM2540C Dissolved Solids "As Received"												
Total Dissolved Solids		90.0	2.38	10.0	mg/L			KLP1	08/28/24	1338	2663921	6

The following Prep Methods were performed:

Method	Description	Analyst	Date	Time	Prep Batch
SW846 7470A Prep	EPA 7470A Mercury Prep Liquid	JM13	08/26/24	1100	2662059
SW846 3005A	ICP-MS 3005A PREP	AB5	08/27/24	0805	2661582

GEL LABORATORIES LLC
2040 Savage Road Charleston SC 29407 - (843) 556-8171 - www.gel.com

Certificate of Analysis

Report Date: October 3, 2024

Company :	Georgia Power Company
Address :	241 Ralph McGill Blvd NE Bin 10160 Atlanta, Georgia 30308
Contact:	Kristen Jurinko
Project:	Kraft - Grumman Road Landfill CCR Groundwater Compliance

Client Sample ID:	KRA-GWC-9	Project:	GPCC00102
Sample ID:	682330001	Client ID:	GPCC001

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method

The following Analytical Methods were performed:

Method	Description	Analyst Comments
1	EPA 300.0	
2	EPA 300.0	
3	SW846 7470A	
4	SW846 3005A/6020B	
5	SW846 3005A/6020B	
6	SM 2540C	

Notes:

Column headers are defined as follows:

DF: Dilution Factor	Lc/LC: Critical Level
DL: Detection Limit	PF: Prep Factor
MDA: Minimum Detectable Activity	RL: Reporting Limit
MDC: Minimum Detectable Concentration	SQL: Sample Quantitation Limit

GEL LABORATORIES LLC
2040 Savage Road Charleston SC 29407 - (843) 556-8171 - www.gel.com

Certificate of Analysis

Report Date: October 3, 2024

Company :	Georgia Power Company
Address :	241 Ralph McGill Blvd NE Bin 10160 Atlanta, Georgia 30308
Contact:	Kristen Jurinko
Project:	Kraft - Grumman Road Landfill CCR Groundwater Compliance

Client Sample ID:	KRA-GRL-EB-05	Project:	GPCC00102
Sample ID:	682330002	Client ID:	GPCC001
Matrix:	WQ		
Collect Date:	21-AUG-24 10:15		
Receive Date:	22-AUG-24		
Collector:	Client		

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Ion Chromatography												
EPA 300.0 Anions Liquid "As Received"												
Chloride	U	ND	0.0670	0.200	mg/L		1	CWW	08/25/24	0019	2662326	1
Fluoride	U	ND	0.0330	0.100	mg/L		1					
Sulfate	U	ND	0.133	0.400	mg/L		1					
Mercury Analysis-CVAA												
7470 Cold Vapor Mercury, Liquid "As Received"												
Mercury	U	ND	0.0000670	0.000200	mg/L	1.00	1	JP2	08/27/24	1200	2662060	2
Metals Analysis-ICP-MS												
SW846 3005A/6020B "As Received"												
Boron	U	ND	0.00520	0.0150	mg/L	1.00	1	BAJ	09/04/24	1349	2661583	3
Antimony	U	ND	0.00100	0.00300	mg/L	1.00	1	BAJ	09/03/24	1755	2661583	4
Arsenic	U	ND	0.00200	0.00500	mg/L	1.00	1					
Barium	U	ND	0.000670	0.00400	mg/L	1.00	1					
Beryllium	U	ND	0.000200	0.000500	mg/L	1.00	1					
Cadmium	U	ND	0.000300	0.00100	mg/L	1.00	1					
Calcium	U	ND	0.0800	0.200	mg/L	1.00	1					
Chromium	U	ND	0.00300	0.0100	mg/L	1.00	1					
Cobalt	U	ND	0.000300	0.00100	mg/L	1.00	1					
Lead	U	ND	0.000500	0.00200	mg/L	1.00	1					
Lithium	U	ND	0.00300	0.0100	mg/L	1.00	1					
Molybdenum	U	ND	0.000200	0.00100	mg/L	1.00	1					
Selenium	U	ND	0.00150	0.00500	mg/L	1.00	1					
Thallium	U	ND	0.000600	0.00200	mg/L	1.00	1					
Vanadium	U	ND	0.00330	0.0200	mg/L	1.00	1					
Zinc	U	ND	0.00330	0.0200	mg/L	1.00	1					
Solids Analysis												
SM2540C Dissolved Solids "As Received"												
Total Dissolved Solids	U	ND	2.38	10.0	mg/L			KLP1	08/28/24	1338	2663921	5

The following Prep Methods were performed:

Method	Description	Analyst	Date	Time	Prep Batch
SW846 3005A	ICP-MS 3005A PREP	AB5	08/27/24	0805	2661582
SW846 7470A Prep	EPA 7470A Mercury Prep Liquid	JM13	08/26/24	1100	2662059

GEL LABORATORIES LLC
2040 Savage Road Charleston SC 29407 - (843) 556-8171 - www.gel.com

Certificate of Analysis

Report Date: October 3, 2024

Company :	Georgia Power Company
Address :	241 Ralph McGill Blvd NE Bin 10160 Atlanta, Georgia 30308
Contact:	Kristen Jurinko
Project:	Kraft - Grumman Road Landfill CCR Groundwater Compliance

Client Sample ID:	KRA-GRL-EB-05	Project:	GPCC00102
Sample ID:	682330002	Client ID:	GPCC001

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method

The following Analytical Methods were performed:

Method	Description	Analyst Comments
1	EPA 300.0	
2	SW846 7470A	
3	SW846 3005A/6020B	
4	SW846 3005A/6020B	
5	SM 2540C	

Notes:

Column headers are defined as follows:

DF: Dilution Factor	Lc/LC: Critical Level
DL: Detection Limit	PF: Prep Factor
MDA: Minimum Detectable Activity	RL: Reporting Limit
MDC: Minimum Detectable Concentration	SQL: Sample Quantitation Limit

GEL LABORATORIES LLC
2040 Savage Road Charleston SC 29407 - (843) 556-8171 - www.gel.com

Certificate of Analysis

Report Date: October 3, 2024

Company :	Georgia Power Company
Address :	241 Ralph McGill Blvd NE Bin 10160 Atlanta, Georgia 30308
Contact:	Kristen Jurinko
Project:	Kraft - Grumman Road Landfill CCR Groundwater Compliance

Client Sample ID:	KRA-GWC-22	Project:	GPCC00102
Sample ID:	682330003	Client ID:	GPCC001
Matrix:	WG		
Collect Date:	21-AUG-24 11:29		
Receive Date:	22-AUG-24		
Collector:	Client		

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Ion Chromatography												
EPA 300.0 Anions Liquid "As Received"												
Chloride		10.5	0.335	1.00	mg/L		5	CWW	08/26/24	1357	2662326	1
Sulfate		41.8	0.665	2.00	mg/L		5					
Fluoride	U	ND	0.0330	0.100	mg/L		1	CWW	08/25/24	0051	2662326	2
Mercury Analysis-CVAA												
7470 Cold Vapor Mercury, Liquid "As Received"												
Mercury	U	ND	0.0000670	0.000200	mg/L	1.00	1	JP2	08/27/24	1201	2662060	3
Metals Analysis-ICP-MS												
SW846 3005A/6020B "As Received"												
Antimony	U	ND	0.00100	0.00300	mg/L	1.00	1	BAJ	09/03/24	1837	2661583	4
Arsenic	U	ND	0.00200	0.00500	mg/L	1.00	1					
Barium		0.0362	0.000670	0.00400	mg/L	1.00	1					
Beryllium	U	ND	0.000200	0.000500	mg/L	1.00	1					
Cadmium	U	ND	0.000300	0.00100	mg/L	1.00	1					
Calcium		13.3	0.0800	0.200	mg/L	1.00	1					
Chromium	U	ND	0.00300	0.0100	mg/L	1.00	1					
Cobalt	U	ND	0.000300	0.00100	mg/L	1.00	1					
Lead	U	ND	0.000500	0.00200	mg/L	1.00	1					
Lithium	U	ND	0.00300	0.0100	mg/L	1.00	1					
Molybdenum	U	ND	0.000200	0.00100	mg/L	1.00	1					
Selenium	U	ND	0.00150	0.00500	mg/L	1.00	1					
Thallium	U	ND	0.000600	0.00200	mg/L	1.00	1					
Vanadium	U	ND	0.00330	0.0200	mg/L	1.00	1					
Zinc	J	0.0141	0.00330	0.0200	mg/L	1.00	1					
Boron		0.179	0.00520	0.0150	mg/L	1.00	1	BAJ	09/04/24	1403	2661583	5
Solids Analysis												
SM2540C Dissolved Solids "As Received"												
Total Dissolved Solids		81.0	2.38	10.0	mg/L			KLP1	08/28/24	1338	2663921	6

The following Prep Methods were performed:

Method	Description	Analyst	Date	Time	Prep Batch
SW846 3005A	ICP-MS 3005A PREP	AB5	08/27/24	0805	2661582
SW846 7470A Prep	EPA 7470A Mercury Prep Liquid	JM13	08/26/24	1100	2662059

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Certificate of Analysis

Report Date: October 3, 2024

Company :	Georgia Power Company
Address :	241 Ralph McGill Blvd NE Bin 10160 Atlanta, Georgia 30308
Contact:	Kristen Jurinko
Project:	Kraft - Grumman Road Landfill CCR Groundwater Compliance

Client Sample ID:	KRA-GWC-22	Project:	GPCC00102
Sample ID:	682330003	Client ID:	GPCC001

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method

The following Analytical Methods were performed:

Method	Description	Analyst Comments
1	EPA 300.0	
2	EPA 300.0	
3	SW846 7470A	
4	SW846 3005A/6020B	
5	SW846 3005A/6020B	
6	SM 2540C	

Notes:

Column headers are defined as follows:

DF: Dilution Factor
DL: Detection Limit
MDA: Minimum Detectable Activity
MDC: Minimum Detectable Concentration
Lc/LC: Critical Level
PF: Prep Factor
RL: Reporting Limit
SQL: Sample Quantitation Limit

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Certificate of Analysis

Report Date: October 3, 2024

Company :	Georgia Power Company
Address :	241 Ralph McGill Blvd NE Bin 10160 Atlanta, Georgia 30308
Contact:	Kristen Jurinko
Project:	Kraft - Grumman Road Landfill CCR Groundwater Compliance

Client Sample ID:	KRA-GWA-8	Project:	GPCC00102
Sample ID:	682330004	Client ID:	GPCC001
Matrix:	WG		
Collect Date:	21-AUG-24 16:39		
Receive Date:	22-AUG-24		
Collector:	Client		

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Ion Chromatography												
EPA 300.0 Anions Liquid "As Received"												
Chloride		18.2	0.670	2.00	mg/L		10	CWW	08/26/24	1429	2662326	1
Sulfate		107	1.33	4.00	mg/L		10					
Fluoride		0.108	0.0330	0.100	mg/L		1	CWW	08/25/24	0123	2662326	2
Mercury Analysis-CVAA												
7470 Cold Vapor Mercury, Liquid "As Received"												
Mercury	U	ND	0.0000670	0.000200	mg/L	1.00	1	JP2	08/27/24	1203	2662060	3
Metals Analysis-ICP-MS												
SW846 3005A/6020B "As Received"												
Antimony	U	ND	0.00100	0.00300	mg/L	1.00	1	BAJ	09/03/24	1843	2661583	4
Arsenic	U	ND	0.00200	0.00500	mg/L	1.00	1					
Barium		0.0576	0.000670	0.00400	mg/L	1.00	1					
Beryllium	U	ND	0.000200	0.000500	mg/L	1.00	1					
Cadmium	U	ND	0.000300	0.00100	mg/L	1.00	1					
Calcium		18.6	0.0800	0.200	mg/L	1.00	1					
Chromium	U	ND	0.00300	0.0100	mg/L	1.00	1					
Cobalt	J	0.000413	0.000300	0.00100	mg/L	1.00	1					
Lead	U	ND	0.000500	0.00200	mg/L	1.00	1					
Lithium	U	ND	0.00300	0.0100	mg/L	1.00	1					
Molybdenum	U	ND	0.000200	0.00100	mg/L	1.00	1					
Selenium	U	ND	0.00150	0.00500	mg/L	1.00	1					
Thallium	U	ND	0.000600	0.00200	mg/L	1.00	1					
Vanadium	U	ND	0.00330	0.0200	mg/L	1.00	1					
Zinc	J	0.0123	0.00330	0.0200	mg/L	1.00	1					
Boron		0.230	0.0260	0.0750	mg/L	1.00	5	BAJ	09/04/24	1406	2661583	5
Solids Analysis												
SM2540C Dissolved Solids "As Received"												
Total Dissolved Solids		165	2.38	10.0	mg/L			KLP1	08/28/24	1338	2663921	6

The following Prep Methods were performed:

Method	Description	Analyst	Date	Time	Prep Batch
SW846 3005A	ICP-MS 3005A PREP	AB5	08/27/24	0805	2661582
SW846 7470A Prep	EPA 7470A Mercury Prep Liquid	JM13	08/26/24	1100	2662059

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Certificate of Analysis

Report Date: October 3, 2024

Company :	Georgia Power Company
Address :	241 Ralph McGill Blvd NE Bin 10160 Atlanta, Georgia 30308
Contact:	Kristen Jurinko
Project:	Kraft - Grumman Road Landfill CCR Groundwater Compliance

Client Sample ID:	KRA-GWA-8	Project:	GPCC00102
Sample ID:	682330004	Client ID:	GPCC001

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method

The following Analytical Methods were performed:

Method	Description	Analyst Comments
1	EPA 300.0	
2	EPA 300.0	
3	SW846 7470A	
4	SW846 3005A/6020B	
5	SW846 3005A/6020B	
6	SM 2540C	

Notes:

Column headers are defined as follows:

DF: Dilution Factor	Lc/LC: Critical Level
DL: Detection Limit	PF: Prep Factor
MDA: Minimum Detectable Activity	RL: Reporting Limit
MDC: Minimum Detectable Concentration	SQL: Sample Quantitation Limit

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Certificate of Analysis

Report Date: October 3, 2024

Company :	Georgia Power Company
Address :	241 Ralph McGill Blvd NE Bin 10160 Atlanta, Georgia 30308
Contact:	Kristen Jurinko
Project:	Kraft - Grumman Road Landfill CCR Groundwater Compliance

Client Sample ID:	KRA-GWB-5R	Project:	GPCC00102
Sample ID:	682330005	Client ID:	GPCC001
Matrix:	WG		
Collect Date:	21-AUG-24 18:12		
Receive Date:	22-AUG-24		
Collector:	Client		

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Ion Chromatography												
EPA 300.0 Anions Liquid "As Received"												
Chloride		138	1.68	5.00	mg/L		25	CWW	08/26/24	1500	2662326	1
Sulfate		289	3.33	10.0	mg/L		25					
Fluoride	J	0.0435	0.0330	0.100	mg/L		1	CWW	08/25/24	0154	2662326	2
Mercury Analysis-CVAA												
7470 Cold Vapor Mercury, Liquid "As Received"												
Mercury	U	ND	0.0000670	0.000200	mg/L	1.00	1	JP2	08/27/24	1205	2662060	3
Metals Analysis-ICP-MS												
SW846 3005A/6020B "As Received"												
Boron		5.38	0.260	0.750	mg/L	1.00	50	BAJ	09/04/24	1438	2661583	4
Antimony	U	ND	0.00100	0.00300	mg/L	1.00	1	BAJ	09/03/24	1849	2661583	5
Arsenic	J	0.00237	0.00200	0.00500	mg/L	1.00	1					
Barium		0.0921	0.000670	0.00400	mg/L	1.00	1					
Beryllium	U	ND	0.000200	0.000500	mg/L	1.00	1					
Cadmium	U	ND	0.000300	0.00100	mg/L	1.00	1					
Calcium		30.0	0.0800	0.200	mg/L	1.00	1					
Chromium	J	0.00542	0.00300	0.0100	mg/L	1.00	1					
Cobalt		0.00156	0.000300	0.00100	mg/L	1.00	1					
Lead	J	0.000522	0.000500	0.00200	mg/L	1.00	1					
Lithium	U	ND	0.00300	0.0100	mg/L	1.00	1					
Molybdenum	J	0.000577	0.000200	0.00100	mg/L	1.00	1					
Selenium	J	0.00214	0.00150	0.00500	mg/L	1.00	1					
Thallium	U	ND	0.000600	0.00200	mg/L	1.00	1					
Vanadium		0.0209	0.00330	0.0200	mg/L	1.00	1					
Zinc	U	ND	0.00330	0.0200	mg/L	1.00	1					
Solids Analysis												
SM2540C Dissolved Solids "As Received"												
Total Dissolved Solids		1160	23.8	100	mg/L			KLP1	08/28/24	1338	2663921	6

The following Prep Methods were performed:

Method	Description	Analyst	Date	Time	Prep Batch
SW846 3005A	ICP-MS 3005A PREP	AB5	08/27/24	0805	2661582
SW846 7470A Prep	EPA 7470A Mercury Prep Liquid	JM13	08/26/24	1100	2662059

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Certificate of Analysis

Report Date: October 3, 2024

Company :	Georgia Power Company
Address :	241 Ralph McGill Blvd NE Bin 10160 Atlanta, Georgia 30308
Contact:	Kristen Jurinko
Project:	Kraft - Grumman Road Landfill CCR Groundwater Compliance

Client Sample ID:	KRA-GWB-5R	Project:	GPCC00102
Sample ID:	682330005	Client ID:	GPCC001

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method

The following Analytical Methods were performed:

Method	Description	Analyst Comments
1	EPA 300.0	
2	EPA 300.0	
3	SW846 7470A	
4	SW846 3005A/6020B	
5	SW846 3005A/6020B	
6	SM 2540C	

Notes:

Column headers are defined as follows:

DF: Dilution Factor
DL: Detection Limit
MDA: Minimum Detectable Activity
MDC: Minimum Detectable Concentration
Lc/LC: Critical Level
PF: Prep Factor
RL: Reporting Limit
SQL: Sample Quantitation Limit

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Certificate of Analysis

Report Date: October 3, 2024

Company : Georgia Power Company
Address : 241 Ralph McGill Blvd NE
Bin 10160
Atlanta, Georgia 30308
Contact: Kristen Jurinko
Project: Kraft - Grumman Road Landfill CCR Groundwater Compliance

Client Sample ID: KRA-GWC-2
Sample ID: 682330006
Matrix: WG
Collect Date: 21-AUG-24 13:24
Receive Date: 22-AUG-24
Collector: Client

Project: GPCC00102
Client ID: GPCC001

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Ion Chromatography												
EPA 300.0 Anions Liquid "As Received"												
Chloride		5.61	0.0670	0.200	mg/L		1	CWW	08/25/24	0258	2662326	1
Fluoride	J	0.0532	0.0330	0.100	mg/L		1					
Sulfate		11.6	0.133	0.400	mg/L		1					
Mercury Analysis-CVAA												
7470 Cold Vapor Mercury, Liquid "As Received"												
Mercury	U	ND	0.0000670	0.000200	mg/L	1.00	1	JP2	08/27/24	1206	2662060	2
Metals Analysis-ICP-MS												
SW846 3005A/6020B "As Received"												
Antimony	U	ND	0.00100	0.00300	mg/L	1.00	1	BAJ	09/03/24	1854	2661583	3
Arsenic	U	ND	0.00200	0.00500	mg/L	1.00	1					
Barium		0.0506	0.000670	0.00400	mg/L	1.00	1					
Beryllium	U	ND	0.000200	0.000500	mg/L	1.00	1					
Cadmium	U	ND	0.000300	0.00100	mg/L	1.00	1					
Calcium	J	0.156	0.0800	0.200	mg/L	1.00	1					
Chromium	U	ND	0.00300	0.0100	mg/L	1.00	1					
Cobalt	U	ND	0.000300	0.00100	mg/L	1.00	1					
Lead	U	ND	0.000500	0.00200	mg/L	1.00	1					
Lithium	U	ND	0.00300	0.0100	mg/L	1.00	1					
Molybdenum	U	ND	0.000200	0.00100	mg/L	1.00	1					
Selenium	U	ND	0.00150	0.00500	mg/L	1.00	1					
Thallium	U	ND	0.000600	0.00200	mg/L	1.00	1					
Vanadium	U	ND	0.00330	0.0200	mg/L	1.00	1					
Zinc	U	ND	0.00330	0.0200	mg/L	1.00	1					
Boron		0.0230	0.00520	0.0150	mg/L	1.00	1	BAJ	09/04/24	1404	2661583	4
Solids Analysis												
SM2540C Dissolved Solids "As Received"												
Total Dissolved Solids		25.0	2.38	10.0	mg/L			KLP1	08/28/24	1338	2663921	5

The following Prep Methods were performed:

Method	Description	Analyst	Date	Time	Prep Batch
SW846 7470A Prep	EPA 7470A Mercury Prep Liquid	JM13	08/26/24	1100	2662059
SW846 3005A	ICP-MS 3005A PREP	AB5	08/27/24	0805	2661582

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Certificate of Analysis

Report Date: October 3, 2024

Company :	Georgia Power Company
Address :	241 Ralph McGill Blvd NE Bin 10160 Atlanta, Georgia 30308
Contact:	Kristen Jurinko
Project:	Kraft - Grumman Road Landfill CCR Groundwater Compliance

Client Sample ID:	KRA-GWC-2	Project:	GPCC00102
Sample ID:	682330006	Client ID:	GPCC001

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method

The following Analytical Methods were performed:

Method	Description	Analyst Comments
1	EPA 300.0	
2	SW846 7470A	
3	SW846 3005A/6020B	
4	SW846 3005A/6020B	
5	SM 2540C	

Notes:

Column headers are defined as follows:

DF: Dilution Factor	Lc/LC: Critical Level
DL: Detection Limit	PF: Prep Factor
MDA: Minimum Detectable Activity	RL: Reporting Limit
MDC: Minimum Detectable Concentration	SQL: Sample Quantitation Limit

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Certificate of Analysis

Report Date: October 3, 2024

Company : Georgia Power Company
Address : 241 Ralph McGill Blvd NE
Bin 10160
Atlanta, Georgia 30308
Contact: Kristen Jurinko
Project: Kraft - Grumman Road Landfill CCR Groundwater Compliance

Client Sample ID: KRA-GWC-11
Sample ID: 682330007
Matrix: WG
Collect Date: 21-AUG-24 13:11
Receive Date: 22-AUG-24
Collector: Client

Project: GPCC00102
Client ID: GPCC001

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Ion Chromatography												
EPA 300.0 Anions Liquid "As Received"												
Chloride		48.9	3.35	10.0	mg/L		50	CWW	08/26/24	1532	2662326	1
Sulfate		404	6.65	20.0	mg/L		50					
Fluoride	U	ND	0.0330	0.100	mg/L		1	CWW	08/25/24	0330	2662326	2
Mercury Analysis-CVAA												
7470 Cold Vapor Mercury, Liquid "As Received"												
Mercury	U	ND	0.0000670	0.000200	mg/L	1.00	1	JP2	08/28/24	0949	2662837	3
Metals Analysis-ICP-MS												
SW846 3005A/6020B "As Received"												
Calcium		102	0.400	1.00	mg/L	1.00	5	BAJ	09/03/24	1908	2661583	4
Boron		0.668	0.0260	0.0750	mg/L	1.00	5	BAJ	09/04/24	1407	2661583	5
Antimony	U	ND	0.00100	0.00300	mg/L	1.00	1	BAJ	09/03/24	1906	2661583	6
Arsenic	U	ND	0.00200	0.00500	mg/L	1.00	1					
Barium		0.126	0.000670	0.00400	mg/L	1.00	1					
Beryllium	U	ND	0.000200	0.000500	mg/L	1.00	1					
Cadmium	U	ND	0.000300	0.00100	mg/L	1.00	1					
Chromium	U	ND	0.00300	0.0100	mg/L	1.00	1					
Cobalt	U	ND	0.000300	0.00100	mg/L	1.00	1					
Lead	U	ND	0.000500	0.00200	mg/L	1.00	1					
Lithium	U	ND	0.00300	0.0100	mg/L	1.00	1					
Molybdenum	J	0.000489	0.000200	0.00100	mg/L	1.00	1					
Selenium		0.00627	0.00150	0.00500	mg/L	1.00	1					
Thallium	U	ND	0.000600	0.00200	mg/L	1.00	1					
Vanadium	J	0.00332	0.00330	0.0200	mg/L	1.00	1					
Zinc		0.0392	0.00330	0.0200	mg/L	1.00	1					
Solids Analysis												
SM2540C Dissolved Solids "As Received"												
Total Dissolved Solids		510	23.8	100	mg/L			KLP1	08/28/24	1338	2663921	7

The following Prep Methods were performed:

Method	Description	Analyst	Date	Time	Prep Batch
SW846 3005A	ICP-MS 3005A PREP	AB5	08/27/24	0805	2661582
SW846 7470A Prep	EPA 7470A Mercury Prep Liquid	JM13	08/27/24	1105	2662836

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Certificate of Analysis

Report Date: October 3, 2024

Company :	Georgia Power Company
Address :	241 Ralph McGill Blvd NE Bin 10160 Atlanta, Georgia 30308
Contact:	Kristen Jurinko
Project:	Kraft - Grumman Road Landfill CCR Groundwater Compliance

Client Sample ID:	KRA-GWC-11	Project:	GPCC00102
Sample ID:	682330007	Client ID:	GPCC001

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method

The following Analytical Methods were performed:

Method	Description	Analyst Comments
1	EPA 300.0	
2	EPA 300.0	
3	SW846 7470A	
4	SW846 3005A/6020B	
5	SW846 3005A/6020B	
6	SW846 3005A/6020B	
7	SM 2540C	

Notes:

Column headers are defined as follows:

DF: Dilution Factor	Lc/LC: Critical Level
DL: Detection Limit	PF: Prep Factor
MDA: Minimum Detectable Activity	RL: Reporting Limit
MDC: Minimum Detectable Concentration	SQL: Sample Quantitation Limit

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Certificate of Analysis

Report Date: October 3, 2024

Company : Georgia Power Company
Address : 241 Ralph McGill Blvd NE
Bin 10160
Atlanta, Georgia 30308
Contact: Kristen Jurinko
Project: Kraft - Grumman Road Landfill CCR Groundwater Compliance

Client Sample ID: KRA-GWC-12
Sample ID: 682330008
Matrix: WG
Collect Date: 21-AUG-24 15:11
Receive Date: 22-AUG-24
Collector: Client

Project: GPCC00102
Client ID: GPCC001

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Ion Chromatography												
EPA 300.0 Anions Liquid "As Received"												
Fluoride		0.194	0.0330	0.100	mg/L		1	CWW	08/25/24	0402	2662326	1
Chloride		117	3.35	10.0	mg/L		50	CWW	08/26/24	1604	2662326	2
Sulfate		602	6.65	20.0	mg/L		50					
Mercury Analysis-CVAA												
7470 Cold Vapor Mercury, Liquid "As Received"												
Mercury	U	ND	0.0000670	0.000200	mg/L	1.00	1	JP2	08/28/24	0951	2662837	3
Metals Analysis-ICP-MS												
SW846 3005A/6020B "As Received"												
Antimony	U	ND	0.00100	0.00300	mg/L	1.00	1	BAJ	09/03/24	1911	2661583	4
Arsenic	U	ND	0.00200	0.00500	mg/L	1.00	1					
Barium		0.0236	0.000670	0.00400	mg/L	1.00	1					
Beryllium		0.000587	0.000200	0.000500	mg/L	1.00	1					
Cadmium	U	ND	0.000300	0.00100	mg/L	1.00	1					
Chromium	U	ND	0.00300	0.0100	mg/L	1.00	1					
Cobalt	J	0.000768	0.000300	0.00100	mg/L	1.00	1					
Lead	U	ND	0.000500	0.00200	mg/L	1.00	1					
Lithium	U	ND	0.00300	0.0100	mg/L	1.00	1					
Molybdenum	U	ND	0.000200	0.00100	mg/L	1.00	1					
Selenium	U	ND	0.00150	0.00500	mg/L	1.00	1					
Thallium	U	ND	0.000600	0.00200	mg/L	1.00	1					
Vanadium	J	0.00869	0.00330	0.0200	mg/L	1.00	1					
Zinc	J	0.00744	0.00330	0.0200	mg/L	1.00	1					
Calcium		79.6	0.400	1.00	mg/L	1.00	5	BAJ	09/03/24	1914	2661583	5
Boron		9.95	0.520	1.50	mg/L	1.00	100	BAJ	09/04/24	1440	2661583	6
Solids Analysis												
SM2540C Dissolved Solids "As Received"												
Total Dissolved Solids		817	2.38	10.0	mg/L			KLP1	08/28/24	1338	2663921	7

The following Prep Methods were performed:

Method	Description	Analyst	Date	Time	Prep Batch
SW846 3005A	ICP-MS 3005A PREP	AB5	08/27/24	0805	2661582
SW846 7470A Prep	EPA 7470A Mercury Prep Liquid	JM13	08/27/24	1105	2662836

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Certificate of Analysis

Report Date: October 3, 2024

Company :	Georgia Power Company
Address :	241 Ralph McGill Blvd NE Bin 10160 Atlanta, Georgia 30308
Contact:	Kristen Jurinko
Project:	Kraft - Grumman Road Landfill CCR Groundwater Compliance

Client Sample ID:	KRA-GWC-12	Project:	GPCC00102
Sample ID:	682330008	Client ID:	GPCC001

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method

The following Analytical Methods were performed:

Method	Description	Analyst Comments
1	EPA 300.0	
2	EPA 300.0	
3	SW846 7470A	
4	SW846 3005A/6020B	
5	SW846 3005A/6020B	
6	SW846 3005A/6020B	
7	SM 2540C	

Notes:

Column headers are defined as follows:

DF: Dilution Factor	Lc/LC: Critical Level
DL: Detection Limit	PF: Prep Factor
MDA: Minimum Detectable Activity	RL: Reporting Limit
MDC: Minimum Detectable Concentration	SQL: Sample Quantitation Limit

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Certificate of Analysis

Report Date: October 3, 2024

Company :	Georgia Power Company
Address :	241 Ralph McGill Blvd NE Bin 10160 Atlanta, Georgia 30308
Contact:	Kristen Jurinko
Project:	Kraft - Grumman Road Landfill CCR Groundwater Compliance

Client Sample ID:	KRA-GWC-13	Project:	GPCC00102
Sample ID:	682330009	Client ID:	GPCC001
Matrix:	WG		
Collect Date:	21-AUG-24 16:40		
Receive Date:	22-AUG-24		
Collector:	Client		

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Ion Chromatography												
EPA 300.0 Anions Liquid "As Received"												
Sulfate		44.4	0.665	2.00	mg/L		5	CWW	08/26/24	1636	2662326	1
Chloride		6.83	0.0670	0.200	mg/L		1	CWW	08/25/24	0434	2662326	2
Fluoride	J	0.0496	0.0330	0.100	mg/L		1					
Mercury Analysis-CVAA												
7470 Cold Vapor Mercury, Liquid "As Received"												
Mercury	U	ND	0.0000670	0.000200	mg/L	1.00	1	JP2	08/28/24	0952	2662837	3
Metals Analysis-ICP-MS												
SW846 3005A/6020B "As Received"												
Boron		0.233	0.0260	0.0750	mg/L	1.00	5	BAJ	09/04/24	1408	2661583	4
Antimony	U	ND	0.00100	0.00300	mg/L	1.00	1	BAJ	09/03/24	1917	2661583	5
Arsenic	U	ND	0.00200	0.00500	mg/L	1.00	1					
Barium		0.0526	0.000670	0.00400	mg/L	1.00	1					
Beryllium	U	ND	0.000200	0.000500	mg/L	1.00	1					
Cadmium	U	ND	0.000300	0.00100	mg/L	1.00	1					
Calcium		5.23	0.0800	0.200	mg/L	1.00	1					
Chromium	U	ND	0.00300	0.0100	mg/L	1.00	1					
Cobalt	U	ND	0.000300	0.00100	mg/L	1.00	1					
Lead	U	ND	0.000500	0.00200	mg/L	1.00	1					
Lithium	U	ND	0.00300	0.0100	mg/L	1.00	1					
Molybdenum	U	ND	0.000200	0.00100	mg/L	1.00	1					
Selenium	U	ND	0.00150	0.00500	mg/L	1.00	1					
Thallium	U	ND	0.000600	0.00200	mg/L	1.00	1					
Vanadium	U	ND	0.00330	0.0200	mg/L	1.00	1					
Zinc	J	0.0168	0.00330	0.0200	mg/L	1.00	1					
Solids Analysis												
SM2540C Dissolved Solids "As Received"												
Total Dissolved Solids		77.0	2.38	10.0	mg/L			KLP1	08/28/24	1338	2663921	6

The following Prep Methods were performed:

Method	Description	Analyst	Date	Time	Prep Batch
SW846 7470A Prep	EPA 7470A Mercury Prep Liquid	JM13	08/27/24	1105	2662836
SW846 3005A	ICP-MS 3005A PREP	AB5	08/27/24	0805	2661582

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Certificate of Analysis

Report Date: October 3, 2024

Company :	Georgia Power Company
Address :	241 Ralph McGill Blvd NE Bin 10160 Atlanta, Georgia 30308
Contact:	Kristen Jurinko
Project:	Kraft - Grumman Road Landfill CCR Groundwater Compliance

Client Sample ID:	KRA-GWC-13	Project:	GPCC00102
Sample ID:	682330009	Client ID:	GPCC001

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method

The following Analytical Methods were performed:

Method	Description	Analyst Comments
1	EPA 300.0	
2	EPA 300.0	
3	SW846 7470A	
4	SW846 3005A/6020B	
5	SW846 3005A/6020B	
6	SM 2540C	

Notes:

Column headers are defined as follows:

DF: Dilution Factor	Lc/LC: Critical Level
DL: Detection Limit	PF: Prep Factor
MDA: Minimum Detectable Activity	RL: Reporting Limit
MDC: Minimum Detectable Concentration	SQL: Sample Quantitation Limit

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Certificate of Analysis

Report Date: October 3, 2024

Company :	Georgia Power Company
Address :	241 Ralph McGill Blvd NE Bin 10160 Atlanta, Georgia 30308
Contact:	Kristen Jurinko
Project:	Kraft - Grumman Road Landfill CCR Groundwater Compliance

Client Sample ID:	KRA-GWC-14	Project:	GPCC00102
Sample ID:	682330010	Client ID:	GPCC001
Matrix:	WG		
Collect Date:	21-AUG-24 12:15		
Receive Date:	22-AUG-24		
Collector:	Client		

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Ion Chromatography												
EPA 300.0 Anions Liquid "As Received"												
Fluoride	U	ND	0.0330	0.100	mg/L		1	CWW	08/25/24	0505	2662326	1
Chloride		24.3	0.335	1.00	mg/L		5	CWW	08/26/24	1708	2662326	2
Sulfate		71.5	0.665	2.00	mg/L		5					
Mercury Analysis-CVAA												
7470 Cold Vapor Mercury, Liquid "As Received"												
Mercury	U	ND	0.0000670	0.000200	mg/L	1.00	1	JP2	08/28/24	0954	2662837	3
Metals Analysis-ICP-MS												
SW846 3005A/6020B "As Received"												
Antimony	U	ND	0.00100	0.00300	mg/L	1.00	1	BAJ	09/03/24	1928	2661583	4
Arsenic	U	ND	0.00200	0.00500	mg/L	1.00	1					
Barium		0.0355	0.000670	0.00400	mg/L	1.00	1					
Beryllium	U	ND	0.000200	0.000500	mg/L	1.00	1					
Cadmium	U	ND	0.000300	0.00100	mg/L	1.00	1					
Calcium		49.5	0.0800	0.200	mg/L	1.00	1					
Chromium	U	ND	0.00300	0.0100	mg/L	1.00	1					
Cobalt	U	ND	0.000300	0.00100	mg/L	1.00	1					
Lead	U	ND	0.000500	0.00200	mg/L	1.00	1					
Lithium	U	ND	0.00300	0.0100	mg/L	1.00	1					
Molybdenum		0.00505	0.000200	0.00100	mg/L	1.00	1					
Selenium	J	0.00337	0.00150	0.00500	mg/L	1.00	1					
Thallium	U	ND	0.000600	0.00200	mg/L	1.00	1					
Vanadium	J	0.00380	0.00330	0.0200	mg/L	1.00	1					
Zinc	U	ND	0.00330	0.0200	mg/L	1.00	1					
Boron		0.0675	0.00520	0.0150	mg/L	1.00	1	BAJ	09/04/24	1405	2661583	5
Solids Analysis												
SM2540C Dissolved Solids "As Received"												
Total Dissolved Solids		239	2.38	10.0	mg/L			KLP1	08/28/24	1338	2663921	6

The following Prep Methods were performed:

Method	Description	Analyst	Date	Time	Prep Batch
SW846 7470A Prep	EPA 7470A Mercury Prep Liquid	JM13	08/27/24	1105	2662836
SW846 3005A	ICP-MS 3005A PREP	AB5	08/27/24	0805	2661582

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Certificate of Analysis

Report Date: October 3, 2024

Company :	Georgia Power Company
Address :	241 Ralph McGill Blvd NE Bin 10160 Atlanta, Georgia 30308
Contact:	Kristen Jurinko
Project:	Kraft - Grumman Road Landfill CCR Groundwater Compliance

Client Sample ID:	KRA-GWC-14	Project:	GPCC00102
Sample ID:	682330010	Client ID:	GPCC001

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method

The following Analytical Methods were performed:

Method	Description	Analyst Comments
1	EPA 300.0	
2	EPA 300.0	
3	SW846 7470A	
4	SW846 3005A/6020B	
5	SW846 3005A/6020B	
6	SM 2540C	

Notes:

Column headers are defined as follows:

DF: Dilution Factor
DL: Detection Limit
MDA: Minimum Detectable Activity
MDC: Minimum Detectable Concentration
Lc/LC: Critical Level
PF: Prep Factor
RL: Reporting Limit
SQL: Sample Quantitation Limit

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Certificate of Analysis

Report Date: October 3, 2024

Company :	Georgia Power Company
Address :	241 Ralph McGill Blvd NE Bin 10160 Atlanta, Georgia 30308
Contact:	Kristen Jurinko
Project:	Kraft - Grumman Road Landfill CCR Groundwater Compliance

Client Sample ID:	KRA-GWC-15	Project:	GPCC00102
Sample ID:	682330011	Client ID:	GPCC001
Matrix:	WG		
Collect Date:	21-AUG-24 17:30		
Receive Date:	22-AUG-24		
Collector:	Client		

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Ion Chromatography												
EPA 300.0 Anions Liquid "As Received"												
Chloride		5.49	0.0670	0.200	mg/L		1	CWW	08/25/24	0537	2662326	1
Fluoride	U	ND	0.0330	0.100	mg/L		1					
Sulfate		34.2	0.266	0.800	mg/L		2	CWW	08/26/24	1843	2662326	2
Mercury Analysis-CVAA												
7470 Cold Vapor Mercury, Liquid "As Received"												
Mercury	U	ND	0.0000670	0.000200	mg/L	1.00	1	JP2	08/28/24	0956	2662837	3
Metals Analysis-ICP-MS												
SW846 3005A/6020B "As Received"												
Boron		0.785	0.0260	0.0750	mg/L	1.00	5	BAJ	09/04/24	1409	2661583	4
Calcium		135	0.400	1.00	mg/L	1.00	5	BAJ	09/03/24	1937	2661583	5
Antimony	U	ND	0.00100	0.00300	mg/L	1.00	1	BAJ	09/03/24	1934	2661583	6
Arsenic		0.183	0.00200	0.00500	mg/L	1.00	1					
Barium		0.0541	0.000670	0.00400	mg/L	1.00	1					
Beryllium	U	ND	0.000200	0.000500	mg/L	1.00	1					
Cadmium	U	ND	0.000300	0.00100	mg/L	1.00	1					
Chromium	U	ND	0.00300	0.0100	mg/L	1.00	1					
Cobalt	U	ND	0.000300	0.00100	mg/L	1.00	1					
Lead	U	ND	0.000500	0.00200	mg/L	1.00	1					
Lithium	U	ND	0.00300	0.0100	mg/L	1.00	1					
Molybdenum		0.0752	0.000200	0.00100	mg/L	1.00	1					
Selenium	J	0.00314	0.00150	0.00500	mg/L	1.00	1					
Thallium	U	ND	0.000600	0.00200	mg/L	1.00	1					
Vanadium	J	0.00338	0.00330	0.0200	mg/L	1.00	1					
Zinc	U	ND	0.00330	0.0200	mg/L	1.00	1					
Solids Analysis												
SM2540C Dissolved Solids "As Received"												
Total Dissolved Solids		464	2.38	10.0	mg/L			KLP1	08/28/24	1338	2663921	7

The following Prep Methods were performed:

Method	Description	Analyst	Date	Time	Prep Batch
SW846 3005A	ICP-MS 3005A PREP	AB5	08/27/24	0805	2661582
SW846 7470A Prep	EPA 7470A Mercury Prep Liquid	JM13	08/27/24	1105	2662836

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Certificate of Analysis

Report Date: October 3, 2024

Company :	Georgia Power Company
Address :	241 Ralph McGill Blvd NE Bin 10160 Atlanta, Georgia 30308
Contact:	Kristen Jurinko
Project:	Kraft - Grumman Road Landfill CCR Groundwater Compliance

Client Sample ID:	KRA-GWC-15	Project:	GPCC00102
Sample ID:	682330011	Client ID:	GPCC001

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method

The following Analytical Methods were performed:

Method	Description	Analyst Comments
1	EPA 300.0	
2	EPA 300.0	
3	SW846 7470A	
4	SW846 3005A/6020B	
5	SW846 3005A/6020B	
6	SW846 3005A/6020B	
7	SM 2540C	

Notes:

Column headers are defined as follows:

DF: Dilution Factor	Lc/LC: Critical Level
DL: Detection Limit	PF: Prep Factor
MDA: Minimum Detectable Activity	RL: Reporting Limit
MDC: Minimum Detectable Concentration	SQL: Sample Quantitation Limit

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Certificate of Analysis

Report Date: October 3, 2024

Company :	Georgia Power Company
Address :	241 Ralph McGill Blvd NE Bin 10160 Atlanta, Georgia 30308
Contact:	Kristen Jurinko
Project:	Kraft - Grumman Road Landfill CCR Groundwater Compliance

Client Sample ID:	KRA-GWC-16	Project:	GPCC00102
Sample ID:	682330012	Client ID:	GPCC001
Matrix:	WG		
Collect Date:	21-AUG-24 16:00		
Receive Date:	22-AUG-24		
Collector:	Client		

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Ion Chromatography												
EPA 300.0 Anions Liquid "As Received"												
Fluoride	U	ND	0.0330	0.100	mg/L		1	CWW	08/25/24	0713	2662326	1
Sulfate		1370	26.6	80.0	mg/L		200	CWW	08/26/24	2051	2662326	2
Chloride		34.8	0.335	1.00	mg/L		5	CWW	08/26/24	1915	2662326	3
Mercury Analysis-CVAA												
7470 Cold Vapor Mercury, Liquid "As Received"												
Mercury	U	ND	0.0000670	0.000200	mg/L	1.00	1	JP2	08/28/24	0957	2662837	4
Metals Analysis-ICP-MS												
SW846 3005A/6020B "As Received"												
Calcium		232	0.800	2.00	mg/L	1.00	10	BAJ	09/04/24	1445	2661583	5
Boron		22.6	1.04	3.00	mg/L	1.00	200	BAJ	09/04/24	1441	2661583	6
Antimony	U	ND	0.00100	0.00300	mg/L	1.00	1	BAJ	09/03/24	1939	2661583	7
Arsenic		0.131	0.00200	0.00500	mg/L	1.00	1					
Barium		0.111	0.000670	0.00400	mg/L	1.00	1					
Beryllium	U	ND	0.000200	0.000500	mg/L	1.00	1					
Cadmium	U	ND	0.000300	0.00100	mg/L	1.00	1					
Chromium	U	ND	0.00300	0.0100	mg/L	1.00	1					
Cobalt	U	ND	0.000300	0.00100	mg/L	1.00	1					
Lead	U	ND	0.000500	0.00200	mg/L	1.00	1					
Lithium	U	ND	0.00300	0.0100	mg/L	1.00	1					
Molybdenum		0.114	0.000200	0.00100	mg/L	1.00	1					
Selenium	J	0.00313	0.00150	0.00500	mg/L	1.00	1					
Thallium	U	ND	0.000600	0.00200	mg/L	1.00	1					
Vanadium	J	0.00407	0.00330	0.0200	mg/L	1.00	1					
Zinc	U	ND	0.00330	0.0200	mg/L	1.00	1					
Solids Analysis												
SM2540C Dissolved Solids "As Received"												
Total Dissolved Solids		2100	23.8	100	mg/L			KLP1	08/28/24	1338	2663921	8

The following Prep Methods were performed:

Method	Description	Analyst	Date	Time	Prep Batch
SW846 7470A Prep	EPA 7470A Mercury Prep Liquid	JM13	08/27/24	1105	2662836
SW846 3005A	ICP-MS 3005A PREP	AB5	08/27/24	0805	2661582

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Certificate of Analysis

Report Date: October 3, 2024

Company :	Georgia Power Company
Address :	241 Ralph McGill Blvd NE Bin 10160 Atlanta, Georgia 30308
Contact:	Kristen Jurinko
Project:	Kraft - Grumman Road Landfill CCR Groundwater Compliance

Client Sample ID:	KRA-GWC-16	Project:	GPCC00102
Sample ID:	682330012	Client ID:	GPCC001

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method

The following Analytical Methods were performed:

Method	Description	Analyst Comments
1	EPA 300.0	
2	EPA 300.0	
3	EPA 300.0	
4	SW846 7470A	
5	SW846 3005A/6020B	
6	SW846 3005A/6020B	
7	SW846 3005A/6020B	
8	SM 2540C	

Notes:

Column headers are defined as follows:

DF: Dilution Factor
DL: Detection Limit
MDA: Minimum Detectable Activity
MDC: Minimum Detectable Concentration
Lc/LC: Critical Level
PF: Prep Factor
RL: Reporting Limit
SQL: Sample Quantitation Limit

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Certificate of Analysis

Report Date: October 3, 2024

Company :	Georgia Power Company
Address :	241 Ralph McGill Blvd NE Bin 10160 Atlanta, Georgia 30308
Contact:	Kristen Jurinko
Project:	Kraft - Grumman Road Landfill CCR Groundwater Compliance

Client Sample ID:	KRA-GWC-17	Project:	GPCC00102
Sample ID:	682330013	Client ID:	GPCC001
Matrix:	WG		
Collect Date:	21-AUG-24 17:41		
Receive Date:	22-AUG-24		
Collector:	Client		

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Ion Chromatography												
EPA 300.0 Anions Liquid "As Received"												
Chloride		479	6.70	20.0	mg/L		100	CWW	08/26/24	2226	2662326	1
Sulfate		453	13.3	40.0	mg/L		100					
Fluoride		0.642	0.0330	0.100	mg/L		1	CWW	08/25/24	0848	2662326	2
Mercury Analysis-CVAA												
7470 Cold Vapor Mercury, Liquid "As Received"												
Mercury	U	ND	0.0000670	0.000200	mg/L	1.00	1	JP2	08/28/24	0959	2662837	3
Metals Analysis-ICP-MS												
SW846 3005A/6020B "As Received"												
Antimony	U	ND	0.00100	0.00300	mg/L	1.00	1	BAJ	09/03/24	1624	2661585	4
Arsenic	U	ND	0.00200	0.00500	mg/L	1.00	1					
Barium		0.0254	0.000670	0.00400	mg/L	1.00	1					
Beryllium		0.00186	0.000200	0.000500	mg/L	1.00	1					
Cadmium	U	ND	0.000300	0.00100	mg/L	1.00	1					
Chromium	U	ND	0.00300	0.0100	mg/L	1.00	1					
Cobalt		0.00256	0.000300	0.00100	mg/L	1.00	1					
Lead	U	ND	0.000500	0.00200	mg/L	1.00	1					
Lithium	J	0.00567	0.00300	0.0100	mg/L	1.00	1					
Molybdenum		0.00354	0.000200	0.00100	mg/L	1.00	1					
Selenium	U	ND	0.00150	0.00500	mg/L	1.00	1					
Thallium	U	ND	0.000600	0.00200	mg/L	1.00	1					
Vanadium	U	ND	0.00330	0.0200	mg/L	1.00	1					
Zinc	J	0.00660	0.00330	0.0200	mg/L	1.00	1					
Calcium		78.9	0.400	1.00	mg/L	1.00	5	BAJ	09/03/24	1639	2661585	5
Boron		1.66	0.0520	0.150	mg/L	1.00	10	BAJ	09/04/24	1219	2661585	6
Solids Analysis												
SM2540C Dissolved Solids "As Received"												
Total Dissolved Solids		1120	23.8	100	mg/L			KLP1	08/28/24	1338	2663921	7

The following Prep Methods were performed:

Method	Description	Analyst	Date	Time	Prep Batch
SW846 7470A Prep	EPA 7470A Mercury Prep Liquid	JM13	08/27/24	1105	2662836
SW846 3005A	ICP-MS 3005A PREP	AB5	08/27/24	0805	2661584

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Certificate of Analysis

Report Date: October 3, 2024

Company :	Georgia Power Company
Address :	241 Ralph McGill Blvd NE Bin 10160 Atlanta, Georgia 30308
Contact:	Kristen Jurinko
Project:	Kraft - Grumman Road Landfill CCR Groundwater Compliance

Client Sample ID:	KRA-GWC-17	Project:	GPCC00102
Sample ID:	682330013	Client ID:	GPCC001

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method

The following Analytical Methods were performed:

Method	Description	Analyst Comments
1	EPA 300.0	
2	EPA 300.0	
3	SW846 7470A	
4	SW846 3005A/6020B	
5	SW846 3005A/6020B	
6	SW846 3005A/6020B	
7	SM 2540C	

Notes:

Column headers are defined as follows:

DF: Dilution Factor
DL: Detection Limit
MDA: Minimum Detectable Activity
MDC: Minimum Detectable Concentration
Lc/LC: Critical Level
PF: Prep Factor
RL: Reporting Limit
SQL: Sample Quantitation Limit

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Certificate of Analysis

Report Date: October 3, 2024

Company : Georgia Power Company
Address : 241 Ralph McGill Blvd NE
Bin 10160
Atlanta, Georgia 30308
Contact: Kristen Jurinko
Project: Kraft - Grumman Road Landfill CCR Groundwater Compliance

Client Sample ID: KRA-GWC-20
Sample ID: 682330014
Matrix: WG
Collect Date: 21-AUG-24 12:55
Receive Date: 22-AUG-24
Collector: Client

Project: GPCC00102
Client ID: GPCC001

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Ion Chromatography												
EPA 300.0 Anions Liquid "As Received"												
Chloride		13.1	0.268	0.800	mg/L		4	CWW	08/26/24	2258	2662326	1
Sulfate		688	13.3	40.0	mg/L		100	CWW	08/26/24	2330	2662326	2
Fluoride		0.168	0.0330	0.100	mg/L		1	CWW	08/25/24	0920	2662326	3
Mercury Analysis-CVAA												
7470 Cold Vapor Mercury, Liquid "As Received"												
Mercury	U	ND	0.0000670	0.000200	mg/L	1.00	1	JP2	08/28/24	1001	2662837	4
Metals Analysis-ICP-MS												
SW846 3005A/6020B "As Received"												
Boron		10.1	0.520	1.50	mg/L	1.00	100	BAJ	09/04/24	1224	2661585	5
Antimony	U	ND	0.00100	0.00300	mg/L	1.00	1	BAJ	09/03/24	1658	2661585	6
Arsenic		0.423	0.00200	0.00500	mg/L	1.00	1					
Barium		0.226	0.000670	0.00400	mg/L	1.00	1					
Beryllium	U	ND	0.000200	0.000500	mg/L	1.00	1					
Cadmium	U	ND	0.000300	0.00100	mg/L	1.00	1					
Chromium	U	ND	0.00300	0.0100	mg/L	1.00	1					
Cobalt	U	ND	0.000300	0.00100	mg/L	1.00	1					
Lead	U	ND	0.000500	0.00200	mg/L	1.00	1					
Lithium	U	ND	0.00300	0.0100	mg/L	1.00	1					
Molybdenum		0.506	0.000200	0.00100	mg/L	1.00	1					
Selenium	J	0.00209	0.00150	0.00500	mg/L	1.00	1					
Thallium	U	ND	0.000600	0.00200	mg/L	1.00	1					
Vanadium	J	0.00558	0.00330	0.0200	mg/L	1.00	1					
Zinc	U	ND	0.00330	0.0200	mg/L	1.00	1					
Calcium		169	0.400	1.00	mg/L	1.00	5	BAJ	09/03/24	1701	2661585	7
Solids Analysis												
SM2540C Dissolved Solids "As Received"												
Total Dissolved Solids		1210	2.38	10.0	mg/L			KLP1	08/28/24	1338	2663921	8

The following Prep Methods were performed:

Method	Description	Analyst	Date	Time	Prep Batch
SW846 3005A	ICP-MS 3005A PREP	AB5	08/27/24	0805	2661584
SW846 7470A Prep	EPA 7470A Mercury Prep Liquid	JM13	08/27/24	1105	2662836

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Certificate of Analysis

Report Date: October 3, 2024

Company :	Georgia Power Company
Address :	241 Ralph McGill Blvd NE Bin 10160 Atlanta, Georgia 30308
Contact:	Kristen Jurinko
Project:	Kraft - Grumman Road Landfill CCR Groundwater Compliance

Client Sample ID:	KRA-GWC-20	Project:	GPCC00102
Sample ID:	682330014	Client ID:	GPCC001

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method

The following Analytical Methods were performed:

Method	Description	Analyst Comments
1	EPA 300.0	
2	EPA 300.0	
3	EPA 300.0	
4	SW846 7470A	
5	SW846 3005A/6020B	
6	SW846 3005A/6020B	
7	SW846 3005A/6020B	
8	SM 2540C	

Notes:

Column headers are defined as follows:

DF: Dilution Factor
DL: Detection Limit
MDA: Minimum Detectable Activity
MDC: Minimum Detectable Concentration
Lc/LC: Critical Level
PF: Prep Factor
RL: Reporting Limit
SQL: Sample Quantitation Limit

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Certificate of Analysis

Report Date: October 3, 2024

Company :	Georgia Power Company
Address :	241 Ralph McGill Blvd NE Bin 10160 Atlanta, Georgia 30308
Contact:	Kristen Jurinko
Project:	Kraft - Grumman Road Landfill CCR Groundwater Compliance

Client Sample ID:	KRA-MW-23D	Project:	GPCC00102
Sample ID:	682330015	Client ID:	GPCC001
Matrix:	WG		
Collect Date:	21-AUG-24 10:45		
Receive Date:	22-AUG-24		
Collector:	Client		

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Ion Chromatography												
EPA 300.0 Anions Liquid "As Received"												
Sulfate		34.2	0.266	0.800	mg/L		2	CWW	08/27/24	0105	2662326	1
Chloride		9.04	0.0670	0.200	mg/L		1	CWW	08/25/24	0952	2662326	2
Fluoride	J	0.0361	0.0330	0.100	mg/L		1					
Mercury Analysis-CVAA												
7470 Cold Vapor Mercury, Liquid "As Received"												
Mercury	U	ND	0.0000670	0.000200	mg/L	1.00	1	JP2	08/28/24	1006	2662837	3
Metals Analysis-ICP-MS												
SW846 3005A/6020B "As Received"												
Antimony	U	ND	0.00100	0.00300	mg/L	1.00	1	BAJ	09/03/24	1704	2661585	4
Arsenic	U	ND	0.00200	0.00500	mg/L	1.00	1					
Barium		0.0642	0.000670	0.00400	mg/L	1.00	1					
Beryllium	U	ND	0.000200	0.000500	mg/L	1.00	1					
Cadmium	U	ND	0.000300	0.00100	mg/L	1.00	1					
Calcium		8.39	0.0800	0.200	mg/L	1.00	1					
Chromium	U	ND	0.00300	0.0100	mg/L	1.00	1					
Cobalt	U	ND	0.000300	0.00100	mg/L	1.00	1					
Lead	U	ND	0.000500	0.00200	mg/L	1.00	1					
Lithium	U	ND	0.00300	0.0100	mg/L	1.00	1					
Molybdenum	U	ND	0.000200	0.00100	mg/L	1.00	1					
Selenium	U	ND	0.00150	0.00500	mg/L	1.00	1					
Thallium	U	ND	0.000600	0.00200	mg/L	1.00	1					
Vanadium	U	ND	0.00330	0.0200	mg/L	1.00	1					
Zinc	U	ND	0.00330	0.0200	mg/L	1.00	1					
Boron		0.0276	0.00520	0.0150	mg/L	1.00	1	BAJ	09/04/24	1203	2661585	5
Solids Analysis												
SM2540C Dissolved Solids "As Received"												
Total Dissolved Solids		100	2.38	10.0	mg/L			KLP1	08/28/24	1338	2663921	6

The following Prep Methods were performed:

Method	Description	Analyst	Date	Time	Prep Batch
SW846 7470A Prep	EPA 7470A Mercury Prep Liquid	JM13	08/27/24	1105	2662836
SW846 3005A	ICP-MS 3005A PREP	AB5	08/27/24	0805	2661584

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Certificate of Analysis

Report Date: October 3, 2024

Company :	Georgia Power Company
Address :	241 Ralph McGill Blvd NE Bin 10160 Atlanta, Georgia 30308
Contact:	Kristen Jurinko
Project:	Kraft - Grumman Road Landfill CCR Groundwater Compliance

Client Sample ID:	KRA-MW-23D	Project:	GPCC00102
Sample ID:	682330015	Client ID:	GPCC001

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method

The following Analytical Methods were performed:

Method	Description	Analyst Comments
1	EPA 300.0	
2	EPA 300.0	
3	SW846 7470A	
4	SW846 3005A/6020B	
5	SW846 3005A/6020B	
6	SM 2540C	

Notes:

Column headers are defined as follows:

DF: Dilution Factor
DL: Detection Limit
MDA: Minimum Detectable Activity
MDC: Minimum Detectable Concentration
Lc/LC: Critical Level
PF: Prep Factor
RL: Reporting Limit
SQL: Sample Quantitation Limit

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Certificate of Analysis

Report Date: October 3, 2024

Company :	Georgia Power Company
Address :	241 Ralph McGill Blvd NE Bin 10160 Atlanta, Georgia 30308
Contact:	Kristen Jurinko
Project:	Kraft - Grumman Road Landfill CCR Groundwater Compliance

Client Sample ID:	KRA-MW-24D	Project:	GPCC00102
Sample ID:	682330016	Client ID:	GPCC001
Matrix:	WG		
Collect Date:	21-AUG-24 18:01		
Receive Date:	22-AUG-24		
Collector:	Client		

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Ion Chromatography												
EPA 300.0 Anions Liquid "As Received"												
Chloride		6.37	0.0670	0.200	mg/L		1	CWW	08/25/24	1024	2662326	1
Fluoride	J	0.0370	0.0330	0.100	mg/L		1					
Sulfate	U	ND	0.133	0.400	mg/L		1					
Mercury Analysis-CVAA												
7470 Cold Vapor Mercury, Liquid "As Received"												
Mercury	U	ND	0.0000670	0.000200	mg/L	1.00	1	JP2	08/28/24	1007	2662837	2
Metals Analysis-ICP-MS												
SW846 3005A/6020B "As Received"												
Boron		0.0176	0.00520	0.0150	mg/L	1.00	1	BAJ	09/04/24	1204	2661585	3
Antimony	U	ND	0.00100	0.00300	mg/L	1.00	1	BAJ	09/03/24	1710	2661585	4
Arsenic	U	ND	0.00200	0.00500	mg/L	1.00	1					
Barium		0.0280	0.000670	0.00400	mg/L	1.00	1					
Beryllium	U	ND	0.000200	0.000500	mg/L	1.00	1					
Cadmium	U	ND	0.000300	0.00100	mg/L	1.00	1					
Calcium		2.54	0.0800	0.200	mg/L	1.00	1					
Chromium	U	ND	0.00300	0.0100	mg/L	1.00	1					
Cobalt	U	ND	0.000300	0.00100	mg/L	1.00	1					
Lead	U	ND	0.000500	0.00200	mg/L	1.00	1					
Lithium	U	ND	0.00300	0.0100	mg/L	1.00	1					
Molybdenum	J	0.000894	0.000200	0.00100	mg/L	1.00	1					
Selenium	U	ND	0.00150	0.00500	mg/L	1.00	1					
Thallium	U	ND	0.000600	0.00200	mg/L	1.00	1					
Vanadium	U	ND	0.00330	0.0200	mg/L	1.00	1					
Zinc	U	ND	0.00330	0.0200	mg/L	1.00	1					
Solids Analysis												
SM2540C Dissolved Solids "As Received"												
Total Dissolved Solids		46.0	2.38	10.0	mg/L			KLP1	08/28/24	1338	2663921	5

The following Prep Methods were performed:

Method	Description	Analyst	Date	Time	Prep Batch
SW846 7470A Prep	EPA 7470A Mercury Prep Liquid	JM13	08/27/24	1105	2662836
SW846 3005A	ICP-MS 3005A PREP	AB5	08/27/24	0805	2661584

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Certificate of Analysis

Report Date: October 3, 2024

Company :	Georgia Power Company
Address :	241 Ralph McGill Blvd NE Bin 10160 Atlanta, Georgia 30308
Contact:	Kristen Jurinko
Project:	Kraft - Grumman Road Landfill CCR Groundwater Compliance

Client Sample ID:	KRA-MW-24D	Project:	GPCC00102
Sample ID:	682330016	Client ID:	GPCC001

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method

The following Analytical Methods were performed:

Method	Description	Analyst Comments
1	EPA 300.0	
2	SW846 7470A	
3	SW846 3005A/6020B	
4	SW846 3005A/6020B	
5	SM 2540C	

Notes:

Column headers are defined as follows:

DF: Dilution Factor	Lc/LC: Critical Level
DL: Detection Limit	PF: Prep Factor
MDA: Minimum Detectable Activity	RL: Reporting Limit
MDC: Minimum Detectable Concentration	SQL: Sample Quantitation Limit

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Certificate of Analysis

Report Date: October 3, 2024

Company :	Georgia Power Company
Address :	241 Ralph McGill Blvd NE Bin 10160 Atlanta, Georgia 30308
Contact:	Kristen Jurinko
Project:	Kraft - Grumman Road Landfill CCR Groundwater Compliance

Client Sample ID:	KRA-MW-25D	Project:	GPCC00102
Sample ID:	682330017	Client ID:	GPCC001
Matrix:	WG		
Collect Date:	21-AUG-24 16:20		
Receive Date:	22-AUG-24		
Collector:	Client		

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Ion Chromatography												
EPA 300.0 Anions Liquid "As Received"												
Chloride		6.61	0.0670	0.200	mg/L		1	CWW	08/25/24	1056	2662326	1
Fluoride		0.216	0.0330	0.100	mg/L		1					
Sulfate	U	ND	0.133	0.400	mg/L		1					
Mercury Analysis-CVAA												
7470 Cold Vapor Mercury, Liquid "As Received"												
Mercury	U	ND	0.0000670	0.000200	mg/L	1.00	1	JP2	08/28/24	1009	2662837	2
Metals Analysis-ICP-MS												
SW846 3005A/6020B "As Received"												
Antimony	U	ND	0.00100	0.00300	mg/L	1.00	1	BAJ	09/03/24	1721	2661585	3
Arsenic	U	ND	0.00200	0.00500	mg/L	1.00	1					
Barium		0.0253	0.000670	0.00400	mg/L	1.00	1					
Beryllium	U	ND	0.000200	0.000500	mg/L	1.00	1					
Cadmium	U	ND	0.000300	0.00100	mg/L	1.00	1					
Calcium		3.06	0.0800	0.200	mg/L	1.00	1					
Chromium	U	ND	0.00300	0.0100	mg/L	1.00	1					
Cobalt	U	ND	0.000300	0.00100	mg/L	1.00	1					
Lead	U	ND	0.000500	0.00200	mg/L	1.00	1					
Lithium	U	ND	0.00300	0.0100	mg/L	1.00	1					
Molybdenum	U	ND	0.000200	0.00100	mg/L	1.00	1					
Selenium	U	ND	0.00150	0.00500	mg/L	1.00	1					
Thallium	U	ND	0.000600	0.00200	mg/L	1.00	1					
Vanadium	U	ND	0.00330	0.0200	mg/L	1.00	1					
Zinc	U	ND	0.00330	0.0200	mg/L	1.00	1					
Boron		0.0175	0.00520	0.0150	mg/L	1.00	1	BAJ	09/04/24	1205	2661585	4
Solids Analysis												
SM2540C Dissolved Solids "As Received"												
Total Dissolved Solids		53.0	2.38	10.0	mg/L			KLP1	08/28/24	1338	2663921	5

The following Prep Methods were performed:

Method	Description	Analyst	Date	Time	Prep Batch
SW846 7470A Prep	EPA 7470A Mercury Prep Liquid	JM13	08/27/24	1105	2662836
SW846 3005A	ICP-MS 3005A PREP	AB5	08/27/24	0805	2661584

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Certificate of Analysis

Report Date: October 3, 2024

Company :	Georgia Power Company
Address :	241 Ralph McGill Blvd NE Bin 10160 Atlanta, Georgia 30308
Contact:	Kristen Jurinko
Project:	Kraft - Grumman Road Landfill CCR Groundwater Compliance

Client Sample ID:	KRA-MW-25D	Project:	GPCC00102
Sample ID:	682330017	Client ID:	GPCC001

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method

The following Analytical Methods were performed:

Method	Description	Analyst Comments
1	EPA 300.0	
2	SW846 7470A	
3	SW846 3005A/6020B	
4	SW846 3005A/6020B	
5	SM 2540C	

Notes:

Column headers are defined as follows:

DF: Dilution Factor	Lc/LC: Critical Level
DL: Detection Limit	PF: Prep Factor
MDA: Minimum Detectable Activity	RL: Reporting Limit
MDC: Minimum Detectable Concentration	SQL: Sample Quantitation Limit

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Certificate of Analysis

Report Date: October 3, 2024

Company :	Georgia Power Company
Address :	241 Ralph McGill Blvd NE Bin 10160 Atlanta, Georgia 30308
Contact:	Kristen Jurinko
Project:	Kraft - Grumman Road Landfill CCR Groundwater Compliance

Client Sample ID:	KRA-GRL-FD-03	Project:	GPCC00102
Sample ID:	682330018	Client ID:	GPCC001
Matrix:	WG		
Collect Date:	21-AUG-24 12:00		
Receive Date:	22-AUG-24		
Collector:	Client		

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Ion Chromatography												
EPA 300.0 Anions Liquid "As Received"												
Chloride		5.66	0.0670	0.200	mg/L		1	CWW	08/25/24	1128	2662326	1
Fluoride	J	0.0465	0.0330	0.100	mg/L		1					
Sulfate		11.3	0.133	0.400	mg/L		1					
Mercury Analysis-CVAA												
7470 Cold Vapor Mercury, Liquid "As Received"												
Mercury	U	ND	0.0000670	0.000200	mg/L	1.00	1	JP2	08/28/24	1010	2662837	2
Metals Analysis-ICP-MS												
SW846 3005A/6020B "As Received"												
Boron		0.0212	0.00520	0.0150	mg/L	1.00	1	BAJ	09/04/24	1206	2661585	3
Antimony	U	ND	0.00100	0.00300	mg/L	1.00	1	BAJ	09/03/24	1727	2661585	4
Arsenic	U	ND	0.00200	0.00500	mg/L	1.00	1					
Barium		0.0482	0.000670	0.00400	mg/L	1.00	1					
Beryllium	U	ND	0.000200	0.000500	mg/L	1.00	1					
Cadmium	U	ND	0.000300	0.00100	mg/L	1.00	1					
Calcium	J	0.163	0.0800	0.200	mg/L	1.00	1					
Chromium	U	ND	0.00300	0.0100	mg/L	1.00	1					
Cobalt	U	ND	0.000300	0.00100	mg/L	1.00	1					
Lead	U	ND	0.000500	0.00200	mg/L	1.00	1					
Lithium	U	ND	0.00300	0.0100	mg/L	1.00	1					
Molybdenum	U	ND	0.000200	0.00100	mg/L	1.00	1					
Selenium	U	ND	0.00150	0.00500	mg/L	1.00	1					
Thallium	U	ND	0.000600	0.00200	mg/L	1.00	1					
Vanadium	U	ND	0.00330	0.0200	mg/L	1.00	1					
Zinc	U	ND	0.00330	0.0200	mg/L	1.00	1					
Solids Analysis												
SM2540C Dissolved Solids "As Received"												
Total Dissolved Solids		35.0	2.38	10.0	mg/L			KLP1	08/28/24	1517	2663923	5

The following Prep Methods were performed:

Method	Description	Analyst	Date	Time	Prep Batch
SW846 3005A	ICP-MS 3005A PREP	AB5	08/27/24	0805	2661584
SW846 7470A Prep	EPA 7470A Mercury Prep Liquid	JM13	08/27/24	1105	2662836

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Certificate of Analysis

Report Date: October 3, 2024

Company :	Georgia Power Company
Address :	241 Ralph McGill Blvd NE Bin 10160 Atlanta, Georgia 30308
Contact:	Kristen Jurinko
Project:	Kraft - Grumman Road Landfill CCR Groundwater Compliance

Client Sample ID:	KRA-GRL-FD-03	Project:	GPCC00102
Sample ID:	682330018	Client ID:	GPCC001

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method

The following Analytical Methods were performed:

Method	Description	Analyst Comments
1	EPA 300.0	
2	SW846 7470A	
3	SW846 3005A/6020B	
4	SW846 3005A/6020B	
5	SM 2540C	

Notes:

Column headers are defined as follows:

DF: Dilution Factor	Lc/LC: Critical Level
DL: Detection Limit	PF: Prep Factor
MDA: Minimum Detectable Activity	RL: Reporting Limit
MDC: Minimum Detectable Concentration	SQL: Sample Quantitation Limit

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Certificate of Analysis

Report Date: October 3, 2024

Company :	Georgia Power Company
Address :	241 Ralph McGill Blvd NE Bin 10160 Atlanta, Georgia 30308
Contact:	Kristen Jurinko
Project:	Kraft - Grumman Road Landfill CCR Groundwater Compliance

Client Sample ID:	KRA-GRL-FB-02	Project:	GPCC00102
Sample ID:	682330019	Client ID:	GPCC001
Matrix:	WQ		
Collect Date:	21-AUG-24 10:35		
Receive Date:	22-AUG-24		
Collector:	Client		

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Ion Chromatography												
EPA 300.0 Anions Liquid "As Received"												
Chloride	U	ND	0.0670	0.200	mg/L		1	CWW	08/25/24	1159	2662326	1
Fluoride	U	ND	0.0330	0.100	mg/L		1					
Sulfate	U	ND	0.133	0.400	mg/L		1					
Mercury Analysis-CVAA												
7470 Cold Vapor Mercury, Liquid "As Received"												
Mercury	U	ND	0.0000670	0.000200	mg/L	1.00	1	JP2	08/28/24	1012	2662837	2
Metals Analysis-ICP-MS												
SW846 3005A/6020B "As Received"												
Antimony	U	ND	0.00100	0.00300	mg/L	1.00	1	BAJ	09/03/24	1610	2661585	3
Arsenic	U	ND	0.00200	0.00500	mg/L	1.00	1					
Barium	U	ND	0.000670	0.00400	mg/L	1.00	1					
Beryllium	U	ND	0.000200	0.000500	mg/L	1.00	1					
Cadmium	U	ND	0.000300	0.00100	mg/L	1.00	1					
Calcium	U	ND	0.0800	0.200	mg/L	1.00	1					
Chromium	U	ND	0.00300	0.0100	mg/L	1.00	1					
Cobalt	U	ND	0.000300	0.00100	mg/L	1.00	1					
Lead	U	ND	0.000500	0.00200	mg/L	1.00	1					
Lithium	U	ND	0.00300	0.0100	mg/L	1.00	1					
Molybdenum	U	ND	0.000200	0.00100	mg/L	1.00	1					
Selenium	U	ND	0.00150	0.00500	mg/L	1.00	1					
Thallium	U	ND	0.000600	0.00200	mg/L	1.00	1					
Vanadium	U	ND	0.00330	0.0200	mg/L	1.00	1					
Zinc	U	ND	0.00330	0.0200	mg/L	1.00	1					
Boron	U	ND	0.00520	0.0150	mg/L	1.00	1	BAJ	09/04/24	1200	2661585	4
Solids Analysis												
SM2540C Dissolved Solids "As Received"												
Total Dissolved Solids	U	ND	2.38	10.0	mg/L			KLP1	08/28/24	1338	2663921	5

The following Prep Methods were performed:

Method	Description	Analyst	Date	Time	Prep Batch
SW846 7470A Prep	EPA 7470A Mercury Prep Liquid	JM13	08/27/24	1105	2662836
SW846 3005A	ICP-MS 3005A PREP	AB5	08/27/24	0805	2661584

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Certificate of Analysis

Report Date: October 3, 2024

Company :	Georgia Power Company
Address :	241 Ralph McGill Blvd NE Bin 10160 Atlanta, Georgia 30308
Contact:	Kristen Jurinko
Project:	Kraft - Grumman Road Landfill CCR Groundwater Compliance

Client Sample ID:	KRA-GRL-FB-02	Project:	GPCC00102
Sample ID:	682330019	Client ID:	GPCC001

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method

The following Analytical Methods were performed:

Method	Description	Analyst Comments
1	EPA 300.0	
2	SW846 7470A	
3	SW846 3005A/6020B	
4	SW846 3005A/6020B	
5	SM 2540C	

Notes:

Column headers are defined as follows:

DF: Dilution Factor	Lc/LC: Critical Level
DL: Detection Limit	PF: Prep Factor
MDA: Minimum Detectable Activity	RL: Reporting Limit
MDC: Minimum Detectable Concentration	SQL: Sample Quantitation Limit

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Certificate of Analysis

Report Date: October 3, 2024

Company : Georgia Power Company
Address : 241 Ralph McGill Blvd NE
Bin 10160
Atlanta, Georgia 30308
Contact: Kristen Jurinko
Project: Kraft - Grumman Road Landfill CCR Groundwater Compliance

Client Sample ID: KRA-GRL-FB-03
Sample ID: 682330020
Matrix: WQ
Collect Date: 21-AUG-24 18:40
Receive Date: 22-AUG-24
Collector: Client

Project: GPCC00102
Client ID: GPCC001

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Ion Chromatography												
EPA 300.0 Anions Liquid "As Received"												
Chloride	U	ND	0.0670	0.200	mg/L		1	CWW	08/25/24	1335	2662326	1
Fluoride	U	ND	0.0330	0.100	mg/L		1					
Sulfate	U	ND	0.133	0.400	mg/L		1					
Mercury Analysis-CVAA												
7470 Cold Vapor Mercury, Liquid "As Received"												
Mercury	U	ND	0.0000670	0.000200	mg/L	1.00	1	JP2	08/28/24	1014	2662837	2
Metals Analysis-ICP-MS												
SW846 3005A/6020B "As Received"												
Antimony	U	ND	0.00100	0.00300	mg/L	1.00	1	BAJ	09/03/24	1613	2661585	3
Arsenic	U	ND	0.00200	0.00500	mg/L	1.00	1					
Barium	U	ND	0.000670	0.00400	mg/L	1.00	1					
Beryllium	U	ND	0.000200	0.000500	mg/L	1.00	1					
Cadmium	U	ND	0.000300	0.00100	mg/L	1.00	1					
Calcium	U	ND	0.0800	0.200	mg/L	1.00	1					
Chromium	U	ND	0.00300	0.0100	mg/L	1.00	1					
Cobalt	U	ND	0.000300	0.00100	mg/L	1.00	1					
Lead	U	ND	0.000500	0.00200	mg/L	1.00	1					
Lithium	U	ND	0.00300	0.0100	mg/L	1.00	1					
Molybdenum	U	ND	0.000200	0.00100	mg/L	1.00	1					
Selenium	U	ND	0.00150	0.00500	mg/L	1.00	1					
Thallium	U	ND	0.000600	0.00200	mg/L	1.00	1					
Vanadium	U	ND	0.00330	0.0200	mg/L	1.00	1					
Zinc	U	ND	0.00330	0.0200	mg/L	1.00	1					
Boron	U	ND	0.00520	0.0150	mg/L	1.00	1	BAJ	09/04/24	1201	2661585	4
Solids Analysis												
SM2540C Dissolved Solids "As Received"												
Total Dissolved Solids	U	ND	2.38	10.0	mg/L			KLP1	08/28/24	1517	2663923	5

The following Prep Methods were performed:

Method	Description	Analyst	Date	Time	Prep Batch
SW846 7470A Prep	EPA 7470A Mercury Prep Liquid	JM13	08/27/24	1105	2662836
SW846 3005A	ICP-MS 3005A PREP	AB5	08/27/24	0805	2661584

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Certificate of Analysis

Report Date: October 3, 2024

Company :	Georgia Power Company
Address :	241 Ralph McGill Blvd NE Bin 10160 Atlanta, Georgia 30308
Contact:	Kristen Jurinko
Project:	Kraft - Grumman Road Landfill CCR Groundwater Compliance

Client Sample ID:	KRA-GRL-FB-03	Project:	GPCC00102
Sample ID:	682330020	Client ID:	GPCC001

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method

The following Analytical Methods were performed:

Method	Description	Analyst Comments
1	EPA 300.0	
2	SW846 7470A	
3	SW846 3005A/6020B	
4	SW846 3005A/6020B	
5	SM 2540C	

Notes:

Column headers are defined as follows:

DF: Dilution Factor
DL: Detection Limit
MDA: Minimum Detectable Activity
MDC: Minimum Detectable Concentration
Lc/LC: Critical Level
PF: Prep Factor
RL: Reporting Limit
SQL: Sample Quantitation Limit

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Certificate of Analysis

Report Date: October 3, 2024

Company : Georgia Power Company
Address : 241 Ralph McGill Blvd NE
Bin 10160
Atlanta, Georgia 30308
Contact: Kristen Jurinko
Project: Kraft - Grumman Road Landfill CCR Groundwater Compliance

Client Sample ID: KRA-GRL-EB-06
Sample ID: 682330021
Matrix: WQ
Collect Date: 21-AUG-24 18:30
Receive Date: 22-AUG-24
Collector: Client

Project: GPCC00102
Client ID: GPCC001

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Ion Chromatography												
EPA 300.0 Anions Liquid "As Received"												
Chloride	U	ND	0.0670	0.200	mg/L		1	CH6	08/25/24	0247	2662125	1
Fluoride	U	ND	0.0330	0.100	mg/L		1					
Sulfate	U	ND	0.133	0.400	mg/L		1					
Mercury Analysis-CVAA												
7470 Cold Vapor Mercury, Liquid "As Received"												
Mercury	U	ND	0.0000670	0.000200	mg/L	1.00	1	JP2	08/28/24	1015	2662837	2
Metals Analysis-ICP-MS												
SW846 3005A/6020B "As Received"												
Boron	U	ND	0.00520	0.0150	mg/L	1.00	1	BAJ	09/04/24	1202	2661585	3
Antimony	U	ND	0.00100	0.00300	mg/L	1.00	1	BAJ	09/03/24	1616	2661585	4
Arsenic	U	ND	0.00200	0.00500	mg/L	1.00	1					
Barium	U	ND	0.000670	0.00400	mg/L	1.00	1					
Beryllium	U	ND	0.000200	0.000500	mg/L	1.00	1					
Cadmium	U	ND	0.000300	0.00100	mg/L	1.00	1					
Calcium	U	ND	0.0800	0.200	mg/L	1.00	1					
Chromium	U	ND	0.00300	0.0100	mg/L	1.00	1					
Cobalt	U	ND	0.000300	0.00100	mg/L	1.00	1					
Lead	U	ND	0.000500	0.00200	mg/L	1.00	1					
Lithium	U	ND	0.00300	0.0100	mg/L	1.00	1					
Molybdenum	U	ND	0.000200	0.00100	mg/L	1.00	1					
Selenium	U	ND	0.00150	0.00500	mg/L	1.00	1					
Thallium	U	ND	0.000600	0.00200	mg/L	1.00	1					
Vanadium	U	ND	0.00330	0.0200	mg/L	1.00	1					
Zinc	U	ND	0.00330	0.0200	mg/L	1.00	1					
Solids Analysis												
SM2540C Dissolved Solids "As Received"												
Total Dissolved Solids	J	6.00	2.38	10.0	mg/L			KLP1	08/28/24	1517	2663923	5

The following Prep Methods were performed:

Method	Description	Analyst	Date	Time	Prep Batch
SW846 7470A Prep	EPA 7470A Mercury Prep Liquid	JM13	08/27/24	1105	2662836
SW846 3005A	ICP-MS 3005A PREP	AB5	08/27/24	0805	2661584

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Certificate of Analysis

Report Date: October 3, 2024

Company :	Georgia Power Company
Address :	241 Ralph McGill Blvd NE Bin 10160 Atlanta, Georgia 30308
Contact:	Kristen Jurinko
Project:	Kraft - Grumman Road Landfill CCR Groundwater Compliance

Client Sample ID:	KRA-GRL-EB-06	Project:	GPCC00102
Sample ID:	682330021	Client ID:	GPCC001

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method

The following Analytical Methods were performed:

Method	Description	Analyst Comments
1	EPA 300.0	
2	SW846 7470A	
3	SW846 3005A/6020B	
4	SW846 3005A/6020B	
5	SM 2540C	

Notes:

Column headers are defined as follows:

DF: Dilution Factor
DL: Detection Limit
MDA: Minimum Detectable Activity
MDC: Minimum Detectable Concentration
Lc/LC: Critical Level
PF: Prep Factor
RL: Reporting Limit
SQL: Sample Quantitation Limit

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Certificate of Analysis

Report Date: October 3, 2024

Company : Georgia Power Company
Address : 241 Ralph McGill Blvd NE
Bin 10160
Atlanta, Georgia 30308
Contact: Kristen Jurinko
Project: Kraft - Grumman Road Landfill CCR Groundwater Compliance

Client Sample ID: KRA-GWC-21
Sample ID: 682330022
Matrix: WG
Collect Date: 22-AUG-24 10:31
Receive Date: 22-AUG-24
Collector: Client

Project: GPCC00102
Client ID: GPCC001

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Ion Chromatography												
EPA 300.0 Anions Liquid "As Received"												
Chloride		15.8	1.34	4.00	mg/L		20	CH6	08/26/24	2118	2662125	1
Sulfate		291	2.66	8.00	mg/L		20					
Fluoride	U	ND	0.0330	0.100	mg/L		1	CH6	08/25/24	0318	2662125	2
Mercury Analysis-CVAA												
7470 Cold Vapor Mercury, Liquid "As Received"												
Mercury	U	ND	0.0000670	0.000200	mg/L	1.00	1	JP2	08/28/24	1017	2662837	3
Metals Analysis-ICP-MS												
SW846 3005A/6020B "As Received"												
Calcium		85.0	0.400	1.00	mg/L	1.00	5	BAJ	09/03/24	1736	2661585	4
Boron		2.98	0.260	0.750	mg/L	1.00	50	BAJ	09/04/24	1225	2661585	5
Antimony	U	ND	0.00100	0.00300	mg/L	1.00	1	BAJ	09/03/24	1733	2661585	6
Arsenic		0.00929	0.00200	0.00500	mg/L	1.00	1					
Barium		0.291	0.000670	0.00400	mg/L	1.00	1					
Beryllium	U	ND	0.000200	0.000500	mg/L	1.00	1					
Cadmium	U	ND	0.000300	0.00100	mg/L	1.00	1					
Chromium	U	ND	0.00300	0.0100	mg/L	1.00	1					
Cobalt	U	ND	0.000300	0.00100	mg/L	1.00	1					
Lead	U	ND	0.000500	0.00200	mg/L	1.00	1					
Lithium	U	ND	0.00300	0.0100	mg/L	1.00	1					
Molybdenum		0.0159	0.000200	0.00100	mg/L	1.00	1					
Selenium		0.00594	0.00150	0.00500	mg/L	1.00	1					
Thallium	U	ND	0.000600	0.00200	mg/L	1.00	1					
Vanadium	J	0.00457	0.00330	0.0200	mg/L	1.00	1					
Zinc	U	ND	0.00330	0.0200	mg/L	1.00	1					
Solids Analysis												
SM2540C Dissolved Solids "As Received"												
Total Dissolved Solids		517	2.38	10.0	mg/L			KLP1	08/29/24	1041	2664569	7

The following Prep Methods were performed:

Method	Description	Analyst	Date	Time	Prep Batch
SW846 3005A	ICP-MS 3005A PREP	AB5	08/27/24	0805	2661584
SW846 7470A Prep	EPA 7470A Mercury Prep Liquid	JM13	08/27/24	1105	2662836

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Certificate of Analysis

Report Date: October 3, 2024

Company :	Georgia Power Company
Address :	241 Ralph McGill Blvd NE Bin 10160 Atlanta, Georgia 30308
Contact:	Kristen Jurinko
Project:	Kraft - Grumman Road Landfill CCR Groundwater Compliance

Client Sample ID:	KRA-GWC-21	Project:	GPCC00102
Sample ID:	682330022	Client ID:	GPCC001

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method

The following Analytical Methods were performed:

Method	Description	Analyst Comments
1	EPA 300.0	
2	EPA 300.0	
3	SW846 7470A	
4	SW846 3005A/6020B	
5	SW846 3005A/6020B	
6	SW846 3005A/6020B	
7	SM 2540C	

Notes:

Column headers are defined as follows:

DF: Dilution Factor	Lc/LC: Critical Level
DL: Detection Limit	PF: Prep Factor
MDA: Minimum Detectable Activity	RL: Reporting Limit
MDC: Minimum Detectable Concentration	SQL: Sample Quantitation Limit

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Certificate of Analysis

Report Date: October 3, 2024

Company :	Georgia Power Company
Address :	241 Ralph McGill Blvd NE Bin 10160 Atlanta, Georgia 30308
Contact:	Kristen Jurinko
Project:	Kraft - Grumman Road Landfill CCR Groundwater Compliance

Client Sample ID:	KRA-GRL-FD-01	Project:	GPCC00102
Sample ID:	682330023	Client ID:	GPCC001
Matrix:	WG		
Collect Date:	22-AUG-24 12:00		
Receive Date:	22-AUG-24		
Collector:	Client		

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Ion Chromatography												
EPA 300.0 Anions Liquid "As Received"												
Chloride		16.1	1.34	4.00	mg/L		20	CH6	08/26/24	2149	2662125	1
Sulfate		292	2.66	8.00	mg/L		20					
Fluoride	U	ND	0.0330	0.100	mg/L		1	CH6	08/25/24	0348	2662125	2
Mercury Analysis-CVAA												
7470 Cold Vapor Mercury, Liquid "As Received"												
Mercury	U	ND	0.0000670	0.000200	mg/L	1.00	1	JP2	08/28/24	1018	2662837	3
Metals Analysis-ICP-MS												
SW846 3005A/6020B "As Received"												
Boron		3.07	0.260	0.750	mg/L	1.00	50	BAJ	09/04/24	1226	2661585	4
Calcium		84.1	0.400	1.00	mg/L	1.00	5	BAJ	09/03/24	1741	2661585	5
Antimony	U	ND	0.00100	0.00300	mg/L	1.00	1	BAJ	09/03/24	1738	2661585	6
Arsenic		0.00908	0.00200	0.00500	mg/L	1.00	1					
Barium		0.279	0.000670	0.00400	mg/L	1.00	1					
Beryllium	U	ND	0.000200	0.000500	mg/L	1.00	1					
Cadmium	U	ND	0.000300	0.00100	mg/L	1.00	1					
Chromium	U	ND	0.00300	0.0100	mg/L	1.00	1					
Cobalt	U	ND	0.000300	0.00100	mg/L	1.00	1					
Lead	U	ND	0.000500	0.00200	mg/L	1.00	1					
Lithium	U	ND	0.00300	0.0100	mg/L	1.00	1					
Molybdenum		0.0151	0.000200	0.00100	mg/L	1.00	1					
Selenium		0.00583	0.00150	0.00500	mg/L	1.00	1					
Thallium	U	ND	0.000600	0.00200	mg/L	1.00	1					
Vanadium	J	0.00457	0.00330	0.0200	mg/L	1.00	1					
Zinc	U	ND	0.00330	0.0200	mg/L	1.00	1					
Solids Analysis												
SM2540C Dissolved Solids "As Received"												
Total Dissolved Solids		534	2.38	10.0	mg/L			KLP1	08/29/24	1041	2664569	7

The following Prep Methods were performed:

Method	Description	Analyst	Date	Time	Prep Batch
SW846 7470A Prep	EPA 7470A Mercury Prep Liquid	JM13	08/27/24	1105	2662836
SW846 3005A	ICP-MS 3005A PREP	AB5	08/27/24	0805	2661584

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Certificate of Analysis

Report Date: October 3, 2024

Company :	Georgia Power Company
Address :	241 Ralph McGill Blvd NE Bin 10160 Atlanta, Georgia 30308
Contact:	Kristen Jurinko
Project:	Kraft - Grumman Road Landfill CCR Groundwater Compliance

Client Sample ID:	KRA-GRL-FD-01	Project:	GPCC00102
Sample ID:	682330023	Client ID:	GPCC001

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method

The following Analytical Methods were performed:

Method	Description	Analyst Comments
1	EPA 300.0	
2	EPA 300.0	
3	SW846 7470A	
4	SW846 3005A/6020B	
5	SW846 3005A/6020B	
6	SW846 3005A/6020B	
7	SM 2540C	

Notes:

Column headers are defined as follows:

DF: Dilution Factor	Lc/LC: Critical Level
DL: Detection Limit	PF: Prep Factor
MDA: Minimum Detectable Activity	RL: Reporting Limit
MDC: Minimum Detectable Concentration	SQL: Sample Quantitation Limit

QC Summary

Report Date: October 3, 2024

Georgia Power Company
241 Ralph McGill Blvd NE
Bin 10160
Atlanta, Georgia

Contact: **Kristen Jurinko**

Workorder: **682330**

Parmname	NOM		Sample	Qual	QC	Units	RPD%		REC%	Range	Anlst	Date	Time
Ion Chromatography													
Batch 2662125													
QC1205833347 682055001 DUP													
Chloride			86.5		86.9	mg/L	0.448			(0%-20%)	CH6	08/26/24	11:32
Fluoride		J	0.0610	J	0.0568	mg/L	7.13	^		(+/-0.100)		08/24/24	14:26
Sulfate			2.76		2.72	mg/L	1.47			(0%-20%)			
QC1205833349 682055003 DUP													
Chloride			53.0		53.0	mg/L	0.0566	^		(+/-20.0)		08/24/24	15:59
Fluoride		J	0.0768	J	0.0649	mg/L	16.8	^		(+/-0.100)		08/26/24	13:05
Sulfate			734		737	mg/L	0.362			(0%-20%)		08/24/24	15:59
QC1205833346 LCS													
Chloride	5.00				4.73	mg/L			94.5	(90%-110%)		08/24/24	13:24
Fluoride	2.50				2.42	mg/L			96.7	(90%-110%)			
Sulfate	10.0				9.55	mg/L			95.5	(90%-110%)			
QC1205833345 MB													
Chloride				U	ND	mg/L						08/24/24	12:54
Fluoride				U	ND	mg/L							
Sulfate				U	ND	mg/L							

QC Summary

Workorder: **682330**

Parmname	NOM		Sample	Qual	QC	Units	RPD%	REC%	Range	Anlst	Date Time
Ion Chromatography											
Batch 2662125											
QC1205833348 682055001 PS											
Chloride	5.00		4.32		9.65	mg/L		106	(90%-110%)	CH6	08/26/24 12:03
Fluoride	2.50	J	0.0610		2.45	mg/L		95.6	(90%-110%)		08/24/24 14:57
Sulfate	10.0		2.76		12.5	mg/L		97.5	(90%-110%)		
QC1205833350 682055003 PS											
Chloride	5.00		0.530		5.20	mg/L		93.3	(90%-110%)		08/24/24 16:29
Fluoride	2.50	J	0.0768		2.67	mg/L		104	(90%-110%)		08/26/24 13:36
Sulfate	10.0		7.34		17.2	mg/L		99.1	(90%-110%)		08/24/24 16:29
Batch 2662326											
QC1205833880 682330001 DUP											
Chloride			24.0		24.2	mg/L	0.691		(0%-20%)	CWW	08/26/24 12:53
Fluoride			0.134		0.132	mg/L	1.8	^	(+/-0.100)		08/24/24 22:12
Sulfate			24.1		24.2	mg/L	0.224		(0%-20%)		08/26/24 12:53
QC1205833882 682330012 DUP											
Chloride			34.8		34.9	mg/L	0.251		(0%-20%)		08/26/24 19:47
Fluoride		U	ND	U	ND	mg/L	N/A				08/25/24 07:45
Sulfate			1370		1320	mg/L	3.67		(0%-20%)		08/26/24 21:22
QC1205833879 LCS											
Chloride	5.00				5.17	mg/L		103	(90%-110%)		08/24/24 21:08

QC Summary

Workorder: **682330**

Parmname	NOM	Sample	Qual	QC	Units	RPD%	REC%	Range	Anlst	Date Time
Ion Chromatography										
Batch 2662326										
Fluoride	2.50			2.57	mg/L		103	(90%-110%)	CWW	08/24/24 21:08
Sulfate	10.0			10.4	mg/L		104	(90%-110%)		
QC1205833878 MB										
Chloride			U	ND	mg/L					08/24/24 20:36
Fluoride			U	ND	mg/L					
Sulfate			U	ND	mg/L					
QC1205833881 682330001 PS										
Chloride	5.00	4.81		10.3	mg/L		111*	(90%-110%)		08/26/24 13:25
Fluoride	2.50	0.134		3.06	mg/L		117*	(90%-110%)		08/24/24 22:43
Sulfate	10.0	4.82		14.5	mg/L		96.5	(90%-110%)		08/26/24 13:25
QC1205833883 682330012 PS										
Chloride	5.00	6.96		12.7	mg/L		114*	(90%-110%)		08/26/24 20:19
Fluoride	2.50 U	ND		2.58	mg/L		103	(90%-110%)		08/25/24 08:16
Sulfate	10.0	6.87		17.2	mg/L		103	(90%-110%)		08/26/24 21:54
Metals Analysis - ICPMS										
Batch 2661583										
QC1205831991 LCS										
Antimony	0.0500			0.0498	mg/L		99.6	(80%-120%)	BAJ	09/03/24 17:53
Arsenic	0.0500			0.0487	mg/L		97.4	(80%-120%)		

QC Summary

Workorder: **682330**

Parmname	NOM	Sample	Qual	QC	Units	RPD%	REC%	Range	Anlst	Date Time
Metals Analysis - ICPMS										
Batch 2661583										
Barium	0.0500			0.0483	mg/L		96.6	(80%-120%)	BAJ	09/03/24 17:53
Beryllium	0.0500			0.0554	mg/L		111	(80%-120%)		
Boron	0.100			0.114	mg/L		114	(80%-120%)		09/04/24 13:48
Cadmium	0.0500			0.0500	mg/L		99.9	(80%-120%)		09/03/24 17:53
Calcium	2.00			2.11	mg/L		105	(80%-120%)		
Chromium	0.0500			0.0492	mg/L		98.4	(80%-120%)		
Cobalt	0.0500			0.0494	mg/L		98.8	(80%-120%)		
Lead	0.0500			0.0490	mg/L		98.1	(80%-120%)		
Lithium	0.0500			0.0532	mg/L		106	(80%-120%)		
Molybdenum	0.0500			0.0505	mg/L		101	(80%-120%)		
Selenium	0.0500			0.0495	mg/L		98.9	(80%-120%)		
Thallium	0.0500			0.0465	mg/L		93	(80%-120%)		
Vanadium	0.0500			0.0499	mg/L		99.8	(80%-120%)		
Zinc	0.0500			0.0490	mg/L		98	(80%-120%)		

QC Summary

Workorder: **682330**

Parmname	NOM	Sample	Qual	QC	Units	RPD%	REC%	Range	Anlst	Date Time
Metals Analysis - ICPMS										
Batch 2661583										
QC1205831990 MB										
Antimony			U	ND	mg/L				BAJ	09/03/24 17:50
Arsenic			U	ND	mg/L					
Barium			U	ND	mg/L					
Beryllium			U	ND	mg/L					
Boron			U	ND	mg/L					09/04/24 13:47
Cadmium			U	ND	mg/L					09/03/24 17:50
Calcium			U	ND	mg/L					
Chromium			U	ND	mg/L					
Cobalt			U	ND	mg/L					
Lead			U	ND	mg/L					
Lithium			U	ND	mg/L					
Molybdenum			U	ND	mg/L					
Selenium			U	ND	mg/L					
Thallium			U	ND	mg/L					

QC Summary

Workorder: **682330**

Parmname	NOM		Sample	Qual	QC	Units	RPD%	REC%	Range	Anlst	Date Time
Metals Analysis - ICPMS											
Batch 2661583											
Vanadium				U	ND	mg/L				BAJ	09/03/24 17:50
Zinc				U	ND	mg/L					
QC1205831992 682330001 MS											
Antimony	0.0500	U	ND		0.0499	mg/L		99.8	(75%-125%)		09/03/24 18:07
Arsenic	0.0500	U	ND		0.0509	mg/L		100	(75%-125%)		
Barium	0.0500		0.149		0.200	mg/L		103	(75%-125%)		
Beryllium	0.0500	J	0.000210		0.0570	mg/L		114	(75%-125%)		
Boron	0.100		0.0193		0.133	mg/L		114	(75%-125%)		09/04/24 13:52
Cadmium	0.0500	U	ND		0.0513	mg/L		103	(75%-125%)		09/03/24 18:07
Calcium	2.00		4.68		6.89	mg/L		111	(75%-125%)		
Chromium	0.0500	U	ND		0.0515	mg/L		101	(75%-125%)		
Cobalt	0.0500	J	0.000960		0.0524	mg/L		103	(75%-125%)		
Lead	0.0500	U	ND		0.0489	mg/L		97.6	(75%-125%)		
Lithium	0.0500	U	ND		0.0584	mg/L		112	(75%-125%)		
Molybdenum	0.0500	U	ND		0.0519	mg/L		104	(75%-125%)		

QC Summary

Workorder: **682330**

Parmname	NOM		Sample	Qual	QC	Units	RPD%	REC%	Range	Anlst	Date Time
Metals Analysis - ICPMS											
Batch 2661583											
Selenium	0.0500	U	ND		0.0469	mg/L		93.3	(75%-125%)	BAJ	09/03/24 18:07
Thallium	0.0500	U	ND		0.0471	mg/L		94.2	(75%-125%)		
Vanadium	0.0500	U	ND		0.0526	mg/L		103	(75%-125%)		
Zinc	0.0500	J	0.0137		0.0642	mg/L		101	(75%-125%)		
QC1205831993 682330001 MSD											
Antimony	0.0500	U	ND		0.0512	mg/L	2.56	102	(0%-20%)		09/03/24 18:09
Arsenic	0.0500	U	ND		0.0510	mg/L	0.104	100	(0%-20%)		
Barium	0.0500		0.149		0.200	mg/L	0.0765	102	(0%-20%)		
Beryllium	0.0500	J	0.000210		0.0566	mg/L	0.782	113	(0%-20%)		
Boron	0.100		0.0193		0.134	mg/L	0.783	115	(0%-20%)		09/04/24 13:53
Cadmium	0.0500	U	ND		0.0502	mg/L	2.14	100	(0%-20%)		09/03/24 18:09
Calcium	2.00		4.68		6.82	mg/L	1.02	107	(0%-20%)		
Chromium	0.0500	U	ND		0.0519	mg/L	0.71	101	(0%-20%)		
Cobalt	0.0500	J	0.000960		0.0510	mg/L	2.59	100	(0%-20%)		
Lead	0.0500	U	ND		0.0492	mg/L	0.799	98.4	(0%-20%)		

QC Summary

Workorder: **682330**

Parmname	NOM		Sample	Qual	QC	Units	RPD%	REC%	Range	Anlst	Date	Time
Metals Analysis - ICPMS												
Batch 2661583												
Lithium	0.0500	U	ND		0.0573	mg/L	1.88	110	(0%-20%)	BAJ	09/03/24	18:09
Molybdenum	0.0500	U	ND		0.0513	mg/L	1.2	103	(0%-20%)			
Selenium	0.0500	U	ND		0.0467	mg/L	0.429	92.9	(0%-20%)			
Thallium	0.0500	U	ND		0.0476	mg/L	1.07	95.2	(0%-20%)			
Vanadium	0.0500	U	ND		0.0515	mg/L	2.28	101	(0%-20%)			
Zinc	0.0500	J	0.0137		0.0632	mg/L	1.52	99	(0%-20%)			
QC1205831994 682330001 SDILT												
Antimony		U	ND	U	ND	ug/L	N/A		(0%-20%)		09/03/24	18:15
Arsenic		U	ND	U	ND	ug/L	N/A		(0%-20%)			
Barium			149		30.8	ug/L	3.64		(0%-20%)			
Beryllium		J	0.210	U	ND	ug/L	N/A		(0%-20%)			
Boron			19.3	J	6.55	ug/L	69.3		(0%-20%)		09/04/24	13:55
Cadmium		U	ND	U	ND	ug/L	N/A		(0%-20%)		09/03/24	18:15
Calcium			4680		972	ug/L	3.86		(0%-20%)			
Chromium		U	ND	U	ND	ug/L	N/A		(0%-20%)			

QC Summary

Workorder: **682330**

Parmname	NOM	Sample	Qual	QC	Units	RPD%	REC%	Range	Anlst	Date Time
Metals Analysis - ICPMS										
Batch 2661583										
Cobalt	J	0.960	U	ND	ug/L	N/A		(0%-20%)	BAJ	09/03/24 18:15
Lead	U	ND	U	ND	ug/L	N/A		(0%-20%)		
Lithium	U	ND	U	ND	ug/L	N/A		(0%-20%)		
Molybdenum	U	ND	U	ND	ug/L	N/A		(0%-20%)		
Selenium	U	ND	U	ND	ug/L	N/A		(0%-20%)		
Thallium	U	ND	U	ND	ug/L	N/A		(0%-20%)		
Vanadium	U	ND	U	ND	ug/L	N/A		(0%-20%)		
Zinc	J	13.7	J	3.60	ug/L	31.1		(0%-20%)		
Batch 2661585										
QC1205831996 LCS										
Antimony	0.0500			0.0498	mg/L		99.5	(80%-120%)	BAJ	09/03/24 16:07
Arsenic	0.0500			0.0505	mg/L		101	(80%-120%)		
Barium	0.0500			0.0490	mg/L		98.1	(80%-120%)		
Beryllium	0.0500			0.0591	mg/L		118	(80%-120%)		
Boron	0.100			0.107	mg/L		107	(80%-120%)		09/04/24 11:59
Cadmium	0.0500			0.0497	mg/L		99.5	(80%-120%)		09/03/24 16:07

QC Summary

Workorder: **682330**

Parmname	NOM	Sample	Qual	QC	Units	RPD%	REC%	Range	Anlst	Date Time
Metals Analysis - ICPMS										
Batch 2661585										
Calcium	2.00			2.03	mg/L		102	(80%-120%)	BAJ	09/03/24 16:07
Chromium	0.0500			0.0495	mg/L		99	(80%-120%)		
Cobalt	0.0500			0.0493	mg/L		98.5	(80%-120%)		
Lead	0.0500			0.0514	mg/L		103	(80%-120%)		
Lithium	0.0500			0.0561	mg/L		112	(80%-120%)		
Molybdenum	0.0500			0.0494	mg/L		98.7	(80%-120%)		
Selenium	0.0500			0.0499	mg/L		99.7	(80%-120%)		
Thallium	0.0500			0.0482	mg/L		96.3	(80%-120%)		
Vanadium	0.0500			0.0520	mg/L		104	(80%-120%)		
Zinc	0.0500			0.0490	mg/L		98	(80%-120%)		
QC1205831995 MB										
Antimony			U	ND	mg/L					09/03/24 16:05
Arsenic			U	ND	mg/L					
Barium			U	ND	mg/L					
Beryllium			U	ND	mg/L					

QC Summary

Workorder: **682330**

Parmname	NOM	Sample	Qual	QC	Units	RPD%	REC%	Range	Anlst	Date Time
Metals Analysis - ICPMS										
Batch 2661585										
Boron			U	ND	mg/L				BAJ	09/04/24 11:58
Cadmium			U	ND	mg/L					09/03/24 16:05
Calcium			U	ND	mg/L					
Chromium			U	ND	mg/L					
Cobalt			U	ND	mg/L					
Lead			U	ND	mg/L					
Lithium			U	ND	mg/L					
Molybdenum			U	ND	mg/L					
Selenium			U	ND	mg/L					
Thallium			U	ND	mg/L					
Vanadium			U	ND	mg/L					
Zinc			U	ND	mg/L					
QC1205831997 682330013 MS										
Antimony	0.0500	U	ND	0.0512	mg/L		101	(75%-125%)		09/03/24 16:27
Arsenic	0.0500	U	ND	0.0537	mg/L		104	(75%-125%)		

QC Summary

Workorder: **682330**

Parmname	NOM		Sample	Qual	QC	Units	RPD%	REC%	Range	Anlst	Date Time
Metals Analysis - ICPMS											
Batch 2661585											
Barium	0.0500		0.0254		0.0712	mg/L		91.4	(75%-125%)	BAJ	09/03/24 16:27
Beryllium	0.0500		0.00186		0.0559	mg/L		108	(75%-125%)		
Boron	0.100		1.66		1.80	mg/L		N/A	(75%-125%)		09/04/24 12:20
Cadmium	0.0500	U	ND		0.0477	mg/L		95.3	(75%-125%)		09/03/24 16:27
Calcium	2.00		78.9		79.6	mg/L		N/A	(75%-125%)		09/03/24 16:41
Chromium	0.0500	U	ND		0.0491	mg/L		96.9	(75%-125%)		09/03/24 16:27
Cobalt	0.0500		0.00256		0.0494	mg/L		93.7	(75%-125%)		
Lead	0.0500	U	ND		0.0450	mg/L		89.9	(75%-125%)		
Lithium	0.0500	J	0.00567		0.0603	mg/L		109	(75%-125%)		
Molybdenum	0.0500		0.00354		0.0566	mg/L		106	(75%-125%)		
Selenium	0.0500	U	ND		0.0518	mg/L		102	(75%-125%)		
Thallium	0.0500	U	ND		0.0437	mg/L		87.3	(75%-125%)		
Vanadium	0.0500	U	ND		0.0538	mg/L		101	(75%-125%)		
Zinc	0.0500	J	0.00660		0.0534	mg/L		93.6	(75%-125%)		

QC Summary

Workorder: **682330**

Parmname	NOM		Sample	Qual	QC	Units	RPD%	REC%	Range	Anlst	Date Time
Metals Analysis - ICPMS											
Batch 2661585											
QC1205831998 682330013 MSD											
Antimony	0.0500	U	ND		0.0525	mg/L	2.53	104	(0%-20%)	BAJ	09/03/24 16:30
Arsenic	0.0500	U	ND		0.0548	mg/L	2.03	106	(0%-20%)		
Barium	0.0500		0.0254		0.0731	mg/L	2.69	95.3	(0%-20%)		
Beryllium	0.0500		0.00186		0.0567	mg/L	1.32	110	(0%-20%)		
Boron	0.100		1.66		1.77	mg/L	2.09	N/A	(0%-20%)		09/04/24 12:21
Cadmium	0.0500	U	ND		0.0493	mg/L	3.4	98.6	(0%-20%)		09/03/24 16:30
Calcium	2.00		78.9		75.9	mg/L	4.8	N/A	(0%-20%)		09/03/24 16:44
Chromium	0.0500	U	ND		0.0499	mg/L	1.66	98.5	(0%-20%)		09/03/24 16:30
Cobalt	0.0500		0.00256		0.0509	mg/L	2.99	96.7	(0%-20%)		
Lead	0.0500	U	ND		0.0456	mg/L	1.31	91.1	(0%-20%)		
Lithium	0.0500	J	0.00567		0.0609	mg/L	0.914	110	(0%-20%)		
Molybdenum	0.0500		0.00354		0.0588	mg/L	3.82	111	(0%-20%)		
Selenium	0.0500	U	ND		0.0523	mg/L	1.03	103	(0%-20%)		
Thallium	0.0500	U	ND		0.0442	mg/L	1.04	88.3	(0%-20%)		

QC Summary

Workorder: **682330**

Parmname	NOM		Sample	Qual	QC	Units	RPD%	REC%	Range	Anlst	Date Time
Metals Analysis - ICPMS											
Batch 2661585											
Vanadium	0.0500	U	ND		0.0548	mg/L	1.97	103	(0%-20%)	BAJ	09/03/24 16:30
Zinc	0.0500	J	0.00660		0.0546	mg/L	2.12	95.9	(0%-20%)		
QC1205831999 682330013 SDILT											
Antimony		U	ND	U	ND	ug/L	N/A		(0%-20%)		09/03/24 16:36
Arsenic		U	ND	U	ND	ug/L	N/A		(0%-20%)		
Barium			25.4		5.49	ug/L	7.93		(0%-20%)		
Beryllium			1.86	J	0.394	ug/L	5.69		(0%-20%)		
Boron			166		39.8	ug/L	19.8		(0%-20%)		09/04/24 12:23
Cadmium		U	ND	U	ND	ug/L	N/A		(0%-20%)		09/03/24 16:36
Calcium			15800		3330	ug/L	5.59		(0%-20%)		09/03/24 16:50
Chromium		U	ND	U	ND	ug/L	N/A		(0%-20%)		09/03/24 16:36
Cobalt			2.56	J	0.561	ug/L	9.78		(0%-20%)		
Lead		U	ND	U	ND	ug/L	N/A		(0%-20%)		
Lithium		J	5.67	U	ND	ug/L	N/A		(0%-20%)		
Molybdenum			3.54	J	0.753	ug/L	6.39		(0%-20%)		

QC Summary

Workorder: **682330**

Parmname	NOM	Sample	Qual	QC	Units	RPD%	REC%	Range	Anlst	Date Time
Metals Analysis - ICPMS										
Batch 2661585										
Selenium	U	ND	U	ND	ug/L	N/A		(0%-20%)	BAJ	09/03/24 16:36
Thallium	U	ND	U	ND	ug/L	N/A		(0%-20%)		
Vanadium	U	ND	U	ND	ug/L	N/A		(0%-20%)		
Zinc	J	6.60	U	ND	ug/L	N/A		(0%-20%)		
Metals Analysis-Mercury										
Batch 2662060										
QC1205833119 682224001 DUP										
Mercury	U	ND	U	ND	mg/L	N/A			JP2	08/27/24 11:41
QC1205833115 LCS										
Mercury	0.00200			0.00196	mg/L		97.9	(80%-120%)		08/27/24 11:05
QC1205833114 MB										
Mercury			U	ND	mg/L					08/27/24 11:03
QC1205833120 682224001 MS										
Mercury	0.00200	U	ND	0.00192	mg/L		96.2	(75%-125%)		08/27/24 11:43
QC1205833121 682224001 SDILT										
Mercury	U	ND	U	ND	ug/L	N/A		(0%-10%)		08/27/24 11:44
Batch 2662837										
QC1205835075 682577004 DUP										
Mercury	U	ND	U	ND	mg/L	N/A			JP2	08/28/24 10:27
QC1205835074 LCS										
Mercury	0.00200			0.00210	mg/L		105	(80%-120%)		08/28/24 09:47

QC Summary

Workorder: **682330**

Parmname	NOM	Sample	Qual	QC	Units	RPD%	REC%	Range	Anlst	Date Time
Metals Analysis-Mercury										
Batch 2662837										
QC1205835073 MB										
Mercury			U	ND	mg/L				JP2	08/28/24 09:46
QC1205835076 682577004 MS										
Mercury	0.00200	U ND		0.00201	mg/L		100	(75%-125%)		08/28/24 10:29
QC1205835077 682577004 SDILT										
Mercury		U ND	U	ND	ug/L	N/A		(0%-10%)		08/28/24 10:30
Solids Analysis										
Batch 2663921										
QC1205837525 682330010 DUP										
Total Dissolved Solids		239		237	mg/L	0.84		(0%-5%)	KLP1	08/28/24 13:38
QC1205837524 LCS										
Total Dissolved Solids	300			293	mg/L		97.7	(95%-105%)		08/28/24 13:38
QC1205837523 MB										
Total Dissolved Solids			U	ND	mg/L					08/28/24 13:38
Batch 2663923										
QC1205837529 682145009 DUP										
Total Dissolved Solids		236		230	mg/L	2.58		(0%-5%)	KLP1	08/28/24 15:17
QC1205837528 LCS										
Total Dissolved Solids	300			306	mg/L		102	(95%-105%)		08/28/24 15:17
QC1205837527 MB										
Total Dissolved Solids			U	ND	mg/L					08/28/24 15:17
Batch 2664569										
QC1205838906 682409004 DUP										
Total Dissolved Solids		409		413	mg/L	0.973		(0%-5%)	KLP1	08/29/24 10:41

QC Summary

Workorder: **682330**

Parmname	NOM	Sample	Qual	QC	Units	RPD%	REC%	Range	Anlst	Date	Time
Solids Analysis											
Batch 2664569											
QC1205838904 LCS											
Total Dissolved Solids	300			294	mg/L		98	(95%-105%)	KLP1	08/29/24	10:41
QC1205838903 MB											
Total Dissolved Solids			J	4.00	mg/L					08/29/24	10:41

Notes:

The Qualifiers in this report are defined as follows:

U	Analyte was analyzed for, but not detected above the MDL, MDA, MDC or LOD.
J	Value is estimated
X	Consult Case Narrative, Data Summary package, or Project Manager concerning this qualifier
N	Metals--The Matrix spike sample recovery is not within specified control limits
H	Analytical holding time was exceeded
<	Result is less than value reported
>	Result is greater than value reported
h	Preparation or preservation holding time was exceeded
R	Sample results are rejected
Z	Paint Filter Test--Particulates passed through the filter, however no free liquids were observed.
d	5-day BOD--The 2:1 depletion requirement was not met for this sample
^	RPD of sample and duplicate evaluated using +/-RL. Concentrations are <5X the RL. Qualifier Not Applicable for Radiochemistry.
N/A	RPD or %Recovery limits do not apply.
ND	Analyte concentration is not detected above the detection limit
E	%difference of sample and SD is >10%. Sample concentration must meet flagging criteria
NJ	Consult Case Narrative, Data Summary package, or Project Manager concerning this qualifier
E	General Chemistry--Concentration of the target analyte exceeds the instrument calibration range
Q	One or more quality control criteria have not been met. Refer to the applicable narrative or DER.
FB	Mercury was found present at quantifiable concentrations in field blanks received with these samples. Data associated with the blank are deemed invalid for reporting to regulatory agencies
N1	See case narrative
Y	Other specific qualifiers were required to properly define the results. Consult case narrative.
R	Per section 9.3.4.1 of Method 1664 Revision B, due to matrix spike recovery issues, this result may not be reported or used for regulatory compliance purposes.
B	The target analyte was detected in the associated blank.
e	5-day BOD--Test replicates show more than 30% difference between high and low values. The data is qualified per the method and can be used for reporting purposes

QC Summary

Workorder: **682330**

Parmname	NOM	Sample	Qual	QC	Units	RPD%	REC%	Range	Anlst	Date	Time

J See case narrative for an explanation

N/A indicates that spike recovery limits do not apply when sample concentration exceeds spike conc. by a factor of 4 or more or %RPD not applicable.
^ The Relative Percent Difference (RPD) obtained from the sample duplicate (DUP) is evaluated against the acceptance criteria when the sample is greater than five times (5X) the contract required detection limit (RL). In cases where either the sample or duplicate value is less than 5X the RL, a control limit of +/- the RL is used to evaluate the DUP result.
* Indicates that a Quality Control parameter was not within specifications.
For PS, PSD, and SDILT results, the values listed are the measured amounts, not final concentrations.

Where the analytical method has been performed under NELAP certification, the analysis has met all of the requirements of the NELAC standard unless qualified on the QC Summary.

Technical Case Narrative
Georgia Power Company
SDG #: 682330

Metals

Product: **Determination of Metals by ICP-MS**
Analytical Method: SW846 3005A/6020B
Analytical Procedure: GL-MA-E-014 REV# 36
Analytical Batch: 2661583

Preparation Method: SW846 3005A
Preparation Procedure: GL-MA-E-006 REV# 15
Preparation Batch: 2661582

The following samples were analyzed using the above methods and analytical procedure(s).

GEL Sample ID#	Client Sample Identification
682330001	KRA-GWC-9
682330002	KRA-GRL-EB-05
682330003	KRA-GWC-22
682330004	KRA-GWA-8
682330005	KRA-GWB-5R
682330006	KRA-GWC-2
682330007	KRA-GWC-11
682330008	KRA-GWC-12
682330009	KRA-GWC-13
682330010	KRA-GWC-14
682330011	KRA-GWC-15
682330012	KRA-GWC-16
1205831990	Method Blank (MB)**ICP-MS**
1205831991	Laboratory Control Sample (LCS)
1205831994	682330001(KRA-GWC-9L) Serial Dilution (SD)
1205831992	682330001(KRA-GWC-9S) Matrix Spike (MS)
1205831993	682330001(KRA-GWC-9SD) Matrix Spike Duplicate (MSD)

The samples in this SDG were analyzed on an "as received" basis.

Data Summary:

All sample data provided in this report met the acceptance criteria specified in the analytical methods and procedures for initial calibration, continuing calibration, instrument controls and process controls where applicable, with the following exceptions.

Calibration Information

ICSA/ICSAB Statement
For the ICP-MS analysis, the ICSA solution contains analyte concentrations which are verified trace impurities indigenous to the purchased standard.

Technical Information

Sample Dilutions
Dilutions may be required for many reasons, including to minimize matrix interferences or to bring over range target

analyte concentrations into the linear calibration range. Samples 682330004 (KRA-GWA-8), 682330005 (KRA-GWB-5R), 682330007 (KRA-GWC-11), 682330008 (KRA-GWC-12), 682330009 (KRA-GWC-13), 682330011 (KRA-GWC-15) and 682330012 (KRA-GWC-16) were diluted to ensure that the analyte concentrations were within the linear calibration range of the instrument.

Analyte	682330						
	004	**005**	**007**	**008**	**009**	**011**	**012**
Boron	5X	50X	5X	100X	5X	5X	200X
Calcium	1X	1X	5X	5X	1X	5X	10X

Product: **Determination of Metals by ICP-MS**
Analytical Method: SW846 3005A/6020B
Analytical Procedure: GL-MA-E-014 REV# 36
Analytical Batch: 2661585

Preparation Method: SW846 3005A
Preparation Procedure: GL-MA-E-006 REV# 15
Preparation Batch: 2661584

The following samples were analyzed using the above methods and analytical procedure(s).

GEL Sample ID#	Client Sample Identification
682330013	KRA-GWC-17
682330014	KRA-GWC-20
682330015	KRA-MW-23D
682330016	KRA-MW-24D
682330017	KRA-MW-25D
682330018	KRA-GRL-FD-03
682330019	KRA-GRL-FB-02
682330020	KRA-GRL-FB-03
682330021	KRA-GRL-EB-06
682330022	KRA-GWC-21
682330023	KRA-GRL-FD-01
1205831995	Method Blank (MB)**ICP-MS**
1205831996	Laboratory Control Sample (LCS)
1205831999	682330013(KRA-GWC-17L) Serial Dilution (SD)
1205831997	682330013(KRA-GWC-17S) Matrix Spike (MS)
1205831998	682330013(KRA-GWC-17SD) Matrix Spike Duplicate (MSD)

The samples in this SDG were analyzed on an "as received" basis.

Data Summary:

All sample data provided in this report met the acceptance criteria specified in the analytical methods and procedures for initial calibration, continuing calibration, instrument controls and process controls where applicable, with the following exceptions.

Calibration Information

ICSA/ICSAB Statement
For the ICP-MS analysis, the ICSA solution contains analyte concentrations which are verified trace impurities indigenous to the purchased standard.

Technical Information

Sample Dilutions
Dilutions may be required for many reasons, including to minimize matrix interferences or to bring over range target analyte concentrations into the linear calibration range. Samples 682330013 (KRA-GWC-17), 682330014 (KRA-GWC-20), 682330022 (KRA-GWC-21) and 682330023 (KRA-GRL-FD-01) were diluted to ensure that the analyte concentrations were within the linear calibration range of the instrument.

Analyte	682330			
	013	**014**	**022**	**023**
Boron	10X	100X	50X	50X
Calcium	5X	5X	5X	5X

Product: **Mercury Analysis Using the Perkin Elmer Automated Mercury Analyzer**
Analytical Method: SW846 7470A
Analytical Procedure: GL-MA-E-010 REV# 40
Analytical Batch: 2662060

Preparation Method: SW846 7470A Prep
Preparation Procedure: GL-MA-E-010 REV# 40
Preparation Batch: 2662059

The following samples were analyzed using the above methods and analytical procedure(s).

GEL Sample ID#	Client Sample Identification
682330001	KRA-GWC-9
682330002	KRA-GRL-EB-05
682330003	KRA-GWC-22
682330004	KRA-GWA-8
682330005	KRA-GWB-5R
682330006	KRA-GWC-2
1205833114	Method Blank (MB)**CVAA**
1205833115	Laboratory Control Sample (LCS)
1205833121	682224001(NonSDGL) Serial Dilution (SD)
1205833119	682224001(NonSDGD) Sample Duplicate (DUP)
1205833120	682224001(NonSDGS) Matrix Spike (MS)

The samples in this SDG were analyzed on an "as received" basis.

Data Summary:

There are no exceptions, anomalies or deviations from the specified methods. All sample data provided in this report met the acceptance criteria specified in the analytical methods and procedures for initial calibration, continuing calibration, instrument controls and process controls where applicable.

Product: **Mercury Analysis Using the Perkin Elmer Automated Mercury Analyzer**
Analytical Method: SW846 7470A
Analytical Procedure: GL-MA-E-010 REV# 40

Analytical Batch: 2662837

Preparation Method: SW846 7470A Prep
Preparation Procedure: GL-MA-E-010 REV# 40
Preparation Batch: 2662836

The following samples were analyzed using the above methods and analytical procedure(s).

GEL Sample ID#	Client Sample Identification
682330007	KRA-GWC-11
682330008	KRA-GWC-12
682330009	KRA-GWC-13
682330010	KRA-GWC-14
682330011	KRA-GWC-15
682330012	KRA-GWC-16
682330013	KRA-GWC-17
682330014	KRA-GWC-20
682330015	KRA-MW-23D
682330016	KRA-MW-24D
682330017	KRA-MW-25D
682330018	KRA-GRL-FD-03
682330019	KRA-GRL-FB-02
682330020	KRA-GRL-FB-03
682330021	KRA-GRL-EB-06
682330022	KRA-GWC-21
682330023	KRA-GRL-FD-01
1205835073	Method Blank (MB)**CVAA**
1205835074	Laboratory Control Sample (LCS)
1205835077	682577004(NonSDGL) Serial Dilution (SD)
1205835075	682577004(NonSDGD) Sample Duplicate (DUP)
1205835076	682577004(NonSDGS) Matrix Spike (MS)

The samples in this SDG were analyzed on an "as received" basis.

Data Summary:

There are no exceptions, anomalies or deviations from the specified methods. All sample data provided in this report met the acceptance criteria specified in the analytical methods and procedures for initial calibration, continuing calibration, instrument controls and process controls where applicable.

General Chemistry

Product: **Ion Chromatography**
Analytical Method: EPA 300.0
Analytical Procedure: GL-GC-E-086 REV# 35
Analytical Batch: 2662125

The following samples were analyzed using the above methods and analytical procedure(s).

GEL Sample ID#	Client Sample Identification
682330021	KRA-GRL-EB-06
682330022	KRA-GWC-21
682330023	KRA-GRL-FD-01
1205833345	Method Blank (MB)
1205833346	Laboratory Control Sample (LCS)

1205833347	682055001(KRA-GWA-7) Sample Duplicate (DUP)
1205833348	682055001(KRA-GWA-7) Post Spike (PS)
1205833349	682055003(KRA-GWB-6R) Sample Duplicate (DUP)
1205833350	682055003(KRA-GWB-6R) Post Spike (PS)

The samples in this SDG were analyzed on an "as received" basis.

Data Summary:

All sample data provided in this report met the acceptance criteria specified in the analytical methods and procedures for initial calibration, continuing calibration, instrument controls and process controls where applicable, with the following exceptions.

Technical Information

Sample Dilutions
The following samples 1205833347 (KRA-GWA-7DUP), 1205833348 (KRA-GWA-7PS), 682330022 (KRA-GWC-21) and 682330023 (KRA-GRL-FD-01) were diluted because target analyte concentrations exceeded the calibration range. Samples 1205833349 (KRA-GWB-6RDUP) and 1205833350 (KRA-GWB-6RPS) were diluted based on historical data. Dilutions may be required for many reasons, including to minimize matrix interferences or to bring over range target analyte concentrations into the linear calibration range.

Analyte	682330	
	022	023
Chloride	20X	20X
Sulfate	20X	20X

Product: **Ion Chromatography**
Analytical Method: EPA 300.0
Analytical Procedure: GL-GC-E-086 REV# 35
Analytical Batch: 2662326

The following samples were analyzed using the above methods and analytical procedure(s).

GEL Sample ID#	Client Sample Identification
682330001	KRA-GWC-9
682330002	KRA-GRL-EB-05
682330003	KRA-GWC-22
682330004	KRA-GWA-8
682330005	KRA-GWB-5R
682330006	KRA-GWC-2
682330007	KRA-GWC-11
682330008	KRA-GWC-12
682330009	KRA-GWC-13
682330010	KRA-GWC-14
682330011	KRA-GWC-15
682330012	KRA-GWC-16
682330013	KRA-GWC-17
682330014	KRA-GWC-20
682330015	KRA-MW-23D
682330016	KRA-MW-24D
682330017	KRA-MW-25D
682330018	KRA-GRL-FD-03

682330019	KRA-GRL-FB-02
682330020	KRA-GRL-FB-03
1205833878	Method Blank (MB)
1205833879	Laboratory Control Sample (LCS)
1205833880	682330001(KRA-GWC-9) Sample Duplicate (DUP)
1205833881	682330001(KRA-GWC-9) Post Spike (PS)
1205833882	682330012(KRA-GWC-16) Sample Duplicate (DUP)
1205833883	682330012(KRA-GWC-16) Post Spike (PS)

The samples in this SDG were analyzed on an "as received" basis.

Data Summary:

All sample data provided in this report met the acceptance criteria specified in the analytical methods and procedures for initial calibration, continuing calibration, instrument controls and process controls where applicable, with the following exceptions.

Quality Control (QC) Information

Matrix Spike (MS)/Post Spike (PS) Recovery Statement
The percent recoveries (%R) obtained from the spike analyses are evaluated when the sample concentration is less than four times (4X) the spike concentration added. The matrix spike recovered outside of the established acceptance limits due to matrix interference and/or non-homogeneity.

Analyte	Sample	Value
Chloride	1205833881 (KRA-GWC-9PS)	111* (90%-110%)
	1205833883 (KRA-GWC-16PS)	114* (90%-110%)
Fluoride	1205833881 (KRA-GWC-9PS)	117* (90%-110%)

Technical Information

Sample Dilutions
The following samples 1205833880 (KRA-GWC-9DUP), 1205833881 (KRA-GWC-9PS), 1205833882 (KRA-GWC-16DUP), 1205833883 (KRA-GWC-16PS), 682330001 (KRA-GWC-9), 682330003 (KRA-GWC-22), 682330004 (KRA-GWA-8), 682330005 (KRA-GWB-5R), 682330007 (KRA-GWC-11), 682330008 (KRA-GWC-12), 682330009 (KRA-GWC-13), 682330010 (KRA-GWC-14), 682330011 (KRA-GWC-15), 682330012 (KRA-GWC-16), 682330013 (KRA-GWC-17), 682330014 (KRA-GWC-20) and 682330015 (KRA-MW-23D) were diluted because target analyte concentrations exceeded the calibration range. Dilutions may be required for many reasons, including to minimize matrix interferences or to bring over range target analyte concentrations into the linear calibration range.

Analyte	682330									
	001	**003**	**004**	**005**	**007**	**008**	**009**	**010**	**011**	**012**
Chloride	5X	5X	10X	25X	50X	50X	1X	5X	1X	5X
Sulfate	5X	5X	10X	25X	50X	50X	5X	5X	2X	200X

Analyte	682330		
	013	**014**	**015**
Chloride	100X	4X	1X
Sulfate	100X	100X	2X

Miscellaneous Information

Manual Integrations
Samples 682330008 (KRA-GWC-12), 682330015 (KRA-MW-23D) and 682330016 (KRA-MW-24D) were manually integrated to correctly position the baseline as set in the calibration standards.

Product: **Solids, Total Dissolved**
Analytical Method: SM 2540C
Analytical Procedure: GL-GC-E-001 REV# 21
Analytical Batch: 2663921

The following samples were analyzed using the above methods and analytical procedure(s).

GEL Sample ID#	Client Sample Identification
682330001	KRA-GWC-9
682330002	KRA-GRL-EB-05
682330003	KRA-GWC-22
682330004	KRA-GWA-8
682330005	KRA-GWB-5R
682330006	KRA-GWC-2
682330007	KRA-GWC-11
682330008	KRA-GWC-12
682330009	KRA-GWC-13
682330010	KRA-GWC-14
682330011	KRA-GWC-15
682330012	KRA-GWC-16
682330013	KRA-GWC-17
682330014	KRA-GWC-20
682330015	KRA-MW-23D
682330016	KRA-MW-24D
682330017	KRA-MW-25D
682330019	KRA-GRL-FB-02
1205837523	Method Blank (MB)
1205837524	Laboratory Control Sample (LCS)
1205837525	682330010(KRA-GWC-14) Sample Duplicate (DUP)

The samples in this SDG were analyzed on an "as received" basis.

Data Summary:

All sample data provided in this report met the acceptance criteria specified in the analytical methods and procedures for initial calibration, continuing calibration, instrument controls and process controls where applicable, with the following exceptions.

Miscellaneous Information

Additional Comments
A reduced aliquot was used due to historical information. 682330005 (KRA-GWB-5R), 682330007 (KRA-GWC-11), 682330012 (KRA-GWC-16) and 682330013 (KRA-GWC-17).

Product: **Solids, Total Dissolved**

Analytical Method: SM 2540C
Analytical Procedure: GL-GC-E-001 REV# 21
Analytical Batch: 2663923

The following samples were analyzed using the above methods and analytical procedure(s).

GEL Sample ID#	Client Sample Identification
682330018	KRA-GRL-FD-03
682330020	KRA-GRL-FB-03
682330021	KRA-GRL-EB-06
1205837527	Method Blank (MB)
1205837528	Laboratory Control Sample (LCS)
1205837529	682145009(NonSDG) Sample Duplicate (DUP)

The samples in this SDG were analyzed on an "as received" basis.

Data Summary:

There are no exceptions, anomalies or deviations from the specified methods. All sample data provided in this report met the acceptance criteria specified in the analytical methods and procedures for initial calibration, continuing calibration, instrument controls and process controls where applicable.

Product: **Solids, Total Dissolved**
Analytical Method: SM 2540C
Analytical Procedure: GL-GC-E-001 REV# 21
Analytical Batch: 2664569

The following samples were analyzed using the above methods and analytical procedure(s).

GEL Sample ID#	Client Sample Identification
682330022	KRA-GWC-21
682330023	KRA-GRL-FD-01
1205838903	Method Blank (MB)
1205838904	Laboratory Control Sample (LCS)
1205838906	682409004(NonSDG) Sample Duplicate (DUP)

The samples in this SDG were analyzed on an "as received" basis.

Data Summary:

All sample data provided in this report met the acceptance criteria specified in the analytical methods and procedures for initial calibration, continuing calibration, instrument controls and process controls where applicable, with the following exceptions.

Quality Control (QC) Information

Method Blank (MB) Statement
The MB (See Below) analyzed with this SDG met the acceptance criteria. In instances where there were positive hits in the method blank, the results were evaluated and appropriately flagged on the data.

Sample	Analyte	Value
1205838903 (MB)	Total Dissolved Solids	4 between (2.38 - 10)

Certification Statement

Where the analytical method has been performed under NELAP certification, the analysis has met all of the requirements of the NELAC standard unless otherwise noted in the analytical case narrative.

682330/682335

Page: 1 of 3
Project #
GEL Quote #:
COC Number (1):
PO Number: GPC82177-0004

GEL Laboratories LLC
gel.com
Chemistry | Radiochemistry | Radiobioassay | Specialty Analytics

Chain of Custody and Analytical Request

GEL Work Order Number: **GEL Project Manager: Erin Trent**

GEL Laboratories, LLC
2040 Savage Road
Charleston, SC 29407
Phone: (843) 556-8171
Fax: (843) 766-1178

Client Name: GA Power Phone # 404-506-7116
Project/Site Name: Plant Kraft - Grumman Road Landfill Fax #
Address: 241 Ralph McGill Blvd SE, Atlanta GA 30308
Collected By: T Goble / J. Berg, Stroud / D. Johnson Send Results To: SCS & ACC Contacts

Sample Analysis Requested (5) (Fill in the number of containers for each test)

Sample ID (* For composites - indicate start and stop date/time)	*Date Collected (mm-dd-yy)	*Time Collected (Military) (hhmm)	QC Code (2)	Field Filtered (3)	Sample Matrix (4)	Should this sample be considered: Radioactive (If yes, please supply isotopic info.)	Should this sample be considered: (7) Known or possible Hazards	Total number of containers	Cl, F, SO4, TDS EPA 300, SM 2540C	NI Metals * EPA 6020, 6010, 7470	NI Radium 226 & 228 SW-846 9315, 9320	<-- Preservative Type (6)	Comments
KRA- GWC-9	08-21-24	0930	G	N	WG	N	N	6	✓	✓	✓		Note: extra sample is required for sample specific QC Task_Code: KRA-CCR-ASSMT-2024S2
KRA- GRL-EB-05	08-21-24	1015	G	N	WQ	N	N	6	✓	✓	✓		
KRA- GWC-22	08-21-24	1129	G	N	WG	N	N	6	✓	✓	✓		
KRA- GWA-8	08-21-24	1639	G	N	WG	N	N	6	✓	✓	✓		
KRA- GWB-5R	08-21-24	1812	G	N	WG	N	N	6	✓	✓	✓		
KRA- GWC-2	08-21-24	1324	G	N	WG	N	N	6	✓	✓	✓		
KRA- GWC-11	08-21-24	1311	G	N	WG	N	N	6	✓	✓	✓		
KRA- GWC-12	08-21-24	1511	G	N	WG	N	N	6	✓	✓	✓		
KRA- GWC-13	08-21-24	1640	G	N	WG	N	N	6	✓	✓	✓		
KRA- GWC-14	08-21-24	1215	G	N	WG	N	N	6	✓	✓	✓		

Chain of Custody Signatures

	Relinquished By (Signed)	Date	Time	Received by (signed)	Date	Time
1		8-22-24	1354		8/22/24	1354
2						
3						

TAT Requested: Normal: x Rush: ____ Specify: ____ (Subject to Surcharge)

Fax Results: [ ] Yes [x] No

Select Deliverable: [ ] C of A [ ] QC Summary [ ] level 1 [x] Level 2 [ ] Level 3 [ ] Level 4

Additional Remarks: * **Metals: B,Ca,Sb,As,Ba,Be,Cd,Cr,Co,Pb,Li,Mo,Se,Tl,V,Zn,Hg**

For Lab Receiving Use Only: *Custody Seal Intact?* [ ] *Yes* [ ] *No* *Cooler Temp:* 0 °C

> *For sample shipping and delivery details, see Sample Receipt & Review form (SRR.)*

Sample Collection Time Zone: [x] Eastern [ ] Pacific [ ] Central [ ] Mountain [ ] Other:

1.) Chain of Custody Number = Client Determined

2.) QC Codes: **N** = Normal Sample, **TB** = Trip Blank, **FD** = Field Duplicate, **EB** = Equipment Blank, **MS** = Matrix Spike Sample, **MSD** = Matrix Spike Duplicate Sample, **G** = Grab, **C** = Composite

3.) Field Filtered: For liquid matrices, indicate with a - **Y** - for yes the sample was field filtered or - **N** - for sample was not field filtered.

4.) Matrix Codes: **WD**=Drinking Water, **WG**=Groundwater, **WS**=Surface Water, **WW**=Waste Water, **WL**=Leachate, **SO**=Soil, **SE**=Sediment, **SL**=Sludge, **WQ**=Water Quality Control Matrix

5.) Sample Analysis Requested: Analytical method requested (i.e. **8260B, 6010B/7470A**) and number of containers provided for each (i.e. *8260B* - **3**, *6010B/7470A* - **1**).

6.) Preservative Type: **HA** = Hydrochloric Acid, **NI** = Nitric Acid, **SH** = Sodium Hydroxide, **SA** = Sulfuric Acid, **AA** = Ascorbic Acid, **HX** = Hexane, **ST** = Sodium Thiosulfate, If no preservative is added = leave field blank

7.) KNOWN OR POSSIBLE HAZARDS

RCRA Metals
As = Arsenic **Hg**= Mercury
Ba = Barium **Se**= Selenium
Cd = Cadmium **Ag**= Silver
Cr = Chromium **MR**= Misc. RCRA metals
Pb = Lead

Characteristic Hazards
FL = Flammable/Ignitable
CO = Corrosive
RE = Reactive

TSCA Regulated
PCB = Polychlorinated biphenyls

Listed Waste
LW= Listed Waste
(F,K,P and U-listed wastes.)
Waste code(s):

Other
OT= Other / Unknown
(i.e.: High/low pH, asbestos, beryllium, irritants, other misc. health hazards, etc.)
Description:

Please provide any additional details below regarding handling and/or disposal concerns. (i.e.: Origin of sample(s), type of site collected from, odd matrices, etc.)

Page: 2 of 3
Project #
GEL Quote #:
COC Number (1):
PO Number: GPC82177-0004

GEL Laboratories LLC
gel.com | Chemistry | Radiochemistry | Radiobioassay | Specialty Analytics

Chain of Custody and Analytical Request

GEL Work Order Number:

GEL Project Manager: Erin Trent

GEL Laboratories, LLC
2040 Savage Road
Charleston, SC 29407
Phone: (843) 556-8171
Fax: (843) 766-1178

Client Name: GA Power — Phone # 404-506-7116
Project/Site Name: Plant Kraft - Grumman Road Landfill — Fax #
Address: 241 Ralph McGill Blvd SE, Atlanta GA 30308
Collected By: T. Gobie, D. Johnson / J. ACC Berrisford — Send Results To: SCS & ACC Contacts

Sample Analysis Requested (5) (Fill in the number of containers for each test)

Sample ID (* For composites - indicate start and stop date/time)	*Date Collected (mm-dd-yy)	*Time Collected (Military) (hhmm)	QC Code (2)	Field Filtered (3)	Sample Matrix (4)	Should this sample be considered: Radioactive (If yes, please supply isotopic info.)	Should this sample be considered: (7) Known or possible Hazards	Total number of containers	Cl, F, SO4, TDS EPA 300, SM 2540C	NI Metals * EPA 6020, 6010, 7470	NI Radium 226 & 228 SW-846 9315, 9320	<-- Preservative Type (6)
KRA- GWC-15	08-21-24	1730	G	N	WG	N	N	6	✓	✓	✓	
KRA- GWC-16	08-21-24	1600	G	N	WG	N	N	6	✓	✓	✓	
KRA- GWC-17	08-21-24	1741	G	N	WG	N	N	6	✓	✓	✓	
KRA- GWC-20	08-21-24	1255	G	N	WG	N	N	6	✓	✓	✓	
KRA- MW-23D	08-21-24	1045	G	N	WG	N	N	6	✓	✓	✓	
KRA- MW-24D	08-21-24	1801	G	N	WG	N	N	6	✓	✓	✓	
KRA- MW-25D	08-21-24	1620	G	N	WG	N	N	6	✓	✓	✓	
KRA- GRL-FD-03	08-21-24	—	G	N	WG	N	N	6	✓	✓	✓	
KRA- GRL-FB-02	08-21-24	1035	G	N	WQ	N	N	6	✓	✓	✓	
KRA- GRL-FB-03	08-21-24	1840	G	N	WQ	N	N	6	✓	✓	✓	

Comments
Note: extra sample is required for sample specific QC
Task_Code: KRA-CCR-ASSMT-2024S2

Chain of Custody Signatures

	Relinquished By (Signed)	Date	Time	Received by (signed)	Date	Time
1		8-22-24	1354		8/22/24	1354
2						
3						

TAT Requested: Normal: x Rush: ____ Specify: ____ (Subject to Surcharge)

Fax Results: [ ] Yes [x] No

Select Deliverable: [ ] C of A [ ] QC Summary [ ] level 1 [x] Level 2 [ ] Level 3 [ ] Level 4

Additional Remarks: * **Metals: B,Ca,Sb,As,Ba,Be,Cd,Cr,Co,Pb,Li,Mo,Se,Tl,V,Zn,Hg**

For Lab Receiving Use Only: *Custody Seal Intact?* [ ] Yes [ ] No *Cooler Temp:* ◯ °C

> *For sample shipping and delivery details, see Sample Receipt & Review form (SRR.)*

Sample Collection Time Zone: [x] Eastern [ ] Pacific [ ] Central [ ] Mountain [ ] Other:

1.) Chain of Custody Number = Client Determined

2.) QC Codes: **N** = Normal Sample, **TB** = Trip Blank, **FD** = Field Duplicate, **EB** = Equipment Blank, **MS** = Matrix Spike Sample, **MSD** = Matrix Spike Duplicate Sample, **G** = Grab, **C** = Composite

3.) Field Filtered: For liquid matrices, indicate with a **- Y -** for yes the sample was field filtered or **- N -** for sample was not field filtered.

4.) Matrix Codes: **WD**=Drinking Water, **WG**=Groundwater, **WS**=Surface Water, **WW**=Waste Water, **WL**=Leachate, **SO**=Soil, **SE**=Sediment, **SL**=Sludge, **WQ**=Water Quality Control Matrix

5.) Sample Analysis Requested: Analytical method requested (i.e. **8260B**, **6010B/7470A**) and number of containers provided for each (i.e. *8260B* - **3**, *6010B/7470A* - **1**).

6.) Preservative Type: **HA** = Hydrochloric Acid, **NI** = Nitric Acid, **SH** = Sodium Hydroxide, **SA** = Sulfuric Acid, **AA** = Ascorbic Acid, **HX** = Hexane, **ST** = Sodium Thiosulfate, If no preservative is added = leave field blank

7.) **KNOWN OR POSSIBLE HAZARDS**

RCRA Metals
As = Arsenic **Hg**= Mercury
Ba = Barium **Se**= Selenium
Cd = Cadmium **Ag**= Silver
Cr = Chromium **MR**= Misc. RCRA metals
Pb = Lead

Characteristic Hazards
FL = Flammable/Ignitable
CO = Corrosive
RE = Reactive

TSCA Regulated
PCB = Polychlorinated biphenyls

Listed Waste
LW= Listed Waste
(F,K,P and U-listed wastes.)
Waste code(s):

Other
OT= Other / Unknown
(i.e.: High/low pH, asbestos, beryllium, irritants, other misc. health hazards, etc.)
Description:

Please provide any additional details below regarding handling and/or disposal concerns. (i.e.: Origin of sample(s), type of site collected from, odd matrices, etc.)

Page: 3 of 3
Project #
GEL Quote #:
COC Number (1):
PO Number: GPC82177-0004

GEL Laboratories LLC
gel.com
Chemistry | Radiochemistry | Radiobioassay | Specialty Analytics

Chain of Custody and Analytical Request

GEL Work Order Number:

GEL Project Manager: Erin Trent

GEL Laboratories, LLC
2040 Savage Road
Charleston, SC 29407
Phone: (843) 556-8171
Fax: (843) 766-1178

Client Name: GA Power
Phone # 404-506-7116

Project/Site Name: Plant Kraft - Grumman ~~Clifton Seep~~ Road Landfill
Fax #

Address: 241 Ralph McGill Blvd SE, Atlanta GA 30308

Collected By: T. Goyle D. Johnson / J. May ACC
Send Results To: SCS & ACC Contacts

Sample Analysis Requested (5) (Fill in the number of containers for each test)

Sample ID * For composites - indicate start and stop date/time	*Date Collected (mm-dd-yy)	*Time Collected (Military) (hhmm)	QC Code (2)	Field Filtered (3)	Sample Matrix (4)	Should this sample be considered: Radioactive (If yes, please supply isotopic info.)	Should this sample be considered: (7) Known or possible Hazards	Total number of containers	Cl, F, SO4, TDS EPA 300, SM 2540C	Metals * EPA 6020, 6010, 7470 (NI)	Radium 226 & 228 SW-846 9315, 9320 (NI)	Nitrate EPA 300	Total, Carb, & Bicarb Alk - SM 2320B	NH3, TKN EPA 350.1, 351.2 (SA)	TOC SM 5310B	Dissolved Methane RSK 175	<-- Preservative Type (6)
~~KRA-CLIPTON-SEEP-GRL-EB-05~~ TG TG TG	~~08-21-24~~ TG	~~1015~~ TG	~~G~~ TG	~~N~~ TG	~~WQ~~ WL TG	N	N	10	✓	✓	✓						
KRA-GRL-EB-06	08-21-24	1830	G	N	WQ	N	N	6	✓	✓	✓						
KRA-GWC-21	08-22-24	1031	G	N	WG	N	N	6	✓	✓	✓						
KRA-GRL-FD-01	08-22-24	—	G	N	WG	N	N	6	✓	✓	✓						

Comments
Note: extra sample is required for sample specific QC
Task_Code: KRA-CCR-ASSMT-2024S2

Chain of Custody Signatures

	Relinquished By (Signed)	Date	Time	Received by (signed)	Date	Time
1		8-22-24	1354		8/22/24	1354
2						
3						

TAT Requested: Normal: x Rush: ____ Specify: ____ (Subject to Surcharge)

Fax Results: [ ] Yes [x] No

Select Deliverable: [ ] C of A [ ] QC Summary [ ] level 1 [x] Level 2 [ ] Level 3 [ ] Level 4

Additional Remarks: * Metals: B,Ca,Sb,As,Ba,Be,Cd,Cr,Co,Pb,Li,Mo,Se,Tl,V,Zn,Fe,Mg,Mn,K,Na,Hg

For Lab Receiving Use Only: *Custody Seal Intact?* [ ] Yes [ ] No *Cooler Temp:* 0 °C

> *For sample shipping and delivery details, see Sample Receipt & Review form (SRR.)*

Sample Collection Time Zone: [x] Eastern [ ] Pacific [ ] Central [ ] Mountain [ ] Other:

1.) Chain of Custody Number = Client Determined

2.) QC Codes: **N** = Normal Sample, **TB** = Trip Blank, **FD** = Field Duplicate, **EB** = Equipment Blank, **MS** = Matrix Spike Sample, **MSD** = Matrix Spike Duplicate Sample, **G** = Grab, **C** = Composite

3.) Field Filtered: For liquid matrices, indicate with a **- Y -** for yes the sample was field filtered or **- N -** for sample was not field filtered.

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(F,K,P and U-listed wastes.)
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(i.e.: High/low pH, asbestos, beryllium, irritants, other misc. health hazards, etc.)
Description:

Please provide any additional details below regarding handling and/or disposal concerns. *(i.e.: Origin of sample(s), type of site collected from, odd matrices, etc.)*

WO 8/23/24 | 682330
~~682333~~ | 682336
682335

GEL Laboratories LLC

SAMPLE RECEIPT & REVIEW FORM

Client: GPCC	**SDG/AR/COC/Work Order:**
Received By: EG	**Date Received:** 8/22/24
Carrier and Tracking Number	Circle Applicable: FedEx Express FedEx Ground UPS Field Services Courier (Other)

Suspected Hazard Information	Yes	No	*If Net Counts > 100cpm on samples not marked "radioactive", contact the Radiation Safety Group for further investigation.
A)Shipped as a DOT Hazardous?		✓	Hazard Class Shipped: UN#: If UN2910, Is the Radioactive Shipment Survey Compliant? Yes___ No___
B) Did the client designate the samples are to be received as radioactive?		✓	COC notation or radioactive stickers on containers equal client designation.
C) Did the RSO classify the samples as radioactive?		✓	Maximum Net Counts Observed* (Observed Counts - Area Background Counts): 0 CPM / mR/Hr (0) **Classified as: Rad 1 Rad 2 Rad 3**
D) Did the client designate samples are hazardous?		✓	COC notation or hazard labels on containers equal client designation.
E) Did the RSO identify possible hazards?		✓	If D or E is yes, select Hazards below. PCB's Flammable Foreign Soil RCRA Asbestos Beryllium Other:

	Sample Receipt Criteria	Yes	NA	No	Comments/Qualifiers (Required for Non-Conforming Items)
1	Shipping containers received intact and sealed?	✓			Circle Applicable: Seals broken Damaged container Leaking container Other (describe)
2	Chain of custody documents included with shipment?	✓			Circle Applicable: Client contacted and provided COC COC created upon receipt
3	Samples requiring cold preservation within (0 ≤ 6 deg. C)?*	✓			Preservation Method: (Wet Ice) Ice Packs Dry ice None Other: *all temperatures are recorded in Celsius TEMP: 0
4	Daily check performed and passed on IR temperature gun?	✓			**Temperature Device Serial #:** IR2-24 Secondary Temperature Device Serial # (If Applicable):
5	Sample containers intact and sealed?	✓			Circle Applicable: Seals broken Damaged container Leaking container Other (describe)
6	Samples requiring chemical preservation at proper pH?	✓			Sample ID's and Containers Affected: If Preservation added, Lot#:
7	Do any samples require Volatile Analysis?			✓	If Yes, are Encores or Soil Kits present for solids? Yes___ No___ NA___(If yes, take to VOA Freezer) Do liquid VOA vials contain acid preservation? Yes___ No___ NA___(If unknown, select No) Are liquid VOA vials free of headspace? Yes___ No___ NA___ Sample ID's and containers affected:
8	Samples received within holding time?	✓			ID's and tests affected:
9	Sample ID's on COC match ID's on bottles?	✓			ID's and containers affected:
10	Date & time on COC match date & time on bottles?	✓			Circle Applicable: No dates on containers No times on containers COC missing info Other (describe)
11	Number of containers received match number indicated on COC?	✓			Circle Applicable: No container count on COC Other (describe)
12	Are sample containers identifiable as GEL provided by use of GEL labels?			✓	
13	COC form is properly signed in relinquished/received sections?	✓			Circle Applicable: Not relinquished Other (describe)

Comments (Use Continuation Form if needed):

PM (or PMA) review: Initials WJ Date 8/23/24 Page 1 of 1

GL-CHL-SR-001 Rev 7

Rev 1
9/27/24

682330/682335

Page: 1 of 3
Project #
GEL Quote #:
COC Number (1):
PO Number: GPC82177-0004

GEL Laboratories LLC
gel.com
Chemistry | Radiochemistry | Radiobioassay | Specialty Analytics

Chain of Custody and Analytical Request

GEL Work Order Number:
GEL Project Manager: Erin Trent

GEL Laboratories, LLC
2040 Savage Road
Charleston, SC 29407
Phone: (843) 556-8171
Fax: (843) 766-1178

Client Name: GA Power
Phone # 404-506-7116
Project/Site Name: Plant Kraft - Grumman Road Landfill
Fax #
Address: 241 Ralph McGill Blvd SE, Atlanta GA 30308
Collected By: T Goble / J. Perstrief / ACC / D. Johnson
Send Results To: SCS & ACC Contacts

Sample Analysis Requested (5) (Fill in the number of containers for each test)

Sample ID (* For composites - indicate start and stop date/time)	*Date Collected (mm-dd-yy)	*Time Collected (Military) (hhmm)	QC Code (2)	Field Filtered (3)	Sample Matrix (4)	Should this sample be considered: Radioactive (If yes, please supply isotopic info.)	Should this sample be considered: (7) Known or possible Hazards	Total number of containers	Cl, F, SO4, TDS EPA 300, SM 2540C	NI Metals * EPA 6020, 6010, 7470	NI Radium 226 & 228 SW-846 9315, 9320	<-- Preservative Type (6)
KRA- GWC-9	08-21-24	0930	G	N	WG	N	N	6	✓	✓	✓	
KRA- GRL-EB-05	08-21-24	1015	G	N	WQ	N	N	6	✓	✓	✓	
KRA- GWC-22	08-21-24	1129	G	N	WG	N	N	6	✓	✓	✓	
KRA- GWA-8	08-21-24	1639	G	N	WG	N	N	6	✓	✓	✓	
KRA- GWB-5R	08-21-24	1812	G	N	WG	N	N	6	✓	✓	✓	
KRA- GWC-2	08-21-24	1324	G	N	WG	N	N	6	✓	✓	✓	
KRA- GWC-11	08-21-24	1311	G	N	WG	N	N	6	✓	✓	✓	
KRA- GWC-12	08-21-24	1511	G	N	WG	N	N	6	✓	✓	✓	
KRA- GWC-13	08-21-24	1640	G	N	WG	N	N	6	✓	✓	✓	
KRA- GWC-14	08-21-24	1215	G	N	WG	N	N	6	✓	✓	✓	

Comments
Note: extra sample is required for sample specific QC
Task_Code: KRA-CCR-ASSMT-2024S2

Chain of Custody Signatures

	Relinquished By (Signed)	Date	Time	Received by (signed)	Date	Time
1		8-22-24	1354		8/22/24	1354
2						
3						

TAT Requested: Normal: x Rush: ____ Specify: ____ (Subject to Surcharge)
Fax Results: [ ] Yes [x] No
Select Deliverable: [ ] C of A [ ] QC Summary [ ] level 1 [x] Level 2 [ ] Level 3 [ ] Level 4
Additional Remarks: * Metals: B,Ca,Sb,As,Ba,Be,Cd,Cr,Co,Pb,Li,Mo,Se,Tl,V,Zn,Hg
For Lab Receiving Use Only: Custody Seal Intact? [ ] Yes [ ] No *Cooler Temp:* 0 °C
Sample Collection Time Zone: [x] Eastern [ ] Pacific [ ] Central [ ] Mountain [ ] Other:

> For sample shipping and delivery details, see Sample Receipt & Review form (SRR.)

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Page: 2 of 3
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Chain of Custody and Analytical Request

GEL Work Order Number: *GEL Project Manager: Erin Trent*

GEL Laboratories, LLC
2040 Savage Road
Charleston, SC 29407
Phone: (843) 556-8171
Fax: (843) 766-1178

Client Name: GA Power — Phone # 404-506-7116
Project/Site Name: Plant Kraft - Grumman Road Landfill — Fax #
Address: 241 Ralph McGill Blvd SE, Atlanta GA 30308
Collected By: T. Gobie, D. Johnson / J. ACC Beckford — Send Results To: SCS & ACC Contacts

Sample Analysis Requested (5) (Fill in the number of containers for each test)

Sample ID (* For composites - indicate start and stop date/time)	*Date Collected (mm-dd-yy)	*Time Collected (Military) (hhmm)	QC Code (2)	Field Filtered (3)	Sample Matrix (4)	Should this sample be considered: Radioactive (If yes, please supply isotopic info.)	Should this sample be considered: (7) Known or possible Hazards	Total number of containers	Cl, F, SO4, TDS EPA 300, SM 2540C	NI Metals * EPA 6020, 6010, 7470	NI Radium 226 & 228 SW-846 9315, 9320	<-- Preservative Type (6)
KRA- GWC-15	08-21-24	1730	G	N	WG	N	N	6	✓	✓	✓	
KRA- GWC-16	08-21-24	1600	G	N	WG	N	N	6	✓	✓	✓	
KRA- GWC-17	08-21-24	1741	G	N	WG	N	N	6	✓	✓	✓	
KRA- GWC-20	08-21-24	1255	G	N	WG	N	N	6	✓	✓	✓	
KRA- MW-23D	08-21-24	1045	G	N	WG	N	N	6	✓	✓	✓	
KRA- MW-24D	08-21-24	1801	G	N	WG	N	N	6	✓	✓	✓	
KRA- MW-25D	08-21-24	1620	G	N	WG	N	N	6	✓	✓	✓	
KRA- GRL-FD-03	08-21-24	—	G	N	WG	N	N	6	✓	✓	✓	
KRA- GRL-FB-02	08-21-24	1035	G	N	WQ	N	N	6	✓	✓	✓	
KRA- GRL-FB-03	08-21-24	1840	G	N	WQ	N	N	6	✓	✓	✓	

Comments
Note: extra sample is required for sample specific QC
Task_Code: KRA-CCR-ASSMT-2024S2

Chain of Custody Signatures

	Relinquished By (Signed)	Date	Time	Received by (signed)	Date	Time
1		8-22-24	1354		8/22/24	1354
2						
3						

TAT Requested: Normal: x Rush: ____ Specify: ____ (Subject to Surcharge)
Fax Results: [ ] Yes [x] No
Select Deliverable: [ ] C of A [ ] QC Summary [ ] level 1 [x] Level 2 [ ] Level 3 [ ] Level 4
Additional Remarks: * **Metals: B,Ca,Sb,As,Ba,Be,Cd,Cr,Co,Pb,Li,Mo,Se,Tl,V,Zn,Hg**
For Lab Receiving Use Only: Custody Seal Intact? [ ] Yes [ ] No *Cooler Temp:* ○ °C

> *For sample shipping and delivery details, see Sample Receipt & Review form (SRR.)*

Sample Collection Time Zone: [x] Eastern [ ] Pacific [ ] Central [ ] Mountain [ ] Other:

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~~KRA-CLIFTON-SEEP~~ ~~GRL-EB-05~~	~~08-21-24~~	~~1015~~	~~G~~	~~N~~	~~WG~~ WL	N	N	10	✓	✓	✓						
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Task_Code: KRA-CCR-ASSMT-2024S2

Chain of Custody Signatures

	Relinquished By (Signed)	Date	Time	Received by (signed)	Date	Time
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2						
3						

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Fax Results: [ ] Yes [x] No
Select Deliverable: [ ] C of A [ ] QC Summary [ ] level 1 [x] Level 2 [ ] Level 3 [ ] Level 4
Additional Remarks: * Metals: B,Ca,Sb,As,Ba,Be,Cd,Cr,Co,Ph,Li,Mo,Se,Tl,V,Zn,~~Fe,Mg,Mn,K,Na~~,Hg BMD 8/29/24
For Lab Receiving Use Only: Custody Seal Intact? [ ] Yes [ ] No Cooler Temp: ____ °C

> For sample shipping and delivery details, see Sample Receipt & Review form (SRR.)

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List of current GEL Certifications as of 03 October 2024

State	Certification
Alabama	42200
Alaska	17-018
Alaska Drinking Water	SC00012
Arkansas	88-00651
CLIA	42D0904046
California	2940
Colorado	SC00012
Connecticut	PH-0169
DoD ELAP/ ISO17025 A2LA	2567.01
Florida NELAP	E87156
Foreign Soils Permit	P330-15-00283, P330-15-00253
Georgia	SC00012
Georgia SDWA	967
Hawaii	SC00012
Idaho	SC00012
Illinois NELAP	200029
Indiana	C-SC-01
Kansas NELAP	E-10332
Kentucky SDWA	KY90129
Kentucky Wastewater	KY90129
Louisiana Drinking Water	LA024
Louisiana NELAP	03046 (AI33904)
Maine	2023019
Maryland	270
Massachusetts	M-SC012
Massachusetts PFAS Approv	Letter
Michigan	9976
Mississippi	SC00012
Nebraska	NE-OS-26-13
Nevada	NV-C24-00175
New Hampshire NELAP	205424
New Jersey NELAP	SC002
New Mexico	SC00012
New York NELAP	11501
North Carolina	233
North Carolina SDWA	45709
North Dakota	R-158
Oklahoma	2023-152
Pennsylvania NELAP	68-00485
Puerto Rico	SC00012
S. Carolina Radiochem	10120002
Sanitation Districts of L	9255651
South Carolina Chemistry	10120001
Tennessee	TN 02934
Texas NELAP	T104704235
Utah NELAP	SC000122024-41
Vermont	VT87156
Virginia NELAP	460202
Washington	C780

GEL Laboratories LLC
a member of The GEL Group INC

2040 Savage Road | Charleston, SC 29407
843.556.8171
gel.com

September 06, 2024

Kristen Jurinko
Georgia Power Company
241 Ralph McGill Blvd NE
Bin 10160
Atlanta, Georgia 30308

Re: Kraft - Grumman Road Landfill CCR Groundwater Compliance
Work Order: 682336

Dear Kristen Jurinko:

GEL Laboratories, LLC (GEL) appreciates the opportunity to provide the enclosed analytical results for the sample(s) we received on August 22, 2024. This original data report has been prepared and reviewed in accordance with GEL's standard operating procedures.

The sample was delivered with proper chain of custody documentation and signatures. All sample containers arrived without any visible signs of tampering or breakage. There are no additional comments concerning sample receipt. The laboratory received the following sample(s):

Laboratory ID	Client ID	Matrix	Date Collected	Date Received
682336001	KRA-GWB-5R	Ground Water	08/21/24 18:12	08/22/24 13:54

Test results for NELAP or ISO 17025 accredited tests are verified to meet the requirements of those standards, with any exceptions noted. The results reported relate only to the items tested and to the sample as received by the laboratory. These results may not be reproduced except as full reports without approval by the laboratory. Copies of GEL's accreditations and certifications can be found on our website at www.gel.com.

Prep Methods and Prep Dates

Method	Run Date ID
SW846 3005A	26-AUG-2024
SW846 7470A Prep	26-AUG-2024

Analysis Methods and Analysis Dates

Method	Run Date ID
SW846 3005A/6020B	01-SEP-2024
SW846 3005A/6020B	31-AUG-2024
SW846 7470A	27-AUG-2024

Our policy is to provide high quality, personalized analytical services to enable you to meet your analytical needs on time every time. We trust that you will find everything in order and to your satisfaction. If you have any questions, please do not hesitate to call me at (843) 556-8171, ext. 4443.

Sincerely,

Alaina Pinnick

Alaina Pinnick
Project Manager

Purchase Order: GPC82177-0004
Enclosures

GEL LABORATORIES LLC
2040 Savage Road Charleston SC 29407 - (843) 556-8171 - www.gel.com

Certificate of Analysis Report
for

GPCC001 Georgia Power Company

Client SDG: 682336 GEL Work Order: 682336

The Qualifiers in this report are defined as follows:

* A quality control analyte recovery is outside of specified acceptance criteria

** Analyte is a Tracer compound

** Analyte is a surrogate compound

B Either presence of analyte detected in the associated blank, or MDL/IDL < sample value < PQL

H Analytical holding time was exceeded

J Value is estimated

N/A RPD or %Recovery limits do not apply.

U Analyte was analyzed for, but not detected above the MDL, MDA, MDC or LOD.

h Preparation or preservation holding time was exceeded

Where the analytical method has been performed under NELAP certification, the analysis has met all of the requirements of the NELAC standard unless qualified on the Certificate of Analysis.

The designation ND, if present, appears in the result column when the analyte concentration is not detected above the limit as defined in the 'U' qualifier above.

This data report has been prepared and reviewed in accordance with GEL Laboratories LLC standard operating procedures. Please direct any questions to your Project Manager, Alaina Pinnick.

Reviewed by Alaina Pinnick

GEL LABORATORIES LLC
2040 Savage Road Charleston SC 29407 - (843) 556-8171 - www.gel.com

Certificate of Analysis

Report Date: September 6, 2024

Company :	Georgia Power Company
Address :	241 Ralph McGill Blvd NE Bin 10160 Atlanta, Georgia 30308
Contact:	Kristen Jurinko
Project:	Kraft - Grumman Road Landfill CCR Groundwater Compliance

Client Sample ID:	KRA-GWB-5R	Project:	GPCC00102
Sample ID:	682336001	Client ID:	GPCC001
Matrix:	WG		
Collect Date:	21-AUG-24 18:12		
Receive Date:	22-AUG-24		
Collector:	Client		

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Mercury Analysis-CVAA												
7470 Cold Vapor Dissolved Mercury, Liquid "As Received"												
Mercury	U	ND	0.0000670	0.000200	mg/L	1.00	1	JP2	08/27/24	1400	2662050	1
Metals Analysis-ICP-MS												
SW846 3005A/6020B Dissolved "As Received"												
Calcium		29.6	0.0800	0.200	mg/L	1.00	1	BAJ	09/01/24	1255	2661587	2
Lithium	U	ND	0.00300	0.0100	mg/L	1.00	1					
Boron		5.08	0.260	0.750	mg/L	1.00	50	BAJ	09/01/24	1250	2661587	3
Beryllium	U	ND	0.000200	0.000500	mg/L	1.00	1	PRB	09/01/24	1534	2661587	4
Antimony	U	ND	0.00100	0.00300	mg/L	1.00	1	BAJ	08/31/24	1717	2661587	5
Arsenic	J	0.00265	0.00200	0.00500	mg/L	1.00	1					
Barium		0.0907	0.000670	0.00400	mg/L	1.00	1					
Cadmium	U	ND	0.000300	0.00100	mg/L	1.00	1					
Chromium	J	0.00450	0.00300	0.0100	mg/L	1.00	1					
Cobalt		0.00144	0.000300	0.00100	mg/L	1.00	1					
Lead	U	ND	0.000500	0.00200	mg/L	1.00	1					
Molybdenum	J	0.000316	0.000200	0.00100	mg/L	1.00	1					
Selenium	J	0.00208	0.00150	0.00500	mg/L	1.00	1					
Thallium	U	ND	0.000600	0.00200	mg/L	1.00	1					
Vanadium	J	0.0199	0.00330	0.0200	mg/L	1.00	1					
Zinc	U	ND	0.00330	0.0200	mg/L	1.00	1					

The following Prep Methods were performed:

Method	Description	Analyst	Date	Time	Prep Batch
SW846 3005A	ICP-MS 3005A PREP	AB5	08/26/24	0820	2661586
SW846 7470A Prep	EPA 7470A Mercury Prep Liquid	JM13	08/26/24	1100	2662049

The following Analytical Methods were performed:

Method	Description	Analyst Comments
1	SW846 7470A	
2	SW846 3005A/6020B	
3	SW846 3005A/6020B	
4	SW846 3005A/6020B	
5	SW846 3005A/6020B	

Notes:

GEL LABORATORIES LLC
2040 Savage Road Charleston SC 29407 - (843) 556-8171 - www.gel.com

Certificate of Analysis

Report Date: September 6, 2024

Company :	Georgia Power Company
Address :	241 Ralph McGill Blvd NE Bin 10160 Atlanta, Georgia 30308
Contact:	Kristen Jurinko
Project:	Kraft - Grumman Road Landfill CCR Groundwater Compliance

Client Sample ID:	KRA-GWB-5R	Project:	GPCC00102
Sample ID:	682336001	Client ID:	GPCC001

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method

Column headers are defined as follows:

DF: Dilution Factor	Lc/LC: Critical Level
DL: Detection Limit	PF: Prep Factor
MDA: Minimum Detectable Activity	RL: Reporting Limit
MDC: Minimum Detectable Concentration	SQL: Sample Quantitation Limit

QC Summary

Report Date: September 6, 2024

Georgia Power Company
241 Ralph McGill Blvd NE
Bin 10160
Atlanta, Georgia

Contact: **Kristen Jurinko**

Workorder: **682336**

Parmname	NOM	Sample	Qual	QC	Units	RPD%	REC%	Range	Anlst	Date Time
Metals Analysis - ICPMS										
Batch 2661587										
QC1205832001 LCS										
Antimony	0.0500			0.0496	mg/L		99.1	(80%-120%)	BAJ	08/31/24 16:15
Arsenic	0.0500			0.0516	mg/L		103	(80%-120%)		
Barium	0.0500			0.0511	mg/L		102	(80%-120%)		
Beryllium	0.0500			0.0527	mg/L		105	(80%-120%)	PRB	09/01/24 15:20
Boron	0.100			0.117	mg/L		117	(80%-120%)	BAJ	09/01/24 12:24
Cadmium	0.0500			0.0505	mg/L		101	(80%-120%)		08/31/24 16:15
Calcium	2.00			2.13	mg/L		106	(80%-120%)		09/01/24 12:24
Chromium	0.0500			0.0497	mg/L		99.4	(80%-120%)		08/31/24 16:15
Cobalt	0.0500			0.0499	mg/L		99.7	(80%-120%)		
Lead	0.0500			0.0519	mg/L		104	(80%-120%)		
Lithium	0.0500			0.0567	mg/L		113	(80%-120%)		09/01/24 12:24
Molybdenum	0.0500			0.0521	mg/L		104	(80%-120%)		08/31/24 16:15

QC Summary

Workorder: **682336**

Parmname	NOM	Sample	Qual	QC	Units	RPD%	REC%	Range	Anlst	Date Time
Metals Analysis - ICPMS										
Batch 2661587										
Selenium	0.0500			0.0505	mg/L		101	(80%-120%)	BAJ	08/31/24 16:15
Thallium	0.0500			0.0497	mg/L		99.4	(80%-120%)		
Vanadium	0.0500			0.0519	mg/L		104	(80%-120%)		
Zinc	0.0500			0.0524	mg/L		105	(80%-120%)		
QC1205832000 MB										
Antimony			U	ND	mg/L					08/31/24 16:12
Arsenic			U	ND	mg/L					
Barium			U	ND	mg/L					
Beryllium			U	ND	mg/L				PRB	09/01/24 15:18
Boron			U	ND	mg/L				BAJ	09/01/24 12:23
Cadmium			U	ND	mg/L					08/31/24 16:12
Calcium			U	ND	mg/L					09/01/24 12:23
Chromium			U	ND	mg/L					08/31/24 16:12
Cobalt			U	ND	mg/L					
Lead			U	ND	mg/L					

QC Summary

Workorder: **682336**

Parmname	NOM		Sample	Qual	QC	Units	RPD%	REC%	Range	Anlst	Date Time
Metals Analysis - ICPMS											
Batch 2661587											
Lithium				U	ND	mg/L				BAJ	09/01/24 12:23
Molybdenum				U	ND	mg/L					08/31/24 16:12
Selenium				U	ND	mg/L					
Thallium				U	ND	mg/L					
Vanadium				U	ND	mg/L					
Zinc				U	ND	mg/L					
QC1205832002 682324001 MS											
Antimony	0.0500	U	ND		0.0507	mg/L		101	(75%-125%)		08/31/24 16:26
Arsenic	0.0500	U	ND		0.0524	mg/L		103	(75%-125%)		
Barium	0.0500		0.0563		0.105	mg/L		96.5	(75%-125%)		
Beryllium	0.0500	U	ND		0.0539	mg/L		108	(75%-125%)	PRB	09/01/24 15:24
Boron	0.100		0.0311		0.137	mg/L		106	(75%-125%)	BAJ	09/01/24 12:27
Cadmium	0.0500	U	ND		0.0501	mg/L		100	(75%-125%)		08/31/24 16:26
Calcium	2.00		45.3		46.8	mg/L		N/A	(75%-125%)		09/01/24 12:27
Chromium	0.0500	U	ND		0.0503	mg/L		99.2	(75%-125%)		08/31/24 16:26

QC Summary

Workorder: **682336**

Parmname	NOM		Sample	Qual	QC	Units	RPD%	REC%	Range	Anlst	Date Time
Metals Analysis - ICPMS											
Batch 2661587											
Cobalt	0.0500	U	ND		0.0486	mg/L		97.3	(75%-125%)	BAJ	08/31/24 16:26
Lead	0.0500	U	ND		0.0487	mg/L		97.4	(75%-125%)		
Lithium	0.0500	J	0.00312		0.0572	mg/L		108	(75%-125%)		09/01/24 12:27
Molybdenum	0.0500	J	0.000727		0.0541	mg/L		107	(75%-125%)		08/31/24 16:26
Selenium	0.0500	U	ND		0.0504	mg/L		100	(75%-125%)		
Thallium	0.0500	U	ND		0.0472	mg/L		94.5	(75%-125%)		
Vanadium	0.0500	J	0.00364		0.0542	mg/L		101	(75%-125%)		
Zinc	0.0500	U	ND		0.0509	mg/L		98.6	(75%-125%)		
QC1205832003 682324001 MSD											
Antimony	0.0500	U	ND		0.0497	mg/L	1.9	99.3	(0%-20%)		08/31/24 16:29
Arsenic	0.0500	U	ND		0.0516	mg/L	1.49	102	(0%-20%)		
Barium	0.0500		0.0563		0.104	mg/L	0.211	96	(0%-20%)		
Beryllium	0.0500	U	ND		0.0543	mg/L	0.732	109	(0%-20%)	PRB	09/01/24 15:26
Boron	0.100		0.0311		0.136	mg/L	0.562	105	(0%-20%)	BAJ	09/01/24 12:28
Cadmium	0.0500	U	ND		0.0496	mg/L	1.02	99.1	(0%-20%)		08/31/24 16:29

QC Summary

Workorder: **682336**

Parmname	NOM		Sample	Qual	QC	Units	RPD%	REC%	Range	Anlst	Date Time
Metals Analysis - ICPMS											
Batch 2661587											
Calcium	2.00		45.3		46.9	mg/L	0.181	N/A	(0%-20%)	BAJ	09/01/24 12:28
Chromium	0.0500	U	ND		0.0498	mg/L	0.833	98.3	(0%-20%)		08/31/24 16:29
Cobalt	0.0500	U	ND		0.0485	mg/L	0.226	97.1	(0%-20%)		
Lead	0.0500	U	ND		0.0483	mg/L	0.791	96.6	(0%-20%)		
Lithium	0.0500	J	0.00312		0.0551	mg/L	3.83	104	(0%-20%)		09/01/24 12:28
Molybdenum	0.0500	J	0.000727		0.0539	mg/L	0.369	106	(0%-20%)		08/31/24 16:29
Selenium	0.0500	U	ND		0.0503	mg/L	0.157	99.8	(0%-20%)		
Thallium	0.0500	U	ND		0.0465	mg/L	1.7	92.9	(0%-20%)		
Vanadium	0.0500	J	0.00364		0.0537	mg/L	0.881	100	(0%-20%)		
Zinc	0.0500	U	ND		0.0501	mg/L	1.5	97	(0%-20%)		
QC1205832004 682324001 SDILT											
Antimony		U	ND	U	ND	ug/L	N/A		(0%-20%)		08/31/24 16:35
Arsenic		U	ND	U	ND	ug/L	N/A		(0%-20%)		
Barium			56.3		11.4	ug/L	.925		(0%-20%)		
Beryllium		U	ND	U	ND	ug/L	N/A		(0%-20%)	PRB	09/01/24 15:30

QC Summary

Workorder: **682336**

Parmname	NOM	Sample	Qual	QC	Units	RPD%	REC%	Range	Anlst	Date Time
Metals Analysis - ICPMS										
Batch 2661587										
Boron		31.1	J	8.22	ug/L	32.3		(0%-20%)	BAJ	09/01/24 12:30
Cadmium	U	ND	U	ND	ug/L	N/A		(0%-20%)		08/31/24 16:35
Calcium		45300		9090	ug/L	.308		(0%-20%)		09/01/24 12:30
Chromium	U	ND	U	ND	ug/L	N/A		(0%-20%)		08/31/24 16:35
Cobalt	U	ND	U	ND	ug/L	N/A		(0%-20%)		
Lead	U	ND	U	ND	ug/L	N/A		(0%-20%)		
Lithium	J	3.12	U	ND	ug/L	N/A		(0%-20%)		09/01/24 12:30
Molybdenum	J	0.727	U	ND	ug/L	N/A		(0%-20%)		08/31/24 16:35
Selenium	U	ND	U	ND	ug/L	N/A		(0%-20%)		
Thallium	U	ND	U	ND	ug/L	N/A		(0%-20%)		
Vanadium	J	3.64	U	ND	ug/L	N/A		(0%-20%)		
Zinc	U	ND	U	ND	ug/L	N/A		(0%-20%)		
Metals Analysis-Mercury										
Batch 2662050										
QC1205833082 668928002 DUP										
Mercury	HhU	ND	HhU	ND	mg/L	N/A			JP2	08/27/24 13:12

QC Summary

Workorder: **682336**

Parmname	NOM	Sample	Qual	QC	Units	RPD%	REC%	Range	Anlst	Date Time
Metals Analysis-Mercury										
Batch 2662050										
QC1205833081 LCS										
Mercury	0.00200			0.00200	mg/L		100	(80%-120%)	JP2	08/27/24 13:09
QC1205833080 MB										
Mercury			U	ND	mg/L					08/27/24 13:07
QC1205833083 668928002 MS										
Mercury	0.00200	HhU	ND	0.00202	mg/L		101	(75%-125%)		08/27/24 13:17
QC1205833084 668928002 SDILT										
Mercury		HhU	ND	ND	ug/L	N/A		(0%-10%)		08/27/24 13:19

Notes:

The Qualifiers in this report are defined as follows:

U	Analyte was analyzed for, but not detected above the MDL, MDA, MDC or LOD.
J	Value is estimated
X	Consult Case Narrative, Data Summary package, or Project Manager concerning this qualifier
N	Metals--The Matrix spike sample recovery is not within specified control limits
H	Analytical holding time was exceeded
<	Result is less than value reported
>	Result is greater than value reported
h	Preparation or preservation holding time was exceeded
R	Sample results are rejected
^	RPD of sample and duplicate evaluated using +/-RL. Concentrations are <5X the RL. Qualifier Not Applicable for Radiochemistry.
N/A	RPD or %Recovery limits do not apply.
ND	Analyte concentration is not detected above the detection limit
E	%difference of sample and SD is >10%. Sample concentration must meet flagging criteria
NJ	Consult Case Narrative, Data Summary package, or Project Manager concerning this qualifier
Q	One or more quality control criteria have not been met. Refer to the applicable narrative or DER.
FB	Mercury was found present at quantifiable concentrations in field blanks received with these samples. Data associated with the blank are deemed invalid for reporting to regulatory agencies
N1	See case narrative
Y	Other specific qualifiers were required to properly define the results. Consult case narrative.
J	See case narrative for an explanation

QC Summary

Workorder: **682336**

Parmname	NOM	Sample	Qual	QC	Units	RPD%	REC%	Range	Anlst	Date	Time

N/A indicates that spike recovery limits do not apply when sample concentration exceeds spike conc. by a factor of 4 or more or %RPD not applicable.
^ The Relative Percent Difference (RPD) obtained from the sample duplicate (DUP) is evaluated against the acceptance criteria when the sample is greater than five times (5X) the contract required detection limit (RL). In cases where either the sample or duplicate value is less than 5X the RL, a control limit of +/- the RL is used to evaluate the DUP result.
* Indicates that a Quality Control parameter was not within specifications.
For PS, PSD, and SDILT results, the values listed are the measured amounts, not final concentrations.

Where the analytical method has been performed under NELAP certification, the analysis has met all of the requirements of the NELAC standard unless qualified on the QC Summary.

Metals
Technical Case Narrative
Georgia Power Company
SDG #: 682336

Product: **Determination of Metals by ICP-MS**
Analytical Method: SW846 3005A/6020B
Analytical Procedure: GL-MA-E-014 REV# 36
Analytical Batch: 2661587

Preparation Method: SW846 3005A
Preparation Procedure: GL-MA-E-006 REV# 15
Preparation Batch: 2661586

The following samples were analyzed using the above methods and analytical procedure(s).

GEL Sample ID#	Client Sample Identification
682336001	KRA-GWB-5R
1205832000	Method Blank (MB)**ICP-MS**
1205832001	Laboratory Control Sample (LCS)
1205832004	682324001(NonSDGL) Serial Dilution (SD)
1205832002	682324001(NonSDGS) Matrix Spike (MS)
1205832003	682324001(NonSDGSD) Matrix Spike Duplicate (MSD)

The samples in this SDG were analyzed on an "as received" basis.

Data Summary:

All sample data provided in this report met the acceptance criteria specified in the analytical methods and procedures for initial calibration, continuing calibration, instrument controls and process controls where applicable, with the following exceptions.

Calibration Information

ICSA/ICSAB Statement
For the ICP-MS analysis, the ICSA solution contains analyte concentrations which are verified trace impurities indigenous to the purchased standard.

Technical Information

Sample Dilutions
Dilutions may be required for many reasons, including to minimize matrix interferences or to bring over range target analyte concentrations into the linear calibration range. Sample 682336001 (KRA-GWB-5R) was diluted to ensure that the analyte concentration was within the linear calibration range of the instrument.

Analyte	**682336**
	001
Boron	50X

Product: **Mercury Analysis Using the Perkin Elmer Automated Mercury Analyzer**

Analytical Method: SW846 7470A
Analytical Procedure: GL-MA-E-010 REV# 40
Analytical Batch: 2662050

Preparation Method: SW846 7470A Prep
Preparation Procedure: GL-MA-E-010 REV# 40
Preparation Batch: 2662049

The following samples were analyzed using the above methods and analytical procedure(s).

GEL Sample ID#	Client Sample Identification
682336001	KRA-GWB-5R
1205833080	Method Blank (MB)**CVAA**
1205833081	Laboratory Control Sample (LCS)
1205833084	668928002(NonSDGL) Serial Dilution (SD)
1205833082	668928002(NonSDGD) Sample Duplicate (DUP)
1205833083	668928002(NonSDGS) Matrix Spike (MS)

The samples in this SDG were analyzed on an "as received" basis.

Data Summary:

All sample data provided in this report met the acceptance criteria specified in the analytical methods and procedures for initial calibration, continuing calibration, instrument controls and process controls where applicable, with the following exceptions.

Technical Information

Holding Time Specifications
GEL assigns holding times based on the associated methodology. Holding time is measured by comparison of the date and time of sample collection to the date and time of sample preparation and analysis. Those holding times expressed in hours are calculated in the AlphaLIMS system. Those holding times expressed as days expire at midnight on the day of expiration. Samples (See Below) did not meet the specified holding time requirements. Samples were logged in beyond the required holding time.

Sample	Value
1205833082 (Non SDG 668928002DUP)	Received 24-MAY-24, within holding, analyzed 27-AUG-24, out of holding 13-JUN-24 and Received 24-MAY-24, within holding, prepped 26-AUG-24, out of holding 13-JUN-24
1205833083 (Non SDG 668928002MS)	Received 24-MAY-24, within holding, analyzed 27-AUG-24, out of holding 13-JUN-24 and Received 24-MAY-24, within holding, prepped 26-AUG-24, out of holding 13-JUN-24
1205833084 (Non SDG 668928002SDILT)	Received 24-MAY-24, within holding, analyzed 27-AUG-24, out of holding 13-JUN-24 and Received 24-MAY-24, within holding, prepped 26-AUG-24, out of holding 13-JUN-24

Certification Statement

Where the analytical method has been performed under NELAP certification, the analysis has met all of the requirements of the NELAC standard unless otherwise noted in the analytical case narrative.

Page: 1 of 1
Project #
GEL Quote #:
COC Number (1):
PO Number: GPC82177-0004

GEL Laboratories LLC
gel.com
Chemistry | Radiochemistry | Radiobioassay | Specialty Analytics

682336

Chain of Custody and Analytical Request

GEL Work Order Number:

GEL Project Manager: Erin Trent

GEL Laboratories, LLC
2040 Savage Road
Charleston, SC 29407
Phone: (843) 556-8171
Fax: (843) 766-1178

Client Name: GA Power — Phone # 404-506-7116
Project/Site Name: Plant Kraft - Grumman Road Landfill — Fax #
Address: 241 Ralph McGill Blvd SE, Atlanta GA 30308
Collected By: ACC — Send Results To: SCS & ACC Contacts

Sample Analysis Requested (5) (Fill in the number of containers for each test)

Sample ID * For composites - indicate start and stop date/time	*Date Collected (mm-dd-yy)	*Time Collected (Military) (hhmm)	QC Code (2)	Field Filtered (3)	Sample Matrix (4)	Should this sample be considered: Radioactive (If yes, please supply isotopic info.)	Should this sample be considered: (7) Known or possible Hazards	Total number of containers	Dissolved Metals * EPA 6020, 6010, 7470	NI	<-- Preservative Type (6)	Comments
KRA- GWB-5R	08-21-24	1812	G	Y	WG	N	N	X 1	✓			field-filtered

Comments: Note: extra sample is required for sample specific QC
Task_Code: KRA-CCR-ASSMT-2024S2

Chain of Custody Signatures

Relinquished By (Signed)	Date	Time	Received by (signed)	Date	Time
1	8-22-24	1354		8/23/24	1354
2			2		
3			3		

TAT Requested: Normal: x Rush: ____ Specify: ____ (Subject to Surcharge)

Fax Results: [ ] Yes [x] No

Select Deliverable: [ ] C of A [ ] QC Summary [ ] level 1 [x] Level 2 [ ] Level 3 [ ] Level 4

Additional Remarks: * **Metals: B,Ca,Sb,As,Ba,Be,Cd,Cr,Co,Pb,Li,Mo,Se,Tl,V,Zn,Hg**

For Lab Receiving Use Only: *Custody Seal Intact?* [ ] *Yes* [ ] *No* *Cooler Temp:* 6 °C

> *For sample shipping and delivery details, see Sample Receipt & Review form (SRR.)*

Sample Collection Time Zone: [x] Eastern [ ] Pacific [ ] Central [ ] Mountain [ ] Other:

1.) Chain of Custody Number = Client Determined

2.) QC Codes: **N** = Normal Sample, **TB** = Trip Blank, **FD** = Field Duplicate, **EB** = Equipment Blank, **MS** = Matrix Spike Sample, **MSD** = Matrix Spike Duplicate Sample, **G** = Grab, **C** = Composite

3.) Field Filtered: For liquid matrices, indicate with a - **Y** - for yes the sample was field filtered or - **N** - for sample was not field filtered.

4.) Matrix Codes: **WD**=Drinking Water, **WG**=Groundwater, **WS**=Surface Water, **WW**=Waste Water, **WL**=Leachate, **SO**=Soil, **SE**=Sediment, **SL**=Sludge, **WQ**=Water Quality Control Matrix

5.) Sample Analysis Requested: Analytical method requested (i.e. **8260B**, **6010B/7470A**) and number of containers provided for each (i.e. *8260B* - **3**, *6010B/7470A* - **1**).

6.) Preservative Type: **HA** = Hydrochloric Acid, **NI** = Nitric Acid, **SH** = Sodium Hydroxide, **SA** = Sulfuric Acid, **AA** = Ascorbic Acid, **HX** = Hexane, **ST** = Sodium Thiosulfate, If no preservative is added = leave field blank

7.) KNOWN OR POSSIBLE HAZARDS

RCRA Metals
As = Arsenic **Hg**= Mercury
Ba = Barium **Se**= Selenium
Cd = Cadmium **Ag**= Silver
Cr = Chromium **MR**= Misc. RCRA metals
Pb = Lead

Characteristic Hazards
FL = Flammable/Ignitable
CO = Corrosive
RE = Reactive

TSCA Regulated
PCB = Polychlorinated biphenyls

Listed Waste
LW= Listed Waste
(F,K,P and U-listed wastes.)
Waste code(s):

Other
OT= Other / Unknown
(i.e.: High/low pH, asbestos, beryllium, irritants, other misc. health hazards, etc.)
Description:

Please provide any additional details below regarding handling and/or disposal concerns. *(i.e.: Origin of sample(s), type of site collected from, odd matrices, etc.)*

WO 8/23/24 | 682230
~~682233~~ | 682336
682335

GEL Laboratories LLC

SAMPLE RECEIPT & REVIEW FORM

Client: GPCC	SDG/AR/COC/Work Order:
Received By: EG	Date Received: 8/22/24
Carrier and Tracking Number	Circle Applicable: FedEx Express FedEx Ground UPS Field Services Courier (Other)

Suspected Hazard Information	Yes	No	*If Net Counts > 100cpm on samples not marked "radioactive", contact the Radiation Safety Group for further investigation.
A)Shipped as a DOT Hazardous?		✓	Hazard Class Shipped: UN#: If UN2910, Is the Radioactive Shipment Survey Compliant? Yes___ No___
B) Did the client designate the samples are to be received as radioactive?		✓	COC notation or radioactive stickers on containers equal client designation.
C) Did the RSO classify the samples as radioactive?		✓	Maximum Net Counts Observed* (Observed Counts - Area Background Counts): 0 (0) CPM / mR/Hr Classified as: Rad 1 Rad 2 Rad 3
D) Did the client designate samples are hazardous?		✓	COC notation or hazard labels on containers equal client designation.
E) Did the RSO identify possible hazards?		✓	If D or E is yes, select Hazards below. PCB's Flammable Foreign Soil RCRA Asbestos Beryllium Other:

	Sample Receipt Criteria	Yes	NA	No	Comments/Qualifiers (Required for Non-Conforming Items)
1	Shipping containers received intact and sealed?	✓			Circle Applicable: Seals broken Damaged container Leaking container Other (describe)
2	Chain of custody documents included with shipment?	✓			Circle Applicable: Client contacted and provided COC COC created upon receipt
3	Samples requiring cold preservation within (0 ≤ 6 deg. C)?*	✓			Preservation Method: (Wet Ice) Ice Packs Dry ice None Other: *all temperatures are recorded in Celsius TEMP: 0
4	Daily check performed and passed on IR temperature gun?	✓			Temperature Device Serial #: IR2-24 Secondary Temperature Device Serial # (If Applicable):
5	Sample containers intact and sealed?	✓			Circle Applicable: Seals broken Damaged container Leaking container Other (describe)
6	Samples requiring chemical preservation at proper pH?	✓			Sample ID's and Containers Affected: If Preservation added, Lot#:
7	Do any samples require Volatile Analysis?			✓	If Yes, are Encores or Soil Kits present for solids? Yes___ No___ NA___(If yes, take to VOA Freezer) Do liquid VOA vials contain acid preservation? Yes___ No___ NA___(If unknown, select No) Are liquid VOA vials free of headspace? Yes___ No___ NA___ Sample ID's and containers affected:
8	Samples received within holding time?	✓			ID's and tests affected:
9	Sample ID's on COC match ID's on bottles?	✓			ID's and containers affected:
10	Date & time on COC match date & time on bottles?	✓			Circle Applicable: No dates on containers No times on containers COC missing info Other (describe)
11	Number of containers received match number indicated on COC?	✓			Circle Applicable: No container count on COC Other (describe)
12	Are sample containers identifiable as GEL provided by use of GEL labels?			✓	
13	COC form is properly signed in relinquished/received sections?	✓			Circle Applicable: Not relinquished Other (describe)

Comments (Use Continuation Form if needed):

PM (or PMA) review: Initials WJ Date 8/23/24 Page 1 of 1

GL-CHL-SR-001 Rev 7

List of current GEL Certifications as of 06 September 2024

State	Certification
Alabama	42200
Alaska	17-018
Alaska Drinking Water	SC00012
Arkansas	88-00651
CLIA	42D0904046
California	2940
Colorado	SC00012
Connecticut	PH-0169
DoD ELAP/ ISO17025 A2LA	2567.01
Florida NELAP	E87156
Foreign Soils Permit	P330-15-00283, P330-15-00253
Georgia	SC00012
Georgia SDWA	967
Hawaii	SC00012
Idaho	SC00012
Illinois NELAP	200029
Indiana	C-SC-01
Kansas NELAP	E-10332
Kentucky SDWA	KY90129
Kentucky Wastewater	KY90129
Louisiana Drinking Water	LA024
Louisiana NELAP	03046 (AI33904)
Maine	2023019
Maryland	270
Massachusetts	M-SC012
Massachusetts PFAS Approv	Letter
Michigan	9976
Mississippi	SC00012
Nebraska	NE-OS-26-13
Nevada	NV-C24-00175
New Hampshire NELAP	205424
New Jersey NELAP	SC002
New Mexico	SC00012
New York NELAP	11501
North Carolina	233
North Carolina SDWA	45709
North Dakota	R-158
Oklahoma	2023-152
Pennsylvania NELAP	68-00485
Puerto Rico	SC00012
S. Carolina Radiochem	10120002
Sanitation Districts of L	9255651
South Carolina Chemistry	10120001
Tennessee	TN 02934
Texas NELAP	T104704235
Utah NELAP	SC000122024-41
Vermont	VT87156
Virginia NELAP	460202
Washington	C780

GEL Laboratories LLC
a member of The GEL Group INC

2040 Savage Road | Charleston, SC 29407
843.556.8171
gel.com

October 03, 2024

Kristen Jurinko
Georgia Power Company
241 Ralph McGill Blvd NE
Bin 10160
Atlanta, Georgia 30308

Re: Kraft - Grumman Road Landfill CCR Groundwater Compliance
Work Order: 682059

Dear Kristen Jurinko:

GEL Laboratories, LLC (GEL) appreciates the opportunity to provide the enclosed analytical results for the sample(s) we received on August 21, 2024. This revised data report has been prepared and reviewed in accordance with GEL's standard operating procedures. This report replaces the original version which is noted as SDG number 682059 in the left-hand footer of the data report. The revised package includes a Chain of Custody revision in which several samples were received by the lab but had all analyses canceled per consultant request.

The samples were delivered with proper chain of custody documentation and signatures. All sample containers arrived without any visible signs of tampering or breakage. There are no additional comments concerning sample receipt. The laboratory received the following sample(s):

Laboratory ID	Client ID	Matrix	Date Collected	Date Received
682059001	KRA-GWA-7	Ground Water	08/19/24 16:35	08/21/24 11:00
682059002	KRA-GWA-8	Ground Water	08/19/24 16:23	08/21/24 11:00
682059003	KRA-GWB-6R	Ground Water	08/20/24 09:33	08/21/24 11:00
682059004	KRA-GWB-4R	Ground Water	08/20/24 11:27	08/21/24 11:00
682059005	KRA-GWC-21	Ground Water	08/20/24 09:53	08/21/24 11:00
682059006	KRA-GWC-16	Ground Water	08/20/24 12:03	08/21/24 11:00
682059007	KRA-MW-26D	Ground Water	08/20/24 13:17	08/21/24 11:00
682059008	KRA-MW-24D	Ground Water	08/20/24 13:12	08/21/24 11:00
682059009	KRA-GWC-1	Ground Water	08/20/24 14:41	08/21/24 11:00
682059010	KRA-GWC-15	Ground Water	08/20/24 14:45	08/21/24 11:00
682059011	KRA-GWC-17	Ground Water	08/20/24 15:56	08/21/24 11:00
682059012	KRA-GRL-FD-01	Ground Water	08/20/24 12:00	08/21/24 11:00
682059013	KRA-GRL-FD-02	Ground Water	08/20/24 12:00	08/21/24 11:00
682059014	KRA-GRL-FB-01	Ground Water	08/20/24 10:30	08/21/24 11:00
682059015	KRA-GRL-EB-04	Ground Water	08/20/24 13:50	08/21/24 11:00

Test results for NELAP or ISO 17025 accredited tests are verified to meet the requirements of those standards, with any exceptions noted. The results reported relate only to the items tested and to the sample as received by the laboratory. These results may not be reproduced except as full reports without approval by the laboratory. Copies of GEL's accreditations and certifications can be found on our website at www.gel.com.

Prep Methods and Prep Dates

Not Applicable

Analysis Methods and Analysis Dates

Method	Run Date ID
Calculation	19-SEP-2024
EPA 903.1 Modified	18-SEP-2024
EPA 903.1 Modified	19-SEP-2024
EPA 904.0/SW846 9320 Modified	16-SEP-2024

Our policy is to provide high quality, personalized analytical services to enable you to meet your analytical needs on time every time. We trust that you will find everything in order and to your satisfaction. If you have any questions, please do not hesitate to call me at (843) 556-8171, ext. 4443.

Sincerely,

Alaina Pinnick

Alaina Pinnick
Project Manager

Purchase Order: GPC82177-0004
Enclosures

GEL LABORATORIES LLC
2040 Savage Road Charleston SC 29407 - (843) 556-8171 - www.gel.com

Certificate of Analysis Report
for

GPCC001 Georgia Power Company

Client SDG: 682059 GEL Work Order: 682059

The Qualifiers in this report are defined as follows:

* A quality control analyte recovery is outside of specified acceptance criteria

** Analyte is a Tracer compound

** Analyte is a surrogate compound

U Analyte was analyzed for, but not detected above the MDL, MDA, MDC or LOD.

Where the analytical method has been performed under NELAP certification, the analysis has met all of the requirements of the NELAC standard unless qualified on the Certificate of Analysis.

The designation ND, if present, appears in the result column when the analyte concentration is not detected above the limit as defined in the 'U' qualifier above.

This data report has been prepared and reviewed in accordance with GEL Laboratories LLC standard operating procedures. Please direct any questions to your Project Manager, Alaina Pinnick.

Reviewed by Alaina Pinnick

GEL LABORATORIES LLC
2040 Savage Road Charleston SC 29407 - (843) 556-8171 - www.gel.com

Certificate of Analysis

Company : Georgia Power Company
Address : 241 Ralph McGill Blvd NE
Bin 10160
Atlanta, Georgia 30308

Report Date: October 3, 2024

Contact: Kristen Jurinko
Project: Kraft - Grumman Road Landfill CCR Groundwater Compliance

Client Sample ID: KRA-GWA-7
Sample ID: 682059001
Matrix: WG
Collect Date: 19-AUG-24
Receive Date: 21-AUG-24
Collector: Client

Project: GPCC00102
Client ID: GPCC001

Parameter	Qualifier	Result	Uncertainty	MDC	TPU	RL	Units	PF	DF	Analyst	Date	Time	Batch	Mtd.
Rad Gas Flow Proportional Counting														
GFPC Ra228, Liquid "As Received"														
Radium-228	U	1.31	+/-1.03	1.62	+/-1.09	3.00	pCi/L			KP1	09/16/24	1408	2661772	1
Radium-226+Radium-228 Calculation "See Parent Products"														
Radium-226+228 Sum		3.16	+/-1.16	1.62	+/-1.25		pCi/L		1	NXL1	09/19/24	1128	2665084	2
Rad Radium-226														
Lucas Cell, Ra226, Liquid "As Received"														
Radium-226		1.86	+/-0.519	0.484	+/-0.617	1.00	pCi/L			MJ2	09/18/24	0932	2661719	3

The following Analytical Methods were performed

Method	Description
1	EPA 904.0/SW846 9320 Modified
2	Calculation
3	EPA 903.1 Modified

Surrogate/Tracer Recovery	Test	Batch ID	Recovery%	Acceptable Limits
Barium-133 Tracer	GFPC Ra228, Liquid "As Received"	2661772	85.7	(15%-125%)

Notes:

The MDC is a sample specific MDC.
TPU and Counting Uncertainty are calculated at the 95% confidence level (1.96-sigma).

Column headers are defined as follows:

DF: Dilution Factor
DL: Detection Limit
Lc/LC: Critical Level
MDA: Minimum Detectable Activity
MDC: Minimum Detectable Concentration
Mtd.: Method
PF: Prep Factor
RL: Reporting Limit
TPU: Total Propagated Uncertainty

GEL LABORATORIES LLC
2040 Savage Road Charleston SC 29407 - (843) 556-8171 - www.gel.com

Certificate of Analysis

Company : Georgia Power Company
Address : 241 Ralph McGill Blvd NE
Bin 10160
Atlanta, Georgia 30308

Report Date: October 3, 2024

Contact: Kristen Jurinko

Project: Kraft - Grumman Road Landfill CCR Groundwater Compliance

Client Sample ID: KRA-GWB-6R
Sample ID: 682059003
Matrix: WG
Collect Date: 20-AUG-24
Receive Date: 21-AUG-24
Collector: Client

Project: GPCC00102
Client ID: GPCC001

Parameter	Qualifier	Result	Uncertainty	MDC	TPU	RL	Units	PF	DF	Analyst	Date	Time	Batch	Mtd.
Rad Gas Flow Proportional Counting														
GFPC Ra228, Liquid "As Received"														
Radium-228		3.66	+/-1.34	1.71	+/-1.64	3.00	pCi/L			KP1	09/16/24	1408	2661772	1
Radium-226+Radium-228 Calculation "See Parent Products"														
Radium-226+228 Sum		6.12	+/-1.43	1.71	+/-1.76		pCi/L		1	NXL1	09/19/24	1128	2665084	2
Rad Radium-226														
Lucas Cell, Ra226, Liquid "As Received"														
Radium-226		2.46	+/-0.514	0.209	+/-0.637	1.00	pCi/L			MJ2	09/18/24	1010	2661719	3

The following Analytical Methods were performed

Method	Description
1	EPA 904.0/SW846 9320 Modified
2	Calculation
3	EPA 903.1 Modified

Surrogate/Tracer Recovery	Test	Batch ID	Recovery%	Acceptable Limits
Barium-133 Tracer	GFPC Ra228, Liquid "As Received"	2661772	89.1	(15%-125%)

Notes:

The MDC is a sample specific MDC.
TPU and Counting Uncertainty are calculated at the 95% confidence level (1.96-sigma).

Column headers are defined as follows:

DF: Dilution Factor
DL: Detection Limit
Lc/LC: Critical Level
MDA: Minimum Detectable Activity
MDC: Minimum Detectable Concentration
Mtd.: Method
PF: Prep Factor
RL: Reporting Limit
TPU: Total Propagated Uncertainty

GEL LABORATORIES LLC
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Certificate of Analysis

Company : Georgia Power Company
Address : 241 Ralph McGill Blvd NE
Bin 10160
Atlanta, Georgia 30308

Report Date: October 3, 2024

Contact: Kristen Jurinko

Project: Kraft - Grumman Road Landfill CCR Groundwater Compliance

Client Sample ID: KRA-GWB-4R
Sample ID: 682059004
Matrix: WG
Collect Date: 20-AUG-24
Receive Date: 21-AUG-24
Collector: Client

Project: GPCC00102
Client ID: GPCC001

Parameter	Qualifier	Result	Uncertainty	MDC	TPU	RL	Units	PF	DF	Analyst	Date	Time	Batch	Mtd.
Rad Gas Flow Proportional Counting														
GFPC Ra228, Liquid "As Received"														
Radium-228		4.24	+/-1.33	1.49	+/-1.72	3.00	pCi/L			KP1	09/16/24	1408	2661772	1
Radium-226+Radium-228 Calculation "See Parent Products"														
Radium-226+228 Sum		7.26	+/-1.46	1.49	+/-1.96		pCi/L		1	NXL1	09/19/24	1128	2665084	2
Rad Radium-226														
Lucas Cell, Ra226, Liquid "As Received"														
Radium-226		3.01	+/-0.600	0.381	+/-0.931	1.00	pCi/L			MJ2	09/18/24	1010	2661719	3

The following Analytical Methods were performed

Method	Description
1	EPA 904.0/SW846 9320 Modified
2	Calculation
3	EPA 903.1 Modified

Surrogate/Tracer Recovery	Test	Batch ID	Recovery%	Acceptable Limits
Barium-133 Tracer	GFPC Ra228, Liquid "As Received"	2661772	87.1	(15%-125%)

Notes:

The MDC is a sample specific MDC.
TPU and Counting Uncertainty are calculated at the 95% confidence level (1.96-sigma).

Column headers are defined as follows:

DF: Dilution Factor
DL: Detection Limit
Lc/LC: Critical Level
MDA: Minimum Detectable Activity
MDC: Minimum Detectable Concentration
Mtd.: Method
PF: Prep Factor
RL: Reporting Limit
TPU: Total Propagated Uncertainty

GEL LABORATORIES LLC
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Certificate of Analysis

Company : Georgia Power Company
Address : 241 Ralph McGill Blvd NE
Bin 10160
Atlanta, Georgia 30308

Report Date: October 3, 2024

Contact: Kristen Jurinko

Project: Kraft - Grumman Road Landfill CCR Groundwater Compliance

Client Sample ID: KRA-MW-26D
Sample ID: 682059007
Matrix: WG
Collect Date: 20-AUG-24
Receive Date: 21-AUG-24
Collector: Client

Project: GPCC00102
Client ID: GPCC001

Parameter	Qualifier	Result	Uncertainty	MDC	TPU	RL	Units	PF	DF	Analyst	Date	Time	Batch	Mtd.
Rad Gas Flow Proportional Counting														
GFPC Ra228, Liquid "As Received"														
Radium-228	U	1.18	+/-0.985	1.56	+/-1.03	3.00	pCi/L			KP1	09/16/24	1408	2661772	1
Radium-226+Radium-228 Calculation "See Parent Products"														
Radium-226+228 Sum		1.84	+/-1.05	1.56	+/-1.11		pCi/L		1	NXL1	09/19/24	1128	2665084	2
Rad Radium-226														
Lucas Cell, Ra226, Liquid "As Received"														
Radium-226		0.654	+/-0.375	0.354	+/-0.399	1.00	pCi/L			MJ2	09/19/24	0808	2661722	3

The following Analytical Methods were performed

Method	Description
1	EPA 904.0/SW846 9320 Modified
2	Calculation
3	EPA 903.1 Modified

Surrogate/Tracer Recovery	Test	Batch ID	Recovery%	Acceptable Limits
Barium-133 Tracer	GFPC Ra228, Liquid "As Received"	2661772	82.2	(15%-125%)

Notes:

The MDC is a sample specific MDC.
TPU and Counting Uncertainty are calculated at the 95% confidence level (1.96-sigma).

Column headers are defined as follows:

DF: Dilution Factor
DL: Detection Limit
Lc/LC: Critical Level
MDA: Minimum Detectable Activity
MDC: Minimum Detectable Concentration
Mtd.: Method
PF: Prep Factor
RL: Reporting Limit
TPU: Total Propagated Uncertainty

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Certificate of Analysis

Company : Georgia Power Company
Address : 241 Ralph McGill Blvd NE
Bin 10160
Atlanta, Georgia 30308

Report Date: October 3, 2024

Contact: Kristen Jurinko

Project: Kraft - Grumman Road Landfill CCR Groundwater Compliance

Client Sample ID: KRA-GWC-1
Sample ID: 682059009
Matrix: WG
Collect Date: 20-AUG-24
Receive Date: 21-AUG-24
Collector: Client

Project: GPCC00102
Client ID: GPCC001

Parameter	Qualifier	Result	Uncertainty	MDC	TPU	RL	Units	PF	DF	Analyst	Date	Time	Batch	Mtd.
Rad Gas Flow Proportional Counting														
GFPC Ra228, Liquid "As Received"														
Radium-228	U	-0.489	+/-0.828	1.73	+/-0.829	3.00	pCi/L			KP1	09/16/24	1408	2661772	1
Radium-226+Radium-228 Calculation "See Parent Products"														
Radium-226+228 Sum	U	0.492	+/-0.884	1.73	+/-0.889		pCi/L		1	NXL1	09/19/24	1128	2665084	2
Rad Radium-226														
Lucas Cell, Ra226, Liquid "As Received"														
Radium-226		0.492	+/-0.308	0.274	+/-0.323	1.00	pCi/L			MJ2	09/19/24	0808	2661722	3

The following Analytical Methods were performed

Method	Description
1	EPA 904.0/SW846 9320 Modified
2	Calculation
3	EPA 903.1 Modified

Surrogate/Tracer Recovery	Test	Batch ID	Recovery%	Acceptable Limits
Barium-133 Tracer	GFPC Ra228, Liquid "As Received"	2661772	95.4	(15%-125%)

Notes:

The MDC is a sample specific MDC.
TPU and Counting Uncertainty are calculated at the 95% confidence level (1.96-sigma).

Column headers are defined as follows:

DF: Dilution Factor
DL: Detection Limit
Lc/LC: Critical Level
MDA: Minimum Detectable Activity
MDC: Minimum Detectable Concentration
Mtd.: Method
PF: Prep Factor
RL: Reporting Limit
TPU: Total Propagated Uncertainty

GEL LABORATORIES LLC
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Certificate of Analysis

Company : Georgia Power Company
Address : 241 Ralph McGill Blvd NE
Bin 10160
Atlanta, Georgia 30308

Report Date: October 3, 2024

Contact: Kristen Jurinko

Project: Kraft - Grumman Road Landfill CCR Groundwater Compliance

Client Sample ID: KRA-GRL-FD-02
Sample ID: 682059013
Matrix: WG
Collect Date: 20-AUG-24
Receive Date: 21-AUG-24
Collector: Client

Project: GPCC00102
Client ID: GPCC001

Parameter	Qualifier	Result	Uncertainty	MDC	TPU	RL	Units	PF	DF	Analyst	Date	Time	Batch	Mtd.
Rad Gas Flow Proportional Counting														
GFPC Ra228, Liquid "As Received"														
Radium-228	U	-0.128	+/-0.706	1.42	+/-0.706	3.00	pCi/L			KP1	09/16/24	1408	2661772	1
Radium-226+Radium-228 Calculation "See Parent Products"														
Radium-226+228 Sum	U	0.306	+/-0.783	1.42	+/-0.786		pCi/L		1	NXL1	09/19/24	1128	2665084	2
Rad Radium-226														
Lucas Cell, Ra226, Liquid "As Received"														
Radium-226	U	0.306	+/-0.340	0.533	+/-0.345	1.00	pCi/L			MJ2	09/19/24	0808	2661722	3

The following Analytical Methods were performed

Method	Description
1	EPA 904.0/SW846 9320 Modified
2	Calculation
3	EPA 903.1 Modified

Surrogate/Tracer Recovery	Test	Batch ID	Recovery%	Acceptable Limits
Barium-133 Tracer	GFPC Ra228, Liquid "As Received"	2661772	91.8	(15%-125%)

Notes:

The MDC is a sample specific MDC.
TPU and Counting Uncertainty are calculated at the 95% confidence level (1.96-sigma).

Column headers are defined as follows:

DF: Dilution Factor
DL: Detection Limit
Lc/LC: Critical Level
MDA: Minimum Detectable Activity
MDC: Minimum Detectable Concentration
Mtd.: Method
PF: Prep Factor
RL: Reporting Limit
TPU: Total Propagated Uncertainty

GEL LABORATORIES LLC
2040 Savage Road Charleston SC 29407 - (843) 556-8171 - www.gel.com

Certificate of Analysis

Company : Georgia Power Company
Address : 241 Ralph McGill Blvd NE
Bin 10160
Atlanta, Georgia 30308

Report Date: October 3, 2024

Contact: Kristen Jurinko

Project: Kraft - Grumman Road Landfill CCR Groundwater Compliance

Client Sample ID: KRA-GRL-FB-01
Sample ID: 682059014
Matrix: WQ
Collect Date: 20-AUG-24
Receive Date: 21-AUG-24
Collector: Client

Project: GPCC00102
Client ID: GPCC001

Parameter	Qualifier	Result	Uncertainty	MDC	TPU	RL	Units	PF	DF	Analyst	Date	Time	Batch	Mtd.
Rad Gas Flow Proportional Counting														
GFPC Ra228, Liquid "As Received"														
Radium-228	U	-0.308	+/-1.02	2.02	+/-1.02	3.00	pCi/L			KP1	09/16/24	1408	2661772	1
Radium-226+Radium-228 Calculation "See Parent Products"														
Radium-226+228 Sum	U	0.161	+/-1.04	2.02	+/-1.04		pCi/L		1	NXL1	09/19/24	1128	2665084	2
Rad Radium-226														
Lucas Cell, Ra226, Liquid "As Received"														
Radium-226	U	0.161	+/-0.216	0.365	+/-0.219	1.00	pCi/L			MJ2	09/19/24	0808	2661722	3

The following Analytical Methods were performed

Method	Description
1	EPA 904.0/SW846 9320 Modified
2	Calculation
3	EPA 903.1 Modified

Surrogate/Tracer Recovery	Test	Batch ID	Recovery%	Acceptable Limits
Barium-133 Tracer	GFPC Ra228, Liquid "As Received"	2661772	79.9	(15%-125%)

Notes:

The MDC is a sample specific MDC.
TPU and Counting Uncertainty are calculated at the 95% confidence level (1.96-sigma).

Column headers are defined as follows:

DF: Dilution Factor
DL: Detection Limit
Lc/LC: Critical Level
MDA: Minimum Detectable Activity
MDC: Minimum Detectable Concentration
Mtd.: Method
PF: Prep Factor
RL: Reporting Limit
TPU: Total Propagated Uncertainty

GEL LABORATORIES LLC
2040 Savage Road Charleston SC 29407 - (843) 556-8171 - www.gel.com

Certificate of Analysis

Company : Georgia Power Company
Address : 241 Ralph McGill Blvd NE
Bin 10160
Atlanta, Georgia 30308

Report Date: October 3, 2024

Contact: Kristen Jurinko
Project: Kraft - Grumman Road Landfill CCR Groundwater Compliance

Client Sample ID: KRA-GRL-EB-04
Sample ID: 682059015
Matrix: WQ
Collect Date: 20-AUG-24
Receive Date: 21-AUG-24
Collector: Client

Project: GPCC00102
Client ID: GPCC001

Parameter	Qualifier	Result	Uncertainty	MDC	TPU	RL	Units	PF	DF	Analyst	Date	Time	Batch	Mtd.
Rad Gas Flow Proportional Counting														
GFPC Ra228, Liquid "As Received"														
Radium-228	U	1.28	+/-1.43	2.40	+/-1.47	3.00	pCi/L			KP1	09/16/24	1408	2661772	1
Radium-226+Radium-228 Calculation "See Parent Products"														
Radium-226+228 Sum	U	1.53	+/-1.48	2.40	+/-1.52		pCi/L		1	NXL1	09/19/24	1128	2665084	2
Rad Radium-226														
Lucas Cell, Ra226, Liquid "As Received"														
Radium-226	U	0.253	+/-0.393	0.700	+/-0.395	1.00	pCi/L			MJ2	09/19/24	0808	2661722	3

The following Analytical Methods were performed

Method	Description
1	EPA 904.0/SW846 9320 Modified
2	Calculation
3	EPA 903.1 Modified

Surrogate/Tracer Recovery	Test	Batch ID	Recovery%	Acceptable Limits
Barium-133 Tracer	GFPC Ra228, Liquid "As Received"	2661772	83.7	(15%-125%)

Notes:

The MDC is a sample specific MDC.
TPU and Counting Uncertainty are calculated at the 95% confidence level (1.96-sigma).

Column headers are defined as follows:

DF: Dilution Factor
DL: Detection Limit
Lc/LC: Critical Level
MDA: Minimum Detectable Activity
MDC: Minimum Detectable Concentration
Mtd.: Method
PF: Prep Factor
RL: Reporting Limit
TPU: Total Propagated Uncertainty

Radiochemistry
Technical Case Narrative
Georgia Power Company
SDG #: 682059

Product: **Radium-226+Radium-228 Calculation**
Analytical Method: Calculation
Analytical Procedure: GL-RAD-D-003 REV# 45
Analytical Batch: 2665084

The following samples were analyzed using the above methods and analytical procedure(s).

GEL Sample ID#	Client Sample Identification
682059001	KRA-GWA-7
682059003	KRA-GWB-6R
682059004	KRA-GWB-4R
682059007	KRA-MW-26D
682059009	KRA-GWC-1
682059013	KRA-GRL-FD-02
682059014	KRA-GRL-FB-01
682059015	KRA-GRL-EB-04

Data Summary:

There are no exceptions, anomalies or deviations from the specified methods. All sample data provided in this report met the acceptance criteria specified in the analytical methods and procedures for initial calibration, continuing calibration, instrument controls and process controls where applicable.

Product: **GFPC Ra228, Liquid**
Analytical Method: EPA 904.0/SW846 9320 Modified
Analytical Procedure: GL-RAD-A-063 REV# 5
Analytical Batch: 2661772

The following samples were analyzed using the above methods and analytical procedure(s).

GEL Sample ID#	Client Sample Identification
682059001	KRA-GWA-7
682059003	KRA-GWB-6R
682059004	KRA-GWB-4R
682059007	KRA-MW-26D
682059009	KRA-GWC-1
682059013	KRA-GRL-FD-02
682059014	KRA-GRL-FB-01
682059015	KRA-GRL-EB-04
1205832448	Method Blank (MB)
1205832449	682059001(KRA-GWA-7) Sample Duplicate (DUP)
1205832450	Laboratory Control Sample (LCS)

The samples in this SDG were analyzed on an "as received" basis.

Data Summary:

All sample data provided in this report met the acceptance criteria specified in the analytical methods and procedures for initial calibration, continuing calibration, instrument controls and process controls where applicable, with the following exceptions.

Preparation Information

Homogenous Matrix
Samples 1205832449 (KRA-GWA-7DUP), 682059001 (KRA-GWA-7), 682059003 (KRA-GWB-6R), 682059004 (KRA-GWB-4R), 682059009 (KRA-GWC-1) and 682059013 (KRA-GRL-FD-02) were non-homogenous matrix. various shades of yellow water with residues 1205832449 (KRA-GWA-7DUP), 682059001 (KRA-GWA-7), 682059003 (KRA-GWB-6R), 682059004 (KRA-GWB-4R), 682059009 (KRA-GWC-1) and 682059013 (KRA-GRL-FD-02).

Product: **Lucas Cell, Ra226, Liquid**
Analytical Method: EPA 903.1 Modified
Analytical Procedure: GL-RAD-A-008 REV# 15
Analytical Batch: 2661719

The following samples were analyzed using the above methods and analytical procedure(s).

GEL Sample ID#	Client Sample Identification
682059001	KRA-GWA-7
682059003	KRA-GWB-6R
682059004	KRA-GWB-4R
1205832284	Method Blank (MB)
1205832285	682059001(KRA-GWA-7) Sample Duplicate (DUP)
1205832286	682059001(KRA-GWA-7) Matrix Spike (MS)
1205832287	Laboratory Control Sample (LCS)

The samples in this SDG were analyzed on an "as received" basis.

Data Summary:

All sample data provided in this report met the acceptance criteria specified in the analytical methods and procedures for initial calibration, continuing calibration, instrument controls and process controls where applicable, with the following exceptions.

Miscellaneous Information

Additional Comments
The matrix spike, 1205832286 (KRA-GWA-7MS), aliquot was reduced to conserve sample volume.

Product: **Lucas Cell, Ra226, Liquid**
Analytical Method: EPA 903.1 Modified
Analytical Procedure: GL-RAD-A-008 REV# 15
Analytical Batch: 2661722

The following samples were analyzed using the above methods and analytical procedure(s).

GEL Sample ID#	Client Sample Identification
682059007	KRA-MW-26D
682059009	KRA-GWC-1
682059013	KRA-GRL-FD-02
682059014	KRA-GRL-FB-01
682059015	KRA-GRL-EB-04
1205832291	Method Blank (MB)
1205832292	682059007(KRA-MW-26D) Sample Duplicate (DUP)
1205832293	682059007(KRA-MW-26D) Matrix Spike (MS)
1205832294	Laboratory Control Sample (LCS)

The samples in this SDG were analyzed on an "as received" basis.

Data Summary:

All sample data provided in this report met the acceptance criteria specified in the analytical methods and procedures for initial calibration, continuing calibration, instrument controls and process controls where applicable, with the following exceptions.

Miscellaneous Information

Additional Comments
The matrix spike, 1205832293 (KRA-MW-26DMS), aliquot was reduced to conserve sample volume.

Certification Statement

Where the analytical method has been performed under NELAP certification, the analysis has met all of the requirements of the NELAC standard unless otherwise noted in the analytical case narrative.

QC Summary

Client : **Georgia Power Company**
241 Ralph McGill Blvd NE
Bin 10160
Atlanta, Georgia

Contact: **Kristen Jurinko**

Workorder: **682059**

Report Date: October 3, 2024

Parmname	NOM	Sample	Qual	QC	Units	RPD%	REC%	Range	Anlst	Date Time
Rad Gas Flow										
Batch 2661772										
QC1205832449 682059001 DUP										
Radium-228	U	1.31	U	1.94	pCi/L	0		N/A	KP1	09/16/2414:08
	Uncert:	+/-1.03		+/-1.30						
	TPU:	+/-1.09		+/-1.39						
QC1205832450 LCS										
Radium-228	69.2			71.3	pCi/L		103	(75%-125%)	KP1	09/16/2414:08
	Uncert:			+/-4.65						
	TPU:			+/-19.1						
QC1205832448 MB										
Radium-228			U	0.909	pCi/L				KP1	09/16/2414:08
	Uncert:			+/-1.25						
	TPU:			+/-1.27						
Rad Ra-226										
Batch 2661719										
QC1205832285 682059001 DUP										
Radium-226		1.86		1.85	pCi/L	.352		(0% - 100%)	MJ2	09/18/2411:18
	Uncert:	+/-0.519		+/-0.524						
	TPU:	+/-0.617		+/-0.623						
QC1205832287 LCS										
Radium-226	27.1			24.1	pCi/L		88.7	(75%-125%)	MJ2	09/18/2411:18
	Uncert:			+/-1.64						
	TPU:			+/-4.66						
QC1205832284 MB										
Radium-226			U	0.274	pCi/L				MJ2	09/18/2411:18
	Uncert:			+/-0.231						
	TPU:			+/-0.236						
QC1205832286 682059001 MS										
Radium-226	128	1.86		121	pCi/L		93	(75%-125%)	MJ2	09/18/2411:18
	Uncert:	+/-0.519		+/-7.58						
	TPU:	+/-0.617		+/-20.9						
Batch 2661722										
QC1205832292 682059007 DUP										
Radium-226		0.654		0.666	pCi/L	1.82		(0% - 100%)	MJ2	09/19/2409:19
	Uncert:	+/-0.375		+/-0.384						
	TPU:	+/-0.399		+/-0.408						
QC1205832294 LCS										
Radium-226	27.1			22.8	pCi/L		84.1	(75%-125%)	MJ2	09/19/2409:19
	Uncert:			+/-2.00						
	TPU:			+/-4.73						
QC1205832291 MB										
Radium-226			U	0.372	pCi/L				MJ2	09/19/2409:19

QC Summary

Workorder: **682059**

Parmname		NOM	Sample	Qual	QC	Units	RPD%	REC%	Range	Anlst	Date Time
Rad Ra-226											
Batch	2661722										
		Uncert:			+/-0.365						
		TPU:			+/-0.369						
QC1205832293	682059007 MS										
Radium-226		123	0.654		112	pCi/L		90.5	(75%-125%)	MJ2	09/19/2409:19
		Uncert:	+/-0.375		+/-10.0						
		TPU:	+/-0.399		+/-19.2						

Notes:

TPU and Counting Uncertainty are calculated at the 95% confidence level (1.96-sigma).

The Qualifiers in this report are defined as follows:

U	Analyte was analyzed for, but not detected above the MDL, MDA, MDC or LOD.
J	Value is estimated
X	Consult Case Narrative, Data Summary package, or Project Manager concerning this qualifier
H	Analytical holding time was exceeded
<	Result is less than value reported
>	Result is greater than value reported
UI	Gamma Spectroscopy--Uncertain identification
BD	Results are either below the MDC or tracer recovery is low
h	Preparation or preservation holding time was exceeded
R	Sample results are rejected
^	RPD of sample and duplicate evaluated using +/-RL. Concentrations are <5X the RL. Qualifier Not Applicable for Radiochemistry.
N/A	RPD or %Recovery limits do not apply.
ND	Analyte concentration is not detected above the detection limit
M	M if above MDC and less than LLD
NJ	Consult Case Narrative, Data Summary package, or Project Manager concerning this qualifier
FA	Failed analysis.
UJ	Gamma Spectroscopy--Uncertain identification
Q	One or more quality control criteria have not been met. Refer to the applicable narrative or DER.
K	Analyte present. Reported value may be biased high. Actual value is expected to be lower.
UL	Not considered detected. The associated number is the reported concentration, which may be inaccurate due to a low bias.
L	Analyte present. Reported value may be biased low. Actual value is expected to be higher.
N1	See case narrative
Y	Other specific qualifiers were required to properly define the results. Consult case narrative.
**	Analyte is a Tracer compound
M	REMP Result > MDC/CL and < RDL
J	See case narrative for an explanation

QC Summary

Workorder: **682059**

Parmname	NOM	Sample	Qual	QC	Units	RPD%	REC%	Range	Anlst	Date	Time

N/A indicates that spike recovery limits do not apply when sample concentration exceeds spike conc. by a factor of 4 or more or %RPD not applicable.
** Indicates analyte is a surrogate/tracer compound.
^ The Relative Percent Difference (RPD) obtained from the sample duplicate (DUP) is evaluated against the acceptence criteria when the sample is greater than five times (5X) the contract required detection limit (RL). In cases where either the sample or duplicate value is less than 5X the RL, a control limit of +/- the RL is used to evaluate the DUP result.
For PS, PSD, and SDILT results, the values listed are the measured amounts, not final concentrations.

Where the analytical method has been performed under NELAP certification, the analysis has met all of the requirements of the NELAC standard unless qualified on the QC Summary.

Page: 1 of 2
Project #
GEL Quote #:
COC Number (1):
PO Number: GPC82177-0004

GEL Laboratories LLC
gel.com
Chemistry | Radiochemistry | Radiobioassay | Specialty Analytics

Chain of Custody and Analytical Request

GEL Work Order Number: **GEL Project Manager: Erin Trent**

GEL Laboratories, LLC
2040 Savage Road
Charleston, SC 29407
Phone: (843) 556-8171
Fax: (843) 766-1178

682059

Client Name: GA Power Phone # 404-506-7116
Project/Site Name: Plant Kraft - Grumman Road Landfill Fax #
Address: 241 Ralph McGill Blvd SE, Atlanta GA 30308
Collected By: T. Goble/D. Johnson ACC Send Results To: SCS & ACC Contacts

Sample Analysis Requested (5) (Fill in the number of containers for each test)

Sample ID (* For composites - indicate start and stop date/time)	*Date Collected (mm-dd-yy)	*Time Collected (Military) (hhmm)	QC Code (2)	Field Filtered (3)	Sample Matrix (4)	Should this sample be considered: Radioactive (If yes, please supply isotopic info.)	Should this sample be considered: (7) Known or possible Hazards	Total number of containers	Cl, F, SO4, TDS EPA 300, SM 2540C	NI Metals * EPA 6020, 6010, 7470	NI Radium 226 & 228 SW-846 9315, 9320	<-- Preservative Type (6)	Comments
KRA- GWA-7	08-19-24	1635	G	N	WG	N	N	6	✓	✓	✓		Note: extra sample is required for sample specific QC Task_Code: KRA-CCR-ASSMT-2024S2
KRA- GWA-8	08-19-24	1623	G	N	WG	N	N	6	✓	✓	✓		
KRA- GWB-6R	08-20-24	0933	G	N	WG	N	N	6	✓	✓	✓		
KRA- GWB-4R	08-20-24	1127	G	N	WG	N	N	6	✓	✓	✓		
KRA- GWC-21	08-20-24	0953	G	N	WG	N	N	6	✓	✓	✓		
KRA- GWC-16	08-20-24	1203	G	N	WG	N	N	6	✓	✓	✓		
KRA- MW-26D	08-20-24	1317	G	N	WG	N	N	6	✓	✓	✓		
KRA- MW-24D	08-20-24	1312	G	N	WG	N	N	6	✓	✓	✓		
KRA- GWC-1	08-20-24	1441	G	N	WG	N	N	6	✓	✓	✓		
KRA- GWC-15	08-20-24	1445	G	N	WG	N	N	6	✓	✓	✓		

Chain of Custody Signatures

	Relinquished By (Signed)	Date	Time	Received by (signed)	Date	Time
1	Taylor Goble	8-21-24	0832	Taylor	8.21	24 08:30
2	Taylor 8.21.24 1100			Stacy Boone	8/21/24	1100
3						

TAT Requested: Normal: x Rush: _____ Specify: _____ (Subject to Surcharge)

Fax Results: [ ] Yes [x] No

Select Deliverable: [ ] C of A [ ] QC Summary [ ] level 1 [x] Level 2 [ ] Level 3 [ ] Level 4

Additional Remarks: * Metals: B,Ca,Sb,As,Ba,Be,Cd,Cr,Co,Pb,Li,Mo,Se,Tl,V,Zn,Hg

For Lab Receiving Use Only: *Custody Seal Intact?* [ ] Yes [ ] No *Cooler Temp:* 1 °C

> *For sample shipping and delivery details, see Sample Receipt & Review form (SRR.)*

Sample Collection Time Zone: [x] Eastern [ ] Pacific [ ] Central [ ] Mountain [ ] Other:

1.) Chain of Custody Number = Client Determined

2.) QC Codes: **N** = Normal Sample, **TB** = Trip Blank, **FD** = Field Duplicate, **EB** = Equipment Blank, **MS** = Matrix Spike Sample, **MSD** = Matrix Spike Duplicate Sample, **G** = Grab, **C** = Composite

3.) Field Filtered: For liquid matrices, indicate with a - **Y** - for yes the sample was field filtered or - **N** - for sample was not field filtered.

4.) Matrix Codes: **WD**=Drinking Water, **WG**=Groundwater, **WS**=Surface Water, **WW**=Waste Water, **WL**=Leachate, **SO**=Soil, **SE**=Sediment, **SL**=Sludge, **WQ**=Water Quality Control Matrix

5.) Sample Analysis Requested: Analytical method requested (i.e. **8260B, 6010B/7470A**) and number of containers provided for each (i.e. *8260B* - **3**, *6010B/7470A* - **1**).

6.) Preservative Type: **HA** = Hydrochloric Acid, **NI** = Nitric Acid, **SH** = Sodium Hydroxide, **SA** = Sulfuric Acid, **AA** = Ascorbic Acid, **HX** = Hexane, **ST** = Sodium Thiosulfate, If no preservative is added = leave field blank

7.) **KNOWN OR POSSIBLE HAZARDS**

RCRA Metals
As = Arsenic **Hg**= Mercury
Ba = Barium **Se**= Selenium
Cd = Cadmium **Ag**= Silver
Cr = Chromium **MR**= Misc. RCRA metals
Pb = Lead

Characteristic Hazards
FL = Flammable/Ignitable
CO = Corrosive
RE = Reactive

TSCA Regulated
PCB = Polychlorinated biphenyls

Listed Waste
LW= Listed Waste
(F,K,P and U-listed wastes.)
Waste code(s):

Other
OT= Other / Unknown
(i.e.: High/low pH, asbestos, beryllium, irritants, other misc. health hazards, etc.)
Description:

Please provide any additional details below regarding handling and/or disposal concerns. (i.e.: Origin of sample(s), type of site collected from, odd matrices, etc.)

Page: 2 of 2
Project #
GEL Quote #:
COC Number (1):
PO Number: GPC82177-0004

GEL Laboratories LLC
gel.com | Chemistry | Radiochemistry | Radiobioassay | Specialty Analytics

Chain of Custody and Analytical Request

GEL Work Order Number: *GEL Project Manager: Erin Trent*

GEL Laboratories, LLC
2040 Savage Road
Charleston, SC 29407
Phone: (843) 556-8171
Fax: (843) 766-1178

Client Name: GA Power | Phone # 404-506-7116
Project/Site Name: Plant Kraft - Grumman Road Landfill | Fax #
Address: 241 Ralph McGill Blvd SE, Atlanta GA 30308
Collected By: T. Goble/D. Johnson ACC | Send Results To: SCS & ACC Contacts

Sample Analysis Requested (5) (Fill in the number of containers for each test)

Sample ID (* For composites - indicate start and stop date/time)	*Date Collected (mm-dd-yy)	*Time Collected (Military) (hhmm)	QC Code (2)	Field Filtered (3)	Sample Matrix (4)	Should this sample be considered: Radioactive (If yes, please supply isotopic info.)	Should this sample be considered: (7) Known or possible Hazards	Total number of containers	Cl, F, SO4, TDS EPA 300, SM 2540C	Metals * EPA 6020, 6010, 7470	Radium 226 & 228 SW-846 9315, 9320	<-- Preservative Type (6)	Comments
KRA- GWC-17	08-20-24	1556	G	N	WG	N	N	6	✓	✓	✓		Note: extra sample is required for sample specific QC Task_Code: KRA-CCR-ASSMT-2024S2
KRA- GRL-FD-01	08-20-24	—	G	N	WG	N	N	6	✓	✓	✓		
KRA- GRL-FD-02	08-20-24	—	G	N	WG	N	N	6	✓	✓	✓		
KRA- GRL-FB-01	08-20-24	1030	G	N	WQ	N	N	6	✓	✓	✓		
KRA- GRL-EB-04	08-20-24	1350	G	N	WQ	N	N	6	✓	✓	✓		
KRA-													
KRA-													
KRA-													
KRA-													
KRA-													

Chain of Custody Signatures

	Relinquished By (Signed)	Date	Time	Received by (signed)	Date	Time
1	Taylor Gill	8-21-24	0832	[illegible]	8.21.24	0832
2	Taylor 8.21.24		1130	Stacy Boone	8/21/24	1100
3						

> *For sample shipping and delivery details, see Sample Receipt & Review form (SRR.)*

TAT Requested: Normal: x Rush: ____ Specify: ____ (Subject to Surcharge)

Fax Results: [ ] Yes [x] No

Select Deliverable: [ ] C of A [ ] QC Summary [ ] level 1 [x] Level 2 [ ] Level 3 [ ] Level 4

Additional Remarks: * **Metals: B,Ca,Sb,As,Ba,Be,Cd,Cr,Co,Pb,Li,Mo,Se,Tl,V,Zn,Hg**

For Lab Receiving Use Only: *Custody Seal Intact?* [ ] Yes [ ] No *Cooler Temp:* 1 °C

Sample Collection Time Zone: [x] Eastern [ ] Pacific [ ] Central [ ] Mountain [ ] Other:

1.) Chain of Custody Number = Client Determined

2.) QC Codes: **N** = Normal Sample, **TB** = Trip Blank, **FD** = Field Duplicate, **EB** = Equipment Blank, **MS** = Matrix Spike Sample, **MSD** = Matrix Spike Duplicate Sample, **G** = Grab, **C** = Composite

3.) Field Filtered: For liquid matrices, indicate with a **- Y -** for yes the sample was field filtered or **- N -** for sample was not field filtered.

4.) Matrix Codes: **WD**=Drinking Water, **WG**=Groundwater, **WS**=Surface Water, **WW**=Waste Water, **WL**=Leachate, **SO**=Soil, **SE**=Sediment, **SL**=Sludge, **WQ**=Water Quality Control Matrix

5.) Sample Analysis Requested: Analytical method requested (i.e. **8260B, 6010B/7470A**) and number of containers provided for each (i.e. *8260B* **- 3**, *6010B/7470A* **- 1**).

6.) Preservative Type: **HA** = Hydrochloric Acid, **NI** = Nitric Acid, **SH** = Sodium Hydroxide, **SA** = Sulfuric Acid, **AA** = Ascorbic Acid, **HX** = Hexane, **ST** = Sodium Thiosulfate, If no preservative is added = leave field blank

7.) **KNOWN OR POSSIBLE HAZARDS**

RCRA Metals
As = Arsenic **Hg**= Mercury
Ba = Barium **Se**= Selenium
Cd = Cadmium **Ag**= Silver
Cr = Chromium **MR**= Misc. RCRA metals
Pb = Lead

Characteristic Hazards
FL = Flammable/Ignitable
CO = Corrosive
RE = Reactive

TSCA Regulated
PCB = Polychlorinated biphenyls

Listed Waste
LW= Listed Waste
(F,K,P and U-listed wastes.)
Waste code(s):

Other
OT= Other / Unknown
(i.e.: High/low pH, asbestos, beryllium, irritants, other misc. health hazards, etc.)
Description:

Please provide any additional details below regarding handling and/or disposal concerns. *(i.e.: Origin of sample(s), type of site collected from, odd matrices, etc.)*

682062
682059

GEL Laboratories LLC

SAMPLE RECEIPT & REVIEW FORM

Client: GPCC	**SDG/AR/COC/Work Order:** A-P.
Received By: Thyasia Tatum	**Date Received:** 8/21/24
Carrier and Tracking Number	Circle Applicable: FedEx Express FedEx Ground UPS Field Services Courier Other

Suspected Hazard Information	Yes	No	
			*If Net Counts > 100cpm on samples not marked "radioactive", contact the Radiation Safety Group for further investigation.
A)Shipped as a DOT Hazardous?		✓	Hazard Class Shipped: UN#: If UN2910, Is the Radioactive Shipment Survey Compliant? Yes___ No___
B) Did the client designate the samples are to be received as radioactive?		✓	COC notation or radioactive stickers on containers equal client designation.
C) Did the RSO classify the samples as radioactive?		✓	Maximum Net Counts Observed* (Observed Counts - Area Background Counts): 0 CPM / mR/Hr **Classified as: Rad 1 Rad 2 Rad 3**
D) Did the client designate samples are hazardous?		✓	COC notation or hazard labels on containers equal client designation.
E) Did the RSO identify possible hazards?		✓	If D or E is yes, select Hazards below. PCB's Flammable Foreign Soil RCRA Asbestos Beryllium Other:

	Sample Receipt Criteria	Yes	NA	No	Comments/Qualifiers (Required for Non-Conforming Items)
1	Shipping containers received intact and sealed?	✓			Circle Applicable: Seals broken Damaged container Leaking container Other (describe)
2	Chain of custody documents included with shipment?	✓			Circle Applicable: Client contacted and provided COC COC created upon receipt
3	Samples requiring cold preservation within (0 ≤ 6 deg. C)?*	✓			Preservation Method: (Wet Ice) Ice Packs Dry ice None Other: *all temperatures are recorded in Celsius TEMP: 2C
4	Daily check performed and passed on IR temperature gun?	✓			Temperature Device Serial #: IR2-23 Secondary Temperature Device Serial # (If Applicable):
5	Sample containers intact and sealed?	✓			Circle Applicable: Seals broken Damaged container Leaking container Other (describe)
6	Samples requiring chemical preservation at proper pH?	✓			Sample ID's and Containers Affected: If Preservation added, Lot#:
7	Do any samples require Volatile Analysis?			✓	If Yes, are Encores or Soil Kits present for solids? Yes___ No___ NA___(If yes, take to VOA Freezer) Do liquid VOA vials contain acid preservation? Yes___ No___ NA___(If unknown, select No) Are liquid VOA vials free of headspace? Yes___ No___ NA___ Sample ID's and containers affected:
8	Samples received within holding time?	✓		✓	ID's and tests affected:
9	Sample ID's on COC match ID's on bottles?	✓			ID's and containers affected:
10	Date & time on COC match date & time on bottles?	✓			Circle Applicable: No dates on containers No times on containers COC missing info Other (describe)
11	Number of containers received match number indicated on COC?			✓	Circle Applicable: No container count on COC Other (describe) ~~RECEIVED K&A-GWA-7 (METALS F/F) NOT ON COC~~ HB 8/22
12	Are sample containers identifiable as GEL provided by use of GEL labels?	✓			
13	COC form is properly signed in relinquished/received sections?	✓			Circle Applicable: Not relinquished Other (describe)

Comments (Use Continuation Form if needed):

PM (or PMA) review: Initials HB Date 8/22/24 Page 1 of 1

GL-CHL-SR-001 Rev 7

Rev 1
9/27/24

Page 1 of 2
Project #
GEL Quote #:
COC Number (1):
PO Number: GPC82177-0004

GEL Laboratories LLC
gel.com
Chemistry | Radiochemistry | Radiobioassay | Specialty Analytics

Chain of Custody and Analytical Request

GEL Work Order Number:
GEL Project Manager: Erin Trent

GEL Laboratories, LLC
2040 Savage Road
Charleston, SC 29407
Phone (843) 556-8171
Fax (843) 766-1178

Client Name: GA Power — Phone # 404-506-7116
Project/Site Name: Plant Kraft - Grumman Road Landfill — Fax #
Address: 241 Ralph McGill Blvd SE, Atlanta GA 30308
Collected By: ACC — Send Results To: SCS & ACC Contacts

Sample Analysis Requested (5) (Fill in the number of containers for each test)

Sample ID * For composites - indicate start and stop date/time	*Date Collected (mm-dd-yy)	*Time Collected (Military) (hhmm)	QC Code (2)	Field Filtered (3)	Sample Matrix (4)	Should this sample be considered: Radioactive (If yes, please supply isotope info.)	Should this sample be considered: (7) Known or possible Hazards	Total number of containers	Cl, F, SO4, TDS EPA 300, SM 2540C	Metals * EPA 6020, 6010, 7470	Radium 226 & 228 SW-846 9315, 9320	NI	NI	<-- Preservative Type (6)	Comments
KRA- GWA-7	08-19-24	1635	G	N	WG	N	N	6	✓	✓	✓				
KRA- GWA-8	08-19-24	1623	G	N	WG	N	N	6	✓	✓	✓			BMcD	cancel
KRA- GWB-6R	08-20-24	0933	G	N	WG	N	N	6	✓	✓	✓				
KRA- GWB-4R	08-20-24	1127	G	N	WG	N	N	6	✓	✓	✓				
KRA- GWC-21	08-20-24	0953	G	N	WG	N	N	6	✓	✓	✓			BMcD	cancel
KRA- GWC-16	08-20-24	1203	G	N	WG	N	N	6	✓	✓	✓			BMcD	cancel
KRA- MW-26D	08-20-24	1317	G	N	WG	N	N	6	✓	✓	✓				
KRA- MW-24D	08-20-24	1312	G	N	WG	N	N	6	✓	✓	✓			BMcD	cancel
KRA- GWC-1	08-20-24	1441	G	N	WG	N	N	6	✓	✓	✓				
KRA- GWC-15	08-20-24	1445	G	N	WG	N	N	6	✓	✓	✓			BMcD 9/27/24	cancel

Chain of Custody Signatures

Relinquished By (Signed)	Date	Time	Received by (signed)	Date	Time
1			1		
2			2		
3			3		

TAT Requested: Normal: x Rush: ____ Specify: ____ (Subject to Surcharge)

Fax Results: [ ] Yes [x] No

Select Deliverable: [ ] C of A [ ] QC Summary [ ] level 1 [x] Level 2 [ ] Level 3 [ ] Level 4

Additional Remarks: * Metals: B,Ca,Sb,As,Ba,Be,Cd,Cr,Co,Pb,Li,Mo,Se,Tl,V,Zn,Hg

For Lab Receiving Use Only: Custody Seal Intact? [ ] Yes [ ] No Cooler Temp: ____ °C

> *For sample shipping and delivery details, see Sample Receipt & Review form (SRR).*

Sample Collection Time Zone [x] Eastern [ ] Pacific [ ] Central [ ] Mountain [ ] Other:

1) Chain of Custody Number = Client Determined

2) QC Codes N = Normal Sample, TB = Trip Blank, FD = Field Duplicate, EB = Equipment Blank, MS = Matrix Spike Sample, MSD = Matrix Spike Duplicate Sample, G = Grab, C = Composite

3) Field Filtered For liquid matrices, indicate with a - Y - for yes the sample was field filtered or - N - for sample was not field filtered

4) Matrix Codes WD=Drinking Water, WG=Groundwater, WS=Surface Water, WW=Waste Water, WL=Leachate, SO=Soil, SE=Sediment, SL=Sludge, WQ=Water Quality Control Matrix

5) Sample Analysis Requested Analytical method requested (i.e. *8260B*, **6010B/7470A**) and number of containers provided for each (i.e. *8260B* - 3, *6010B/7470A* - 1)

6) Preservative Type HA = Hydrochloric Acid, NI = Nitric Acid, SH = Sodium Hydroxide, SA = Sulfuric Acid, AA = Ascorbic Acid, HX = Hexane, ST = Sodium Thiosulfate, If no preservative is added = leave field blank

7) KNOWN OR POSSIBLE HAZARDS

RCRA Metals
As = Arsenic Hg= Mercury
Ba = Barium Se= Selenium
Cd = Cadmium Ag= Silver
Cr = Chromium MR= Misc. RCRA metals
Pb = Lead

Characteristic Hazards
FL = Flammable/Ignitable
CO = Corrosive
RE = Reactive

TSCA Regulated
PCB = Polychlorinated biphenyls

Listed Waste
LW= Listed Waste
(F,K,P and U-listed wastes.)
Waste code(s):

Other
OT= Other / Unknown
(i.e.: High/low pH, asbestos, beryllium, irritants, other misc. health hazards, etc.)
Description:

Please provide any additional details below regarding handling and/or disposal concerns. (i.e. Origin of sample(s), type of site collected from, odd matrices, etc.)

Page 2 of 2
Project #
GEL Quote #
COC Number (1)
PO Number GPC82177-0004

GEL Laboratories LLC
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Chemistry | Radiochemistry | Radiobioassay | Specialty Analytics

Chain of Custody and Analytical Request

GEL Work Order Number:
GEL Project Manager: Erin Trent

GEL Laboratories, LLC
2040 Savage Road
Charleston, SC 29407
Phone (843) 556-8171
Fax (843) 766-1178

Client Name: GA Power — Phone # 404-506-7116
Project/Site Name: Plant Kraft - Grumman Road Landfill — Fax #
Address: 241 Ralph McGill Blvd SE, Atlanta GA 30308
Collected By: ACC — Send Results To: SCS & ACC Contacts

Sample Analysis Requested (5) (Fill in the number of containers for each test)

Sample ID (* For composites - indicate start and stop date/time)	*Date Collected (mm-dd-yy)	*Time Collected (Military) (hhmm)	QC Code (2)	Field Filtered (3)	Sample Matrix (4)	Should this sample be considered: Radioactive (If yes, please supply isotopic info.)	Should this sample be considered: (7) Known or possible Hazards	Total number of containers	Cl, F, SO4, TDS EPA 300, SM 2540C	Metals * EPA 6020, 6010, 7470	Radium 226 & 228 SW 846 9315, 9320	<= Preservative Type (6)	Comments
KRA- GWC-17	08-20-24	1556	G	N	WG	N	N	6	✓	✓	✓	BMcD	Cancel
KRA- GRL-FD-01	08-20-24	—	G	N	WG	N	N	6	✓	✓	✓	BMcD	Cancel
KRA- GRL-FD-02	08-20-24	—	G	N	WG	N	N	6	✓	✓	✓	8/21/24	
KRA- GRL-FB-01	08-20-24	1030	G	N	WQ	N	N	6	✓	✓	✓		
KRA- GRL-EB-04	08-20-24	1350	G	N	WQ	N	N	6	✓	✓	✓		
KRA-													
KRA-													
KRA-													
KRA-													
KRA-													

Comments: Note extra sample is required for sample specific QC. Task_Code: KRA-CCR-ASSMT-2024S2

Chain of Custody Signatures

Relinquished By (Signed)	Date	Time	Received by (signed)	Date	Time
1			1		
2			2		
3			3		

TAT Requested: Normal: x Rush: ____ Specify: ____ (Subject to Surcharge)

Fax Results [ ] Yes [x] No

Select Deliverable [ ] C of A [ ] QC Summary [ ] level 1 [x] Level 2 [ ] Level 3 [ ] Level 4

Additional Remarks: * Metals: B,Ca,Sb,As,Ba,Be,Cd,Cr,Co,Pb,Li,Mo,Se,Tl,V,Zn,Hg

For Lab Receiving Use Only: Custody Seal Intact? [ ] Yes [ ] No Cooler Temp: ____ °C

> For sample shipping and delivery details, see Sample Receipt & Review form (SRR).

Sample Collection Time Zone: [x] Eastern [ ] Pacific [ ] Central [ ] Mountain [ ] Other

1) Chain of Custody Number = Client Determined

2) QC Codes: N = Normal Sample, TB = Trip Blank, FD = Field Duplicate, EB = Equipment Blank, MS = Matrix Spike Sample, MSD = Matrix Spike Duplicate Sample, G = Grab, C = Composite

3) Field Filtered: For liquid matrices, indicate with a - Y - for yes the sample was field filtered or - N - for sample was not field filtered.

4) Matrix Codes: WD=Drinking Water, WG=Groundwater, WS=Surface Water, WW=Waste Water, WL=Leachate, SO=Soil, SE=Sediment, SL=Sludge, WQ=Water Quality Control Matrix

5) Sample Analysis Requested: Analytical method requested (i.e. 8260B, 6010B/7470A) and number of containers provided for each (i.e. 8260B - 3, 6010B/7470A - 1)

6) Preservative Type: HA = Hydrochloric Acid, NI = Nitric Acid, SH = Sodium Hydroxide, SA = Sulfuric Acid, AA = Ascorbic Acid, HX = Hexane, ST = Sodium Thiosulfate, If no preservative is added = leave field blank

7) KNOWN OR POSSIBLE HAZARDS

RCRA Metals
As = Arsenic, Hg= Mercury, Ba = Barium, Se= Selenium, Cd = Cadmium, Ag= Silver, Cr = Chromium, MR= Misc. RCRA metals, Pb = Lead

Characteristic Hazards
FL = Flammable/Ignitable
CO = Corrosive
RE = Reactive

TSCA Regulated
PCB = Polychlorinated biphenyls

Listed Waste
LW= Listed Waste
(F,K,P and U-listed wastes.)
Waste code(s):

Other
OT= Other / Unknown
(i.e.: High/low pH, asbestos, beryllium, irritants, other misc. health hazards, etc.)
Description:

Please provide any additional details below regarding handling and/or disposal concerns. (i.e. Origin of sample(s), type of site collected from, odd matrices, etc.)

List of current GEL Certifications as of 03 October 2024

State	Certification
Alabama	42200
Alaska	17-018
Alaska Drinking Water	SC00012
Arkansas	88-00651
CLIA	42D0904046
California	2940
Colorado	SC00012
Connecticut	PH-0169
DoD ELAP/ ISO17025 A2LA	2567.01
Florida NELAP	E87156
Foreign Soils Permit	P330-15-00283, P330-15-00253
Georgia	SC00012
Georgia SDWA	967
Hawaii	SC00012
Idaho	SC00012
Illinois NELAP	200029
Indiana	C-SC-01
Kansas NELAP	E-10332
Kentucky SDWA	KY90129
Kentucky Wastewater	KY90129
Louisiana Drinking Water	LA024
Louisiana NELAP	03046 (AI33904)
Maine	2023019
Maryland	270
Massachusetts	M-SC012
Massachusetts PFAS Approv	Letter
Michigan	9976
Mississippi	SC00012
Nebraska	NE-OS-26-13
Nevada	NV-C24-00175
New Hampshire NELAP	205424
New Jersey NELAP	SC002
New Mexico	SC00012
New York NELAP	11501
North Carolina	233
North Carolina SDWA	45709
North Dakota	R-158
Oklahoma	2023-152
Pennsylvania NELAP	68-00485
Puerto Rico	SC00012
S. Carolina Radiochem	10120002
Sanitation Districts of L	9255651
South Carolina Chemistry	10120001
Tennessee	TN 02934
Texas NELAP	T104704235
Utah NELAP	SC000122024-41
Vermont	VT87156
Virginia NELAP	460202
Washington	C780

GEL Laboratories LLC
a member of The GEL Group INC

2040 Savage Road | Charleston, SC 29407
843.556.8171
gel.com

September 20, 2024

Kristen Jurinko
Georgia Power Company
241 Ralph McGill Blvd NE
Bin 10160
Atlanta, Georgia 30308

Re: Kraft - Grumman Road Landfill CCR Groundwater Compliance
Work Order: 682335

Dear Kristen Jurinko:

GEL Laboratories, LLC (GEL) appreciates the opportunity to provide the enclosed analytical results for the sample(s) we received on August 22, 2024. This original data report has been prepared and reviewed in accordance with GEL's standard operating procedures.

The samples were delivered with proper chain of custody documentation and signatures. All sample containers arrived without any visible signs of tampering or breakage. There are no additional comments concerning sample receipt. The laboratory received the following sample(s):

Laboratory ID	Client ID	Matrix	Date Collected	Date Received
682335001	KRA-GWC-9	Ground Water	08/21/24 09:30	08/22/24 13:54
682335002	KRA-GRL-EB-05	Water	08/21/24 10:15	08/22/24 13:54
682335003	KRA-GWC-22	Ground Water	08/21/24 11:29	08/22/24 13:54
682335004	KRA-GWA-8	Ground Water	08/21/24 16:39	08/22/24 13:54
682335005	KRA-GWB-5R	Ground Water	08/21/24 18:12	08/22/24 13:54
682335006	KRA-GWC-2	Ground Water	08/21/24 13:24	08/22/24 13:54
682335007	KRA-GWC-11	Ground Water	08/21/24 13:11	08/22/24 13:54
682335008	KRA-GWC-12	Ground Water	08/21/24 15:11	08/22/24 13:54
682335009	KRA-GWC-13	Ground Water	08/21/24 16:40	08/22/24 13:54
682335010	KRA-GWC-14	Ground Water	08/21/24 12:15	08/22/24 13:54
682335011	KRA-GWC-15	Ground Water	08/21/24 17:30	08/22/24 13:54
682335012	KRA-GWC-16	Ground Water	08/21/24 16:00	08/22/24 13:54
682335013	KRA-GWC-17	Ground Water	08/21/24 17:41	08/22/24 13:54
682335014	KRA-GWC-20	Ground Water	08/21/24 12:55	08/22/24 13:54
682335015	KRA-MW-23D	Ground Water	08/21/24 10:45	08/22/24 13:54
682335016	KRA-MW-24D	Ground Water	08/21/24 18:01	08/22/24 13:54

682335017	KRA-MW-25D	Ground Water	08/21/24 16:20	08/22/24 13:54
682335018	KRA-GRL-FD-03	Ground Water	08/21/24 12:00	08/22/24 13:54
682335019	KRA-GRL-FB-02	Water	08/21/24 10:35	08/22/24 13:54
682335020	KRA-GRL-FB-03	Water	08/21/24 18:40	08/22/24 13:54
682335021	KRA-GRL-EB-06	Water	08/21/24 18:30	08/22/24 13:54
682335022	KRA-GWC-21	Ground Water	08/22/24 10:31	08/22/24 13:54
682335023	KRA-GRL-FD-01	Ground Water	08/22/24 12:00	08/22/24 13:54

Test results for NELAP or ISO 17025 accredited tests are verified to meet the requirements of those standards, with any exceptions noted. The results reported relate only to the items tested and to the sample as received by the laboratory. These results may not be reproduced except as full reports without approval by the laboratory. Copies of GEL's accreditations and certifications can be found on our website at www.gel.com.

Prep Methods and Prep Dates

Not Applicable

Analysis Methods and Analysis Dates

Method	Run Date ID
Calculation	19-SEP-2024
EPA 903.1 Modified	15-SEP-2024
EPA 903.1 Modified	18-SEP-2024
EPA 904.0/SW846 9320 Modified	18-SEP-2024
EPA 904.0/SW846 9320 Modified	19-SEP-2024

Our policy is to provide high quality, personalized analytical services to enable you to meet your analytical needs on time every time. We trust that you will find everything in order and to your satisfaction. If you have any questions, please do not hesitate to call me at (843) 556-8171, ext. 4443.

Sincerely,

Alaina Pinnick

Alaina Pinnick
Project Manager

Purchase Order: GPC82177-0004
Enclosures

GEL LABORATORIES LLC
2040 Savage Road Charleston SC 29407 - (843) 556-8171 - www.gel.com

Certificate of Analysis Report
for

GPCC001 Georgia Power Company

Client SDG: 682335 GEL Work Order: 682335

The Qualifiers in this report are defined as follows:

* A quality control analyte recovery is outside of specified acceptance criteria

** Analyte is a Tracer compound

** Analyte is a surrogate compound

U Analyte was analyzed for, but not detected above the MDL, MDA, MDC or LOD.

Where the analytical method has been performed under NELAP certification, the analysis has met all of the requirements of the NELAC standard unless qualified on the Certificate of Analysis.

The designation ND, if present, appears in the result column when the analyte concentration is not detected above the limit as defined in the 'U' qualifier above.

This data report has been prepared and reviewed in accordance with GEL Laboratories LLC standard operating procedures. Please direct any questions to your Project Manager, Alaina Pinnick.

Reviewed by Alaina Pinnick

GEL LABORATORIES LLC
2040 Savage Road Charleston SC 29407 - (843) 556-8171 - www.gel.com

Certificate of Analysis

Company : Georgia Power Company
Address : 241 Ralph McGill Blvd NE
Bin 10160
Atlanta, Georgia 30308

Report Date: September 20, 2024

Contact: Kristen Jurinko
Project: Kraft - Grumman Road Landfill CCR Groundwater Compliance

Client Sample ID: KRA-GWC-9
Sample ID: 682335001
Matrix: WG
Collect Date: 21-AUG-24
Receive Date: 22-AUG-24
Collector: Client

Project: GPCC00102
Client ID: GPCC001

Parameter	Qualifier	Result	Uncertainty	MDC	TPU	RL	Units	PF	DF	Analyst	Date	Time	Batch	Mtd.
Rad Gas Flow Proportional Counting														
GFPC Ra228, Liquid "As Received"														
Radium-228	U	1.31	+/-1.09	1.72	+/-1.14	3.00	pCi/L			KP1	09/18/24	1238	2661779	1
Radium-226+Radium-228 Calculation "See Parent Products"														
Radium-226+228 Sum		2.54	+/-1.15	1.72	+/-1.23		pCi/L			NXL1	09/19/24	1536	2665122	2
Rad Radium-226														
Lucas Cell, Ra226, Liquid "As Received"														
Radium-226		1.23	+/-0.371	0.214	+/-0.458	1.00	pCi/L			MJ2	09/18/24	0826	2661723	3

The following Analytical Methods were performed

Method	Description
1	EPA 904.0/SW846 9320 Modified
2	Calculation
3	EPA 903.1 Modified

Surrogate/Tracer Recovery	Test	Batch ID	Recovery%	Acceptable Limits
Barium-133 Tracer	GFPC Ra228, Liquid "As Received"	2661779	69.2	(15%-125%)

Notes:

The MDC is a sample specific MDC.
TPU and Counting Uncertainty are calculated at the 95% confidence level (1.96-sigma).

Column headers are defined as follows:

DF: Dilution Factor
DL: Detection Limit
Lc/LC: Critical Level
MDA: Minimum Detectable Activity
MDC: Minimum Detectable Concentration
Mtd.: Method
PF: Prep Factor
RL: Reporting Limit
TPU: Total Propagated Uncertainty

GEL LABORATORIES LLC
2040 Savage Road Charleston SC 29407 - (843) 556-8171 - www.gel.com

Certificate of Analysis

Company : Georgia Power Company
Address : 241 Ralph McGill Blvd NE
Bin 10160
Atlanta, Georgia 30308

Report Date: September 20, 2024

Contact: Kristen Jurinko
Project: Kraft - Grumman Road Landfill CCR Groundwater Compliance

Client Sample ID: KRA-GRL-EB-05
Sample ID: 682335002
Matrix: WQ
Collect Date: 21-AUG-24
Receive Date: 22-AUG-24
Collector: Client

Project: GPCC00102
Client ID: GPCC001

Parameter	Qualifier	Result	Uncertainty	MDC	TPU	RL	Units	PF	DF	Analyst	Date	Time	Batch	Mtd.
Rad Gas Flow Proportional Counting														
GFPC Ra228, Liquid "As Received"														
Radium-228	U	1.22	+/-0.983	1.56	+/-1.03	3.00	pCi/L			KP1	09/18/24	1238	2661779	1
Radium-226+Radium-228 Calculation "See Parent Products"														
Radium-226+228 Sum		1.66	+/-1.04	1.56	+/-1.09		pCi/L			NXL1	09/19/24	1536	2665122	2
Rad Radium-226														
Lucas Cell, Ra226, Liquid "As Received"														
Radium-226	U	0.440	+/-0.326	0.481	+/-0.333	1.00	pCi/L			MJ2	09/18/24	0826	2661723	3

The following Analytical Methods were performed

Method	Description
1	EPA 904.0/SW846 9320 Modified
2	Calculation
3	EPA 903.1 Modified

Surrogate/Tracer Recovery	Test	Batch ID	Recovery%	Acceptable Limits
Barium-133 Tracer	GFPC Ra228, Liquid "As Received"	2661779	78.9	(15%-125%)

Notes:

The MDC is a sample specific MDC.
TPU and Counting Uncertainty are calculated at the 95% confidence level (1.96-sigma).

Column headers are defined as follows:

DF: Dilution Factor
DL: Detection Limit
Lc/LC: Critical Level
MDA: Minimum Detectable Activity
MDC: Minimum Detectable Concentration
Mtd.: Method
PF: Prep Factor
RL: Reporting Limit
TPU: Total Propagated Uncertainty

GEL LABORATORIES LLC
2040 Savage Road Charleston SC 29407 - (843) 556-8171 - www.gel.com

Certificate of Analysis

Company : Georgia Power Company
Address : 241 Ralph McGill Blvd NE
Bin 10160
Atlanta, Georgia 30308

Report Date: September 20, 2024

Contact: Kristen Jurinko

Project: Kraft - Grumman Road Landfill CCR Groundwater Compliance

Client Sample ID: KRA-GWC-22
Sample ID: 682335003
Matrix: WG
Collect Date: 21-AUG-24
Receive Date: 22-AUG-24
Collector: Client

Project: GPCC00102
Client ID: GPCC001

Parameter	Qualifier	Result	Uncertainty	MDC	TPU	RL	Units	PF	DF	Analyst	Date	Time	Batch	Mtd.
Rad Gas Flow Proportional Counting														
GFPC Ra228, Liquid "As Received"														
Radium-228	U	1.64	+/-1.30	2.08	+/-1.37	3.00	pCi/L			KP1	09/18/24	1238	2661779	1
Radium-226+Radium-228 Calculation "See Parent Products"														
Radium-226+228 Sum		2.35	+/-1.34	2.08	+/-1.41		pCi/L			NXL1	09/19/24	1536	2665122	2
Rad Radium-226														
Lucas Cell, Ra226, Liquid "As Received"														
Radium-226		0.701	+/-0.308	0.332	+/-0.345	1.00	pCi/L			MJ2	09/18/24	0826	2661723	3

The following Analytical Methods were performed

Method	Description
1	EPA 904.0/SW846 9320 Modified
2	Calculation
3	EPA 903.1 Modified

Surrogate/Tracer Recovery	Test	Batch ID	Recovery%	Acceptable Limits
Barium-133 Tracer	GFPC Ra228, Liquid "As Received"	2661779	78.1	(15%-125%)

Notes:

The MDC is a sample specific MDC.
TPU and Counting Uncertainty are calculated at the 95% confidence level (1.96-sigma).

Column headers are defined as follows:

DF: Dilution Factor
DL: Detection Limit
Lc/LC: Critical Level
MDA: Minimum Detectable Activity
MDC: Minimum Detectable Concentration
Mtd.: Method
PF: Prep Factor
RL: Reporting Limit
TPU: Total Propagated Uncertainty

GEL LABORATORIES LLC
2040 Savage Road Charleston SC 29407 - (843) 556-8171 - www.gel.com

Certificate of Analysis

Company : Georgia Power Company
Address : 241 Ralph McGill Blvd NE
Bin 10160
Atlanta, Georgia 30308

Report Date: September 20, 2024

Contact: Kristen Jurinko

Project: Kraft - Grumman Road Landfill CCR Groundwater Compliance

Client Sample ID: KRA-GWA-8
Sample ID: 682335004
Matrix: WG
Collect Date: 21-AUG-24
Receive Date: 22-AUG-24
Collector: Client

Project: GPCC00102
Client ID: GPCC001

Parameter	Qualifier	Result	Uncertainty	MDC	TPU	RL	Units	PF	DF	Analyst	Date	Time	Batch	Mtd.
Rad Gas Flow Proportional Counting														
GFPC Ra228, Liquid "As Received"														
Radium-228		3.23	+/-1.51	2.23	+/-1.73	3.00	pCi/L			KP1	09/19/24	1201	2661780	1
Radium-226+Radium-228 Calculation "See Parent Products"														
Radium-226+228 Sum		4.29	+/-1.55	2.23	+/-1.77		pCi/L			NXL1	09/19/24	1536	2665122	2
Rad Radium-226														
Lucas Cell, Ra226, Liquid "As Received"														
Radium-226		1.06	+/-0.343	0.209	+/-0.383	1.00	pCi/L			MJ2	09/18/24	0826	2661723	3

The following Analytical Methods were performed

Method	Description
1	EPA 904.0/SW846 9320 Modified
2	Calculation
3	EPA 903.1 Modified

Surrogate/Tracer Recovery	Test	Batch ID	Recovery%	Acceptable Limits
Barium-133 Tracer	GFPC Ra228, Liquid "As Received"	2661780	85.1	(15%-125%)

Notes:

The MDC is a sample specific MDC.
TPU and Counting Uncertainty are calculated at the 95% confidence level (1.96-sigma).

Column headers are defined as follows:

DF: Dilution Factor
DL: Detection Limit
Lc/LC: Critical Level
MDA: Minimum Detectable Activity
MDC: Minimum Detectable Concentration
Mtd.: Method
PF: Prep Factor
RL: Reporting Limit
TPU: Total Propagated Uncertainty

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Certificate of Analysis

Company : Georgia Power Company
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Atlanta, Georgia 30308

Report Date: September 20, 2024

Contact: Kristen Jurinko

Project: Kraft - Grumman Road Landfill CCR Groundwater Compliance

Client Sample ID: KRA-GWB-5R
Sample ID: 682335005
Matrix: WG
Collect Date: 21-AUG-24
Receive Date: 22-AUG-24
Collector: Client

Project: GPCC00102
Client ID: GPCC001

Parameter	Qualifier	Result	Uncertainty	MDC	TPU	RL	Units	PF	DF	Analyst	Date	Time	Batch	Mtd.
Rad Gas Flow Proportional Counting														
GFPC Ra228, Liquid "As Received"														
Radium-228	U	0.916	+/-1.31	2.24	+/-1.33	3.00	pCi/L			KP1	09/19/24	1201	2661780	1
Radium-226+Radium-228 Calculation "See Parent Products"														
Radium-226+228 Sum		2.85	+/-1.38	2.24	+/-1.47		pCi/L			NXL1	09/19/24	1536	2665122	2
Rad Radium-226														
Lucas Cell, Ra226, Liquid "As Received"														
Radium-226		1.94	+/-0.443	0.332	+/-0.626	1.00	pCi/L			MJ2	09/18/24	0826	2661723	3

The following Analytical Methods were performed

Method	Description
1	EPA 904.0/SW846 9320 Modified
2	Calculation
3	EPA 903.1 Modified

Surrogate/Tracer Recovery	Test	Batch ID	Recovery%	Acceptable Limits
Barium-133 Tracer	GFPC Ra228, Liquid "As Received"	2661780	83.3	(15%-125%)

Notes:

The MDC is a sample specific MDC.
TPU and Counting Uncertainty are calculated at the 95% confidence level (1.96-sigma).

Column headers are defined as follows:

DF: Dilution Factor
DL: Detection Limit
Lc/LC: Critical Level
MDA: Minimum Detectable Activity
MDC: Minimum Detectable Concentration
Mtd.: Method
PF: Prep Factor
RL: Reporting Limit
TPU: Total Propagated Uncertainty

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Report Date: September 20, 2024

Contact: Kristen Jurinko

Project: Kraft - Grumman Road Landfill CCR Groundwater Compliance

Client Sample ID: KRA-GWC-2
Sample ID: 682335006
Matrix: WG
Collect Date: 21-AUG-24
Receive Date: 22-AUG-24
Collector: Client

Project: GPCC00102
Client ID: GPCC001

Parameter	Qualifier	Result	Uncertainty	MDC	TPU	RL	Units	PF	DF	Analyst	Date	Time	Batch	Mtd.
Rad Gas Flow Proportional Counting														
GFPC Ra228, Liquid "As Received"														
Radium-228	U	1.53	+/-1.09	1.68	+/-1.16	3.00	pCi/L			KP1	09/19/24	1201	2661780	1
Radium-226+Radium-228 Calculation "See Parent Products"														
Radium-226+228 Sum		2.07	+/-1.12	1.68	+/-1.19		pCi/L			NXL1	09/19/24	1536	2665122	2
Rad Radium-226														
Lucas Cell, Ra226, Liquid "As Received"														
Radium-226		0.535	+/-0.253	0.215	+/-0.265	1.00	pCi/L			MJ2	09/18/24	0826	2661723	3

The following Analytical Methods were performed

Method	Description
1	EPA 904.0/SW846 9320 Modified
2	Calculation
3	EPA 903.1 Modified

Surrogate/Tracer Recovery	Test	Batch ID	Recovery%	Acceptable Limits
Barium-133 Tracer	GFPC Ra228, Liquid "As Received"	2661780	77.1	(15%-125%)

Notes:

The MDC is a sample specific MDC.
TPU and Counting Uncertainty are calculated at the 95% confidence level (1.96-sigma).

Column headers are defined as follows:

DF: Dilution Factor
DL: Detection Limit
Lc/LC: Critical Level
MDA: Minimum Detectable Activity
MDC: Minimum Detectable Concentration
Mtd.: Method
PF: Prep Factor
RL: Reporting Limit
TPU: Total Propagated Uncertainty

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Report Date: September 20, 2024

Contact: Kristen Jurinko

Project: Kraft - Grumman Road Landfill CCR Groundwater Compliance

Client Sample ID: KRA-GWC-11
Sample ID: 682335007
Matrix: WG
Collect Date: 21-AUG-24
Receive Date: 22-AUG-24
Collector: Client

Project: GPCC00102
Client ID: GPCC001

Parameter	Qualifier	Result	Uncertainty	MDC	TPU	RL	Units	PF	DF	Analyst	Date	Time	Batch	Mtd.
Rad Gas Flow Proportional Counting														
GFPC Ra228, Liquid "As Received"														
Radium-228		2.70	+/-1.42	2.11	+/-1.59	3.00	pCi/L			KP1	09/19/24	1201	2661780	1
Radium-226+Radium-228 Calculation "See Parent Products"														
Radium-226+228 Sum		5.48	+/-1.51	2.11	+/-1.76		pCi/L			NXL1	09/19/24	1536	2665122	2
Rad Radium-226														
Lucas Cell, Ra226, Liquid "As Received"														
Radium-226		2.78	+/-0.512	0.227	+/-0.759	1.00	pCi/L			MJ2	09/18/24	0826	2661723	3

The following Analytical Methods were performed

Method	Description
1	EPA 904.0/SW846 9320 Modified
2	Calculation
3	EPA 903.1 Modified

Surrogate/Tracer Recovery	Test	Batch ID	Recovery%	Acceptable Limits
Barium-133 Tracer	GFPC Ra228, Liquid "As Received"	2661780	79.1	(15%-125%)

Notes:

The MDC is a sample specific MDC.
TPU and Counting Uncertainty are calculated at the 95% confidence level (1.96-sigma).

Column headers are defined as follows:

DF: Dilution Factor
DL: Detection Limit
Lc/LC: Critical Level
MDA: Minimum Detectable Activity
MDC: Minimum Detectable Concentration
Mtd.: Method
PF: Prep Factor
RL: Reporting Limit
TPU: Total Propagated Uncertainty

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Report Date: September 20, 2024

Contact: Kristen Jurinko
Project: Kraft - Grumman Road Landfill CCR Groundwater Compliance

Client Sample ID: KRA-GWC-12
Sample ID: 682335008
Matrix: WG
Collect Date: 21-AUG-24
Receive Date: 22-AUG-24
Collector: Client

Project: GPCC00102
Client ID: GPCC001

Parameter	Qualifier	Result	Uncertainty	MDC	TPU	RL	Units	PF	DF	Analyst	Date	Time	Batch	Mtd.
Rad Gas Flow Proportional Counting														
GFPC Ra228, Liquid "As Received"														
Radium-228	U	1.22	+/-0.954	1.50	+/-1.00	3.00	pCi/L			KP1	09/19/24	1201	2661780	1
Radium-226+Radium-228 Calculation "See Parent Products"														
Radium-226+228 Sum		2.54	+/-1.02	1.50	+/-1.09		pCi/L			NXL1	09/19/24	1536	2665122	2
Rad Radium-226														
Lucas Cell, Ra226, Liquid "As Received"														
Radium-226		1.32	+/-0.373	0.202	+/-0.433	1.00	pCi/L			MJ2	09/18/24	0857	2661723	3

The following Analytical Methods were performed

Method	Description
1	EPA 904.0/SW846 9320 Modified
2	Calculation
3	EPA 903.1 Modified

Surrogate/Tracer Recovery	Test	Batch ID	Recovery%	Acceptable Limits
Barium-133 Tracer	GFPC Ra228, Liquid "As Received"	2661780	87.4	(15%-125%)

Notes:

The MDC is a sample specific MDC.
TPU and Counting Uncertainty are calculated at the 95% confidence level (1.96-sigma).

Column headers are defined as follows:

DF: Dilution Factor
DL: Detection Limit
Lc/LC: Critical Level
MDA: Minimum Detectable Activity
MDC: Minimum Detectable Concentration
Mtd.: Method
PF: Prep Factor
RL: Reporting Limit
TPU: Total Propagated Uncertainty

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Report Date: September 20, 2024

Contact: Kristen Jurinko

Project: Kraft - Grumman Road Landfill CCR Groundwater Compliance

Client Sample ID: KRA-GWC-13
Sample ID: 682335009
Matrix: WG
Collect Date: 21-AUG-24
Receive Date: 22-AUG-24
Collector: Client

Project: GPCC00102
Client ID: GPCC001

Parameter	Qualifier	Result	Uncertainty	MDC	TPU	RL	Units	PF	DF	Analyst	Date	Time	Batch	Mtd.
Rad Gas Flow Proportional Counting														
GFPC Ra228, Liquid "As Received"														
Radium-228	U	0.605	+/-1.07	1.87	+/-1.08	3.00	pCi/L			KP1	09/19/24	1201	2661780	1
Radium-226+Radium-228 Calculation "See Parent Products"														
Radium-226+228 Sum	U	1.23	+/-1.10	1.87	+/-1.12		pCi/L			NXL1	09/19/24	1536	2665122	2
Rad Radium-226														
Lucas Cell, Ra226, Liquid "As Received"														
Radium-226		0.629	+/-0.285	0.344	+/-0.303	1.00	pCi/L			MJ2	09/18/24	0857	2661723	3

The following Analytical Methods were performed

Method	Description
1	EPA 904.0/SW846 9320 Modified
2	Calculation
3	EPA 903.1 Modified

Surrogate/Tracer Recovery	Test	Batch ID	Recovery%	Acceptable Limits
Barium-133 Tracer	GFPC Ra228, Liquid "As Received"	2661780	82.7	(15%-125%)

Notes:

The MDC is a sample specific MDC.
TPU and Counting Uncertainty are calculated at the 95% confidence level (1.96-sigma).

Column headers are defined as follows:

DF: Dilution Factor
DL: Detection Limit
Lc/LC: Critical Level
MDA: Minimum Detectable Activity
MDC: Minimum Detectable Concentration
Mtd.: Method
PF: Prep Factor
RL: Reporting Limit
TPU: Total Propagated Uncertainty

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Report Date: September 20, 2024

Contact: Kristen Jurinko
Project: Kraft - Grumman Road Landfill CCR Groundwater Compliance

Client Sample ID: KRA-GWC-14
Sample ID: 682335010
Matrix: WG
Collect Date: 21-AUG-24
Receive Date: 22-AUG-24
Collector: Client

Project: GPCC00102
Client ID: GPCC001

Parameter	Qualifier	Result	Uncertainty	MDC	TPU	RL	Units	PF	DF	Analyst	Date	Time	Batch	Mtd.
Rad Gas Flow Proportional Counting														
GFPC Ra228, Liquid "As Received"														
Radium-228	U	0.622	+/-0.820	1.40	+/-0.835	3.00	pCi/L			KP1	09/19/24	1201	2661780	1
Radium-226+Radium-228 Calculation "See Parent Products"														
Radium-226+228 Sum	U	0.715	+/-0.831	1.40	+/-0.846		pCi/L			NXL1	09/19/24	1536	2665122	2
Rad Radium-226														
Lucas Cell, Ra226, Liquid "As Received"														
Radium-226	U	0.0930	+/-0.136	0.237	+/-0.137	1.00	pCi/L			MJ2	09/18/24	0857	2661723	3

The following Analytical Methods were performed

Method	Description
1	EPA 904.0/SW846 9320 Modified
2	Calculation
3	EPA 903.1 Modified

Surrogate/Tracer Recovery	Test	Batch ID	Recovery%	Acceptable Limits
Barium-133 Tracer	GFPC Ra228, Liquid "As Received"	2661780	88.2	(15%-125%)

Notes:

The MDC is a sample specific MDC.
TPU and Counting Uncertainty are calculated at the 95% confidence level (1.96-sigma).

Column headers are defined as follows:

DF: Dilution Factor
DL: Detection Limit
Lc/LC: Critical Level
MDA: Minimum Detectable Activity
MDC: Minimum Detectable Concentration
Mtd.: Method
PF: Prep Factor
RL: Reporting Limit
TPU: Total Propagated Uncertainty

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Report Date: September 20, 2024

Contact: Kristen Jurinko
Project: Kraft - Grumman Road Landfill CCR Groundwater Compliance

Client Sample ID: KRA-GWC-15
Sample ID: 682335011
Matrix: WG
Collect Date: 21-AUG-24
Receive Date: 22-AUG-24
Collector: Client

Project: GPCC00102
Client ID: GPCC001

Parameter	Qualifier	Result	Uncertainty	MDC	TPU	RL	Units	PF	DF	Analyst	Date	Time	Batch	Mtd.
Rad Gas Flow Proportional Counting														
GFPC Ra228, Liquid "As Received"														
Radium-228	U	1.58	+/-1.08	1.67	+/-1.16	3.00	pCi/L			KP1	09/19/24	1201	2661780	1
Radium-226+Radium-228 Calculation "See Parent Products"														
Radium-226+228 Sum		2.48	+/-1.12	1.67	+/-1.21		pCi/L			NXL1	09/19/24	1536	2665122	2
Rad Radium-226														
Lucas Cell, Ra226, Liquid "As Received"														
Radium-226		0.897	+/-0.297	0.186	+/-0.350	1.00	pCi/L			MJ2	09/18/24	0857	2661723	3

The following Analytical Methods were performed

Method	Description
1	EPA 904.0/SW846 9320 Modified
2	Calculation
3	EPA 903.1 Modified

Surrogate/Tracer Recovery	Test	Batch ID	Recovery%	Acceptable Limits
Barium-133 Tracer	GFPC Ra228, Liquid "As Received"	2661780	88.6	(15%-125%)

Notes:

The MDC is a sample specific MDC.
TPU and Counting Uncertainty are calculated at the 95% confidence level (1.96-sigma).

Column headers are defined as follows:

DF: Dilution Factor
DL: Detection Limit
Lc/LC: Critical Level
MDA: Minimum Detectable Activity
MDC: Minimum Detectable Concentration
Mtd.: Method
PF: Prep Factor
RL: Reporting Limit
TPU: Total Propagated Uncertainty

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Report Date: September 20, 2024

Contact: Kristen Jurinko

Project: Kraft - Grumman Road Landfill CCR Groundwater Compliance

Client Sample ID: KRA-GWC-16
Sample ID: 682335012
Matrix: WG
Collect Date: 21-AUG-24
Receive Date: 22-AUG-24
Collector: Client

Project: GPCC00102
Client ID: GPCC001

Parameter	Qualifier	Result	Uncertainty	MDC	TPU	RL	Units	PF	DF	Analyst	Date	Time	Batch	Mtd.
Rad Gas Flow Proportional Counting														
GFPC Ra228, Liquid "As Received"														
Radium-228	U	1.72	+/-1.51	2.47	+/-1.57	3.00	pCi/L			KP1	09/19/24	1201	2661780	1
Radium-226+Radium-228 Calculation "See Parent Products"														
Radium-226+228 Sum		3.92	+/-1.61	2.47	+/-1.74		pCi/L			NXL1	09/19/24	1536	2665122	2
Rad Radium-226														
Lucas Cell, Ra226, Liquid "As Received"														
Radium-226		2.19	+/-0.568	0.344	+/-0.735	1.00	pCi/L			MJ2	09/15/24	0900	2661946	3

The following Analytical Methods were performed

Method	Description
1	EPA 904.0/SW846 9320 Modified
2	Calculation
3	EPA 903.1 Modified

Surrogate/Tracer Recovery	Test	Batch ID	Recovery%	Acceptable Limits
Barium-133 Tracer	GFPC Ra228, Liquid "As Received"	2661780	82.5	(15%-125%)

Notes:

The MDC is a sample specific MDC.
TPU and Counting Uncertainty are calculated at the 95% confidence level (1.96-sigma).

Column headers are defined as follows:

DF: Dilution Factor
DL: Detection Limit
Lc/LC: Critical Level
MDA: Minimum Detectable Activity
MDC: Minimum Detectable Concentration
Mtd.: Method
PF: Prep Factor
RL: Reporting Limit
TPU: Total Propagated Uncertainty

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Contact: Kristen Jurinko

Project: Kraft - Grumman Road Landfill CCR Groundwater Compliance

Client Sample ID: KRA-GWC-17
Sample ID: 682335013
Matrix: WG
Collect Date: 21-AUG-24
Receive Date: 22-AUG-24
Collector: Client

Project: GPCC00102
Client ID: GPCC001

Parameter	Qualifier	Result	Uncertainty	MDC	TPU	RL	Units	PF	DF	Analyst	Date	Time	Batch	Mtd.
Rad Gas Flow Proportional Counting														
GFPC Ra228, Liquid "As Received"														
Radium-228		1.56	+/-0.983	1.43	+/-1.06	3.00	pCi/L			KP1	09/19/24	1201	2661780	1
Radium-226+Radium-228 Calculation "See Parent Products"														
Radium-226+228 Sum		2.46	+/-1.04	1.43	+/-1.13		pCi/L			NXL1	09/19/24	1536	2665122	2
Rad Radium-226														
Lucas Cell, Ra226, Liquid "As Received"														
Radium-226		0.895	+/-0.337	0.236	+/-0.381	1.00	pCi/L			MJ2	09/15/24	0900	2661946	3

The following Analytical Methods were performed

Method	Description
1	EPA 904.0/SW846 9320 Modified
2	Calculation
3	EPA 903.1 Modified

Surrogate/Tracer Recovery	Test	Batch ID	Recovery%	Acceptable Limits
Barium-133 Tracer	GFPC Ra228, Liquid "As Received"	2661780	72.3	(15%-125%)

Notes:

The MDC is a sample specific MDC.
TPU and Counting Uncertainty are calculated at the 95% confidence level (1.96-sigma).

Column headers are defined as follows:

DF: Dilution Factor
DL: Detection Limit
Lc/LC: Critical Level
MDA: Minimum Detectable Activity
MDC: Minimum Detectable Concentration
Mtd.: Method
PF: Prep Factor
RL: Reporting Limit
TPU: Total Propagated Uncertainty

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Report Date: September 20, 2024

Contact: Kristen Jurinko

Project: Kraft - Grumman Road Landfill CCR Groundwater Compliance

Client Sample ID: KRA-GWC-20
Sample ID: 682335014
Matrix: WG
Collect Date: 21-AUG-24
Receive Date: 22-AUG-24
Collector: Client

Project: GPCC00102
Client ID: GPCC001

Parameter	Qualifier	Result	Uncertainty	MDC	TPU	RL	Units	PF	DF	Analyst	Date	Time	Batch	Mtd.
Rad Gas Flow Proportional Counting														
GFPC Ra228, Liquid "As Received"														
Radium-228	U	1.71	+/-1.20	1.84	+/-1.28	3.00	pCi/L			KP1	09/19/24	1417	2661780	1
Radium-226+Radium-228 Calculation "See Parent Products"														
Radium-226+228 Sum		4.17	+/-1.37	1.84	+/-1.48		pCi/L			NXL1	09/19/24	1536	2665122	2
Rad Radium-226														
Lucas Cell, Ra226, Liquid "As Received"														
Radium-226		2.46	+/-0.649	0.400	+/-0.747	1.00	pCi/L			MJ2	09/15/24	0900	2661946	3

The following Analytical Methods were performed

Method	Description
1	EPA 904.0/SW846 9320 Modified
2	Calculation
3	EPA 903.1 Modified

Surrogate/Tracer Recovery	Test	Batch ID	Recovery%	Acceptable Limits
Barium-133 Tracer	GFPC Ra228, Liquid "As Received"	2661780	86.8	(15%-125%)

Notes:

The MDC is a sample specific MDC.
TPU and Counting Uncertainty are calculated at the 95% confidence level (1.96-sigma).

Column headers are defined as follows:

DF: Dilution Factor
DL: Detection Limit
Lc/LC: Critical Level
MDA: Minimum Detectable Activity
MDC: Minimum Detectable Concentration
Mtd.: Method
PF: Prep Factor
RL: Reporting Limit
TPU: Total Propagated Uncertainty

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Report Date: September 20, 2024

Contact: Kristen Jurinko

Project: Kraft - Grumman Road Landfill CCR Groundwater Compliance

Client Sample ID: KRA-MW-23D
Sample ID: 682335015
Matrix: WG
Collect Date: 21-AUG-24
Receive Date: 22-AUG-24
Collector: Client

Project: GPCC00102
Client ID: GPCC001

Parameter	Qualifier	Result	Uncertainty	MDC	TPU	RL	Units	PF	DF	Analyst	Date	Time	Batch	Mtd.
Rad Gas Flow Proportional Counting														
GFPC Ra228, Liquid "As Received"														
Radium-228	U	-0.0464	+/-0.702	1.41	+/-0.702	3.00	pCi/L			KP1	09/19/24	1201	2661780	1
Radium-226+Radium-228 Calculation "See Parent Products"														
Radium-226+228 Sum	U	0.517	+/-0.753	1.41	+/-0.763		pCi/L			NXL1	09/19/24	1536	2665122	2
Rad Radium-226														
Lucas Cell, Ra226, Liquid "As Received"														
Radium-226		0.517	+/-0.273	0.292	+/-0.297	1.00	pCi/L			MJ2	09/15/24	0900	2661946	3

The following Analytical Methods were performed

Method	Description
1	EPA 904.0/SW846 9320 Modified
2	Calculation
3	EPA 903.1 Modified

Surrogate/Tracer Recovery	Test	Batch ID	Recovery%	Acceptable Limits
Barium-133 Tracer	GFPC Ra228, Liquid "As Received"	2661780	75.8	(15%-125%)

Notes:

The MDC is a sample specific MDC.
TPU and Counting Uncertainty are calculated at the 95% confidence level (1.96-sigma).

Column headers are defined as follows:

DF: Dilution Factor
DL: Detection Limit
Lc/LC: Critical Level
MDA: Minimum Detectable Activity
MDC: Minimum Detectable Concentration
Mtd.: Method
PF: Prep Factor
RL: Reporting Limit
TPU: Total Propagated Uncertainty

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Report Date: September 20, 2024

Contact: Kristen Jurinko

Project: Kraft - Grumman Road Landfill CCR Groundwater Compliance

Client Sample ID: KRA-MW-24D
Sample ID: 682335016
Matrix: WG
Collect Date: 21-AUG-24
Receive Date: 22-AUG-24
Collector: Client

Project: GPCC00102
Client ID: GPCC001

Parameter	Qualifier	Result	Uncertainty	MDC	TPU	RL	Units	PF	DF	Analyst	Date	Time	Batch	Mtd.
Rad Gas Flow Proportional Counting														
GFPC Ra228, Liquid "As Received"														
Radium-228	U	-0.341	+/-0.740	1.55	+/-0.740	3.00	pCi/L			KP1	09/19/24	1201	2661780	1
Radium-226+Radium-228 Calculation "See Parent Products"														
Radium-226+228 Sum		3.94	+/-1.05	1.55	+/-1.27		pCi/L			NXL1	09/19/24	1536	2665122	2
Rad Radium-226														
Lucas Cell, Ra226, Liquid "As Received"														
Radium-226		3.94	+/-0.743	0.337	+/-1.03	1.00	pCi/L			MJ2	09/15/24	0900	2661946	3

The following Analytical Methods were performed

Method	Description
1	EPA 904.0/SW846 9320 Modified
2	Calculation
3	EPA 903.1 Modified

Surrogate/Tracer Recovery	Test	Batch ID	Recovery%	Acceptable Limits
Barium-133 Tracer	GFPC Ra228, Liquid "As Received"	2661780	81	(15%-125%)

Notes:

The MDC is a sample specific MDC.
TPU and Counting Uncertainty are calculated at the 95% confidence level (1.96-sigma).

Column headers are defined as follows:

DF: Dilution Factor
DL: Detection Limit
Lc/LC: Critical Level
MDA: Minimum Detectable Activity
MDC: Minimum Detectable Concentration
Mtd.: Method
PF: Prep Factor
RL: Reporting Limit
TPU: Total Propagated Uncertainty

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Certificate of Analysis

Company : Georgia Power Company
Address : 241 Ralph McGill Blvd NE
Bin 10160
Atlanta, Georgia 30308

Report Date: September 20, 2024

Contact: Kristen Jurinko

Project: Kraft - Grumman Road Landfill CCR Groundwater Compliance

Client Sample ID: KRA-MW-25D
Sample ID: 682335017
Matrix: WG
Collect Date: 21-AUG-24
Receive Date: 22-AUG-24
Collector: Client

Project: GPCC00102
Client ID: GPCC001

Parameter	Qualifier	Result	Uncertainty	MDC	TPU	RL	Units	PF	DF	Analyst	Date	Time	Batch	Mtd.
Rad Gas Flow Proportional Counting														
GFPC Ra228, Liquid "As Received"														
Radium-228	U	0.822	+/-1.01	1.72	+/-1.04	3.00	pCi/L			KP1	09/19/24	1201	2661780	1
Radium-226+Radium-228 Calculation "See Parent Products"														
Radium-226+228 Sum	U	1.22	+/-1.04	1.72	+/-1.07		pCi/L			NXL1	09/19/24	1536	2665122	2
Rad Radium-226														
Lucas Cell, Ra226, Liquid "As Received"														
Radium-226		0.403	+/-0.235	0.237	+/-0.252	1.00	pCi/L			MJ2	09/15/24	0900	2661946	3

The following Analytical Methods were performed

Method	Description
1	EPA 904.0/SW846 9320 Modified
2	Calculation
3	EPA 903.1 Modified

Surrogate/Tracer Recovery	Test	Batch ID	Recovery%	Acceptable Limits
Barium-133 Tracer	GFPC Ra228, Liquid "As Received"	2661780	81.3	(15%-125%)

Notes:

The MDC is a sample specific MDC.
TPU and Counting Uncertainty are calculated at the 95% confidence level (1.96-sigma).

Column headers are defined as follows:

DF: Dilution Factor
DL: Detection Limit
Lc/LC: Critical Level
MDA: Minimum Detectable Activity
MDC: Minimum Detectable Concentration
Mtd.: Method
PF: Prep Factor
RL: Reporting Limit
TPU: Total Propagated Uncertainty

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Report Date: September 20, 2024

Contact: Kristen Jurinko

Project: Kraft - Grumman Road Landfill CCR Groundwater Compliance

Client Sample ID: KRA-GRL-FD-03
Sample ID: 682335018
Matrix: WG
Collect Date: 21-AUG-24
Receive Date: 22-AUG-24
Collector: Client

Project: GPCC00102
Client ID: GPCC001

Parameter	Qualifier	Result	Uncertainty	MDC	TPU	RL	Units	PF	DF	Analyst	Date	Time	Batch	Mtd.
Rad Gas Flow Proportional Counting														
GFPC Ra228, Liquid "As Received"														
Radium-228	U	0.513	+/-0.816	1.43	+/-0.826	3.00	pCi/L			KP1	09/19/24	1201	2661780	1
Radium-226+Radium-228 Calculation "See Parent Products"														
Radium-226+228 Sum	U	1.31	+/-0.928	1.43	+/-0.949		pCi/L			NXL1	09/19/24	1536	2665122	2
Rad Radium-226														
Lucas Cell, Ra226, Liquid "As Received"														
Radium-226		0.799	+/-0.443	0.575	+/-0.466	1.00	pCi/L			MJ2	09/15/24	0901	2661946	3

The following Analytical Methods were performed

Method	Description
1	EPA 904.0/SW846 9320 Modified
2	Calculation
3	EPA 903.1 Modified

Surrogate/Tracer Recovery	Test	Batch ID	Recovery%	Acceptable Limits
Barium-133 Tracer	GFPC Ra228, Liquid "As Received"	2661780	81.5	(15%-125%)

Notes:

The MDC is a sample specific MDC.
TPU and Counting Uncertainty are calculated at the 95% confidence level (1.96-sigma).

Column headers are defined as follows:

DF: Dilution Factor
DL: Detection Limit
Lc/LC: Critical Level
MDA: Minimum Detectable Activity
MDC: Minimum Detectable Concentration
Mtd.: Method
PF: Prep Factor
RL: Reporting Limit
TPU: Total Propagated Uncertainty

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Report Date: September 20, 2024

Contact: Kristen Jurinko

Project: Kraft - Grumman Road Landfill CCR Groundwater Compliance

Client Sample ID: KRA-GRL-FB-02
Sample ID: 682335019
Matrix: WQ
Collect Date: 21-AUG-24
Receive Date: 22-AUG-24
Collector: Client

Project: GPCC00102
Client ID: GPCC001

Parameter	Qualifier	Result	Uncertainty	MDC	TPU	RL	Units	PF	DF	Analyst	Date	Time	Batch	Mtd.
Rad Gas Flow Proportional Counting														
GFPC Ra228, Liquid "As Received"														
Radium-228	U	1.14	+/-1.00	1.60	+/-1.04	3.00	pCi/L			KP1	09/19/24	1202	2661780	1
Radium-226+Radium-228 Calculation "See Parent Products"														
Radium-226+228 Sum		1.62	+/-1.07	1.60	+/-1.11		pCi/L			NXL1	09/19/24	1536	2665122	2
Rad Radium-226														
Lucas Cell, Ra226, Liquid "As Received"														
Radium-226	U	0.482	+/-0.378	0.568	+/-0.384	1.00	pCi/L			MJ2	09/15/24	0901	2661946	3

The following Analytical Methods were performed

Method	Description
1	EPA 904.0/SW846 9320 Modified
2	Calculation
3	EPA 903.1 Modified

Surrogate/Tracer Recovery	Test	Batch ID	Recovery%	Acceptable Limits
Barium-133 Tracer	GFPC Ra228, Liquid "As Received"	2661780	72.1	(15%-125%)

Notes:

The MDC is a sample specific MDC.
TPU and Counting Uncertainty are calculated at the 95% confidence level (1.96-sigma).

Column headers are defined as follows:

DF: Dilution Factor
DL: Detection Limit
Lc/LC: Critical Level
MDA: Minimum Detectable Activity
MDC: Minimum Detectable Concentration
Mtd.: Method
PF: Prep Factor
RL: Reporting Limit
TPU: Total Propagated Uncertainty

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Report Date: September 20, 2024

Contact: Kristen Jurinko
Project: Kraft - Grumman Road Landfill CCR Groundwater Compliance

Client Sample ID: KRA-GRL-FB-03
Sample ID: 682335020
Matrix: WQ
Collect Date: 21-AUG-24
Receive Date: 22-AUG-24
Collector: Client

Project: GPCC00102
Client ID: GPCC001

Parameter	Qualifier	Result	Uncertainty	MDC	TPU	RL	Units	PF	DF	Analyst	Date	Time	Batch	Mtd.
Rad Gas Flow Proportional Counting														
GFPC Ra228, Liquid "As Received"														
Radium-228	U	-0.481	+/-1.17	2.39	+/-1.18	3.00	pCi/L			KP1	09/19/24	1202	2661780	1
Radium-226+Radium-228 Calculation "See Parent Products"														
Radium-226+228 Sum	U	0.0690	+/-1.19	2.39	+/-1.19		pCi/L			NXL1	09/19/24	1536	2665122	2
Rad Radium-226														
Lucas Cell, Ra226, Liquid "As Received"														
Radium-226	U	0.0690	+/-0.214	0.424	+/-0.214	1.00	pCi/L			MJ2	09/15/24	0933	2661946	3

The following Analytical Methods were performed

Method	Description
1	EPA 904.0/SW846 9320 Modified
2	Calculation
3	EPA 903.1 Modified

Surrogate/Tracer Recovery	Test	Batch ID	Recovery%	Acceptable Limits
Barium-133 Tracer	GFPC Ra228, Liquid "As Received"	2661780	63.6	(15%-125%)

Notes:

The MDC is a sample specific MDC.
TPU and Counting Uncertainty are calculated at the 95% confidence level (1.96-sigma).

Column headers are defined as follows:

DF: Dilution Factor
DL: Detection Limit
Lc/LC: Critical Level
MDA: Minimum Detectable Activity
MDC: Minimum Detectable Concentration
Mtd.: Method
PF: Prep Factor
RL: Reporting Limit
TPU: Total Propagated Uncertainty

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Report Date: September 20, 2024

Contact: Kristen Jurinko
Project: Kraft - Grumman Road Landfill CCR Groundwater Compliance

Client Sample ID: KRA-GRL-EB-06
Sample ID: 682335021
Matrix: WQ
Collect Date: 21-AUG-24
Receive Date: 22-AUG-24
Collector: Client

Project: GPCC00102
Client ID: GPCC001

Parameter	Qualifier	Result	Uncertainty	MDC	TPU	RL	Units	PF	DF	Analyst	Date	Time	Batch	Mtd.
Rad Gas Flow Proportional Counting														
GFPC Ra228, Liquid "As Received"														
Radium-228	U	-0.393	+/-0.874	1.78	+/-0.874	3.00	pCi/L			KP1	09/19/24	1202	2661780	1
Radium-226+Radium-228 Calculation "See Parent Products"														
Radium-226+228 Sum	U	0.470	+/-0.943	1.78	+/-0.948		pCi/L			NXL1	09/19/24	1534	2665125	2
Rad Radium-226														
Lucas Cell, Ra226, Liquid "As Received"														
Radium-226	U	0.470	+/-0.355	0.521	+/-0.365	1.00	pCi/L			MJ2	09/15/24	0933	2661946	3

The following Analytical Methods were performed

Method	Description
1	EPA 904.0/SW846 9320 Modified
2	Calculation
3	EPA 903.1 Modified

Surrogate/Tracer Recovery	Test	Batch ID	Recovery%	Acceptable Limits
Barium-133 Tracer	GFPC Ra228, Liquid "As Received"	2661780	76	(15%-125%)

Notes:

The MDC is a sample specific MDC.
TPU and Counting Uncertainty are calculated at the 95% confidence level (1.96-sigma).

Column headers are defined as follows:

DF: Dilution Factor
DL: Detection Limit
Lc/LC: Critical Level
MDA: Minimum Detectable Activity
MDC: Minimum Detectable Concentration
Mtd.: Method
PF: Prep Factor
RL: Reporting Limit
TPU: Total Propagated Uncertainty

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Report Date: September 20, 2024

Contact: Kristen Jurinko

Project: Kraft - Grumman Road Landfill CCR Groundwater Compliance

Client Sample ID: KRA-GWC-21
Sample ID: 682335022
Matrix: WG
Collect Date: 22-AUG-24
Receive Date: 22-AUG-24
Collector: Client

Project: GPCC00102
Client ID: GPCC001

Parameter	Qualifier	Result	Uncertainty	MDC	TPU	RL	Units	PF	DF	Analyst	Date	Time	Batch	Mtd.
Rad Gas Flow Proportional Counting														
GFPC Ra228, Liquid "As Received"														
Radium-228		2.22	+/-1.16	1.70	+/-1.30	3.00	pCi/L			KP1	09/19/24	1202	2661780	1
Radium-226+Radium-228 Calculation "See Parent Products"														
Radium-226+228 Sum		4.52	+/-1.31	1.70	+/-1.50		pCi/L			NXL1	09/19/24	1534	2665125	2
Rad Radium-226														
Lucas Cell, Ra226, Liquid "As Received"														
Radium-226		2.29	+/-0.605	0.308	+/-0.755	1.00	pCi/L			MJ2	09/15/24	0933	2661946	3

The following Analytical Methods were performed

Method	Description
1	EPA 904.0/SW846 9320 Modified
2	Calculation
3	EPA 903.1 Modified

Surrogate/Tracer Recovery	Test	Batch ID	Recovery%	Acceptable Limits
Barium-133 Tracer	GFPC Ra228, Liquid "As Received"	2661780	86.3	(15%-125%)

Notes:

The MDC is a sample specific MDC.
TPU and Counting Uncertainty are calculated at the 95% confidence level (1.96-sigma).

Column headers are defined as follows:

DF: Dilution Factor
DL: Detection Limit
Lc/LC: Critical Level
MDA: Minimum Detectable Activity
MDC: Minimum Detectable Concentration
Mtd.: Method
PF: Prep Factor
RL: Reporting Limit
TPU: Total Propagated Uncertainty

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Atlanta, Georgia 30308

Report Date: September 20, 2024

Contact: Kristen Jurinko

Project: Kraft - Grumman Road Landfill CCR Groundwater Compliance

Client Sample ID: KRA-GRL-FD-01
Sample ID: 682335023
Matrix: WG
Collect Date: 22-AUG-24
Receive Date: 22-AUG-24
Collector: Client

Project: GPCC00102
Client ID: GPCC001

Parameter	Qualifier	Result	Uncertainty	MDC	TPU	RL	Units	PF	DF	Analyst	Date	Time	Batch	Mtd.
Rad Gas Flow Proportional Counting														
GFPC Ra228, Liquid "As Received"														
Radium-228	U	1.19	+/-1.22	2.03	+/-1.26	3.00	pCi/L			KP1	09/19/24	1202	2661780	1
Radium-226+Radium-228 Calculation "See Parent Products"														
Radium-226+228 Sum		2.65	+/-1.29	2.03	+/-1.36		pCi/L			NXL1	09/19/24	1534	2665125	2
Rad Radium-226														
Lucas Cell, Ra226, Liquid "As Received"														
Radium-226		1.46	+/-0.432	0.243	+/-0.526	1.00	pCi/L			MJ2	09/15/24	0933	2661946	3

The following Analytical Methods were performed

Method	Description
1	EPA 904.0/SW846 9320 Modified
2	Calculation
3	EPA 903.1 Modified

Surrogate/Tracer Recovery	Test	Batch ID	Recovery%	Acceptable Limits
Barium-133 Tracer	GFPC Ra228, Liquid "As Received"	2661780	86.2	(15%-125%)

Notes:

The MDC is a sample specific MDC.
TPU and Counting Uncertainty are calculated at the 95% confidence level (1.96-sigma).

Column headers are defined as follows:

DF: Dilution Factor
DL: Detection Limit
Lc/LC: Critical Level
MDA: Minimum Detectable Activity
MDC: Minimum Detectable Concentration
Mtd.: Method
PF: Prep Factor
RL: Reporting Limit
TPU: Total Propagated Uncertainty

Product: **Radium-226+Radium-228 Calculation**
Analytical Method: Calculation
Analytical Procedure: GL-RAD-D-003 REV# 45
Analytical Batch: 2665122

The following samples were analyzed using the above methods and analytical procedure(s).

GEL Sample ID#	Client Sample Identification
682335001	KRA-GWC-9
682335002	KRA-GRL-EB-05
682335003	KRA-GWC-22
682335004	KRA-GWA-8
682335005	KRA-GWB-5R
682335006	KRA-GWC-2
682335007	KRA-GWC-11
682335008	KRA-GWC-12
682335009	KRA-GWC-13
682335010	KRA-GWC-14
682335011	KRA-GWC-15
682335012	KRA-GWC-16
682335013	KRA-GWC-17
682335014	KRA-GWC-20
682335015	KRA-MW-23D
682335016	KRA-MW-24D
682335017	KRA-MW-25D
682335018	KRA-GRL-FD-03
682335019	KRA-GRL-FB-02
682335020	KRA-GRL-FB-03

Data Summary:

There are no exceptions, anomalies or deviations from the specified methods. All sample data provided in this report met the acceptance criteria specified in the analytical methods and procedures for initial calibration, continuing calibration, instrument controls and process controls where applicable.

Product: **Radium-226+Radium-228 Calculation**
Analytical Method: Calculation
Analytical Procedure: GL-RAD-D-003 REV# 45
Analytical Batch: 2665125

The following samples were analyzed using the above methods and analytical procedure(s).

GEL Sample ID#	Client Sample Identification
682335021	KRA-GRL-EB-06
682335022	KRA-GWC-21

682335023	KRA-GRL-FD-01

Data Summary:

There are no exceptions, anomalies or deviations from the specified methods. All sample data provided in this report met the acceptance criteria specified in the analytical methods and procedures for initial calibration, continuing calibration, instrument controls and process controls where applicable.

Product: **GFPC Ra228, Liquid**
Analytical Method: EPA 904.0/SW846 9320 Modified
Analytical Procedure: GL-RAD-A-063 REV# 5
Analytical Batch: 2661779

The following samples were analyzed using the above methods and analytical procedure(s).

GEL Sample ID#	Client Sample Identification
682335001	KRA-GWC-9
682335002	KRA-GRL-EB-05
682335003	KRA-GWC-22
1205832461	Method Blank (MB)
1205832462	682332001(NonSDG) Sample Duplicate (DUP)
1205832463	Laboratory Control Sample (LCS)

The samples in this SDG were analyzed on an "as received" basis.

Data Summary:

All sample data provided in this report met the acceptance criteria specified in the analytical methods and procedures for initial calibration, continuing calibration, instrument controls and process controls where applicable, with the following exceptions.

Technical Information

Recounts
Sample 1205832461 (MB) was recounted due to a suspected blank false positive. The recount is reported.

Product: **GFPC Ra228, Liquid**
Analytical Method: EPA 904.0/SW846 9320 Modified
Analytical Procedure: GL-RAD-A-063 REV# 5
Analytical Batch: 2661780

The following samples were analyzed using the above methods and analytical procedure(s).

GEL Sample ID#	Client Sample Identification
682335004	KRA-GWA-8
682335005	KRA-GWB-5R
682335006	KRA-GWC-2
682335007	KRA-GWC-11
682335008	KRA-GWC-12

682335009	KRA-GWC-13
682335010	KRA-GWC-14
682335011	KRA-GWC-15
682335012	KRA-GWC-16
682335013	KRA-GWC-17
682335014	KRA-GWC-20
682335015	KRA-MW-23D
682335016	KRA-MW-24D
682335017	KRA-MW-25D
682335018	KRA-GRL-FD-03
682335019	KRA-GRL-FB-02
682335020	KRA-GRL-FB-03
682335021	KRA-GRL-EB-06
682335022	KRA-GWC-21
682335023	KRA-GRL-FD-01
1205832464	Method Blank (MB)
1205832465	682335004(KRA-GWA-8) Sample Duplicate (DUP)
1205832466	Laboratory Control Sample (LCS)

The samples in this SDG were analyzed on an "as received" basis.

Data Summary:

All sample data provided in this report met the acceptance criteria specified in the analytical methods and procedures for initial calibration, continuing calibration, instrument controls and process controls where applicable, with the following exceptions.

Preparation Information

Homogenous Matrix
Samples 682335005 (KRA-GWB-5R), 682335011 (KRA-GWC-15), 682335012 (KRA-GWC-16) and 682335014 (KRA-GWC-20) were non-homogenous matrix. 682335005: yellow orange 11,12,14: slightly yellow 682335005 (KRA-GWB-5R), 682335011 (KRA-GWC-15), 682335012 (KRA-GWC-16) and 682335014 (KRA-GWC-20).

Technical Information

Recounts
Sample 682335014 (KRA-GWC-20) was recounted to verify sample results. Recount is reported.

Product: **Lucas Cell, Ra226, Liquid**
Analytical Method: EPA 903.1 Modified
Analytical Procedure: GL-RAD-A-008 REV# 15
Analytical Batch: 2661723

The following samples were analyzed using the above methods and analytical procedure(s).

GEL Sample ID#	Client Sample Identification
682335001	KRA-GWC-9
682335002	KRA-GRL-EB-05
682335003	KRA-GWC-22
682335004	KRA-GWA-8
682335005	KRA-GWB-5R
682335006	KRA-GWC-2

682335007	KRA-GWC-11
682335008	KRA-GWC-12
682335009	KRA-GWC-13
682335010	KRA-GWC-14
682335011	KRA-GWC-15
1205832298	Method Blank (MB)
1205832299	681548001(NonSDG) Sample Duplicate (DUP)
1205832300	681548001(NonSDG) Matrix Spike (MS)
1205832301	Laboratory Control Sample (LCS)

The samples in this SDG were analyzed on an "as received" basis.

Data Summary:

All sample data provided in this report met the acceptance criteria specified in the analytical methods and procedures for initial calibration, continuing calibration, instrument controls and process controls where applicable, with the following exceptions.

Quality Control (QC) Information

Duplication Criteria between QC Sample and Duplicate Sample
The Sample and the Duplicate, (See Below), did not meet the relative percent difference requirement; however, they do meet the relative error ratio requirement with the value listed below.

Sample	Analyte	Value
1205832299 (Non SDG 681548001DUP)	Radium-226	RPD 32.2* (0.00%-20.00%) RER 1.25 (0-3)

Miscellaneous Information

Additional Comments
The matrix spike, 1205832300 (Non SDG 681548001MS), aliquot was reduced to conserve sample volume.

Product: **Lucas Cell, Ra226, Liquid**
Analytical Method: EPA 903.1 Modified
Analytical Procedure: GL-RAD-A-008 REV# 15
Analytical Batch: 2661946

The following samples were analyzed using the above methods and analytical procedure(s).

GEL Sample ID#	Client Sample Identification
682335012	KRA-GWC-16
682335013	KRA-GWC-17
682335014	KRA-GWC-20
682335015	KRA-MW-23D
682335016	KRA-MW-24D
682335017	KRA-MW-25D
682335018	KRA-GRL-FD-03
682335019	KRA-GRL-FB-02
682335020	KRA-GRL-FB-03
682335021	KRA-GRL-EB-06
682335022	KRA-GWC-21

682335023	KRA-GRL-FD-01
1205832851	Method Blank (MB)
1205832852	681631001(NonSDG) Sample Duplicate (DUP)
1205832853	681631001(NonSDG) Matrix Spike (MS)
1205832854	Laboratory Control Sample (LCS)

The samples in this SDG were analyzed on an "as received" basis.

Data Summary:

All sample data provided in this report met the acceptance criteria specified in the analytical methods and procedures for initial calibration, continuing calibration, instrument controls and process controls where applicable, with the following exceptions.

Quality Control (QC) Information

Method Blank Criteria
The blank result (See Below) is greater than the MDC but less than the required detection limit.

Sample	Analyte	Value
1205832851 (MB)	Radium-226	Result: 0.338 pCi/L > MDA: 0.324 pCi/L <= RDL: 1.00 pCi/L

Miscellaneous Information

Additional Comments
The matrix spike, 1205832853 (Non SDG 681631001MS), aliquot was reduced to conserve sample volume.

Certification Statement

Where the analytical method has been performed under NELAP certification, the analysis has met all of the requirements of the NELAC standard unless otherwise noted in the analytical case narrative.

QC Summary

Client : **Georgia Power Company**
241 Ralph McGill Blvd NE
Bin 10160
Atlanta, Georgia

Contact: **Kristen Jurinko**

Workorder: **682335**

Report Date: September 20, 2024

Parmname	NOM	Sample	Qual	QC	Units	RPD%	REC%	Range	Anlst	Date Time
Rad Gas Flow										
Batch 2661779										
QC1205832462 682332001 DUP										
Radium-228	U	-0.439	U	0.722	pCi/L	0		N/A	KP1	09/18/2412:38
	Uncert:	+/-1.02		+/-1.15						
	TPU:	+/-1.02		+/-1.17						
QC1205832463 LCS										
Radium-228	69.2			75.3	pCi/L		109	(75%-125%)	KP1	09/18/2412:38
	Uncert:			+/-4.20						
	TPU:			+/-19.7						
QC1205832461 MB										
Radium-228			U	2.10	pCi/L				KP1	09/18/2415:07
	Uncert:			+/-1.40						
	TPU:			+/-1.50						
Batch 2661780										
QC1205832465 682335004 DUP										
Radium-228		3.23	U	1.64	pCi/L	65		(0% - 100%)	KP1	09/19/2412:15
	Uncert:	+/-1.51		+/-1.36						
	TPU:	+/-1.73		+/-1.43						
QC1205832466 LCS										
Radium-228	69.8			61.8	pCi/L		88.5	(75%-125%)	KP1	09/19/2412:54
	Uncert:			+/-4.56						
	TPU:			+/-16.5						
QC1205832464 MB										
Radium-228			U	1.40	pCi/L				KP1	09/19/2412:01
	Uncert:			+/-1.36						
	TPU:			+/-1.40						
Rad Ra-226										
Batch 2661723										
QC1205832299 681548001 DUP										
Radium-226		1.18		1.64	pCi/L	32.2*		(0%-20%)	MJ2	09/18/2408:57
	Uncert:	+/-0.424		+/-0.416						
	TPU:	+/-0.494		+/-0.511						
QC1205832301 LCS										
Radium-226	27.3			29.7	pCi/L		109	(75%-125%)	MJ2	09/18/2408:57
	Uncert:			+/-1.76						
	TPU:			+/-5.83						
QC1205832298 MB										
Radium-226			U	0.385	pCi/L				MJ2	09/18/2408:57
	Uncert:			+/-0.302						
	TPU:			+/-0.315						
QC1205832300 681548001 MS										
Radium-226	153	1.18		177	pCi/L		115	(75%-125%)	MJ2	09/18/2408:57

QC Summary

Workorder: **682335**

Parmname	NOM	Sample	Qual	QC	Units	RPD%	REC%	Range	Anlst	Date Time
Rad Ra-226										
Batch 2661723										
	Uncert:	+/-0.424		+/-10.8						
	TPU:	+/-0.494		+/-34.3						
Batch 2661946										
QC1205832852 681631001 DUP										
Radium-226	U	0.276	U	0.260	pCi/L	0		N/A	MJ2	09/15/2409:33
	Uncert:	+/-0.232		+/-0.254						
	TPU:	+/-0.236		+/-0.260						
QC1205832854 LCS										
Radium-226	27.2			25.7	pCi/L		94.3	(75%-125%)	MJ2	09/15/2409:33
	Uncert:			+/-1.76						
	TPU:			+/-5.79						
QC1205832851 MB										
Radium-226				0.338	pCi/L				MJ2	09/15/2409:33
	Uncert:			+/-0.248						
	TPU:			+/-0.253						
QC1205832853 681631001 MS										
Radium-226	135 U	0.276		166	pCi/L		123	(75%-125%)	MJ2	09/15/2409:33
	Uncert:	+/-0.232		+/-11.2						
	TPU:	+/-0.236		+/-31.4						

Notes:

TPU and Counting Uncertainty are calculated at the 95% confidence level (1.96-sigma).

The Qualifiers in this report are defined as follows:

U	Analyte was analyzed for, but not detected above the MDL, MDA, MDC or LOD.
J	Value is estimated
X	Consult Case Narrative, Data Summary package, or Project Manager concerning this qualifier
H	Analytical holding time was exceeded
<	Result is less than value reported
>	Result is greater than value reported
UI	Gamma Spectroscopy--Uncertain identification
BD	Results are either below the MDC or tracer recovery is low
h	Preparation or preservation holding time was exceeded
R	Sample results are rejected
^	RPD of sample and duplicate evaluated using +/-RL. Concentrations are <5X the RL. Qualifier Not Applicable for Radiochemistry.
N/A	RPD or %Recovery limits do not apply.
ND	Analyte concentration is not detected above the detection limit
M	M if above MDC and less than LLD
NJ	Consult Case Narrative, Data Summary package, or Project Manager concerning this qualifier
FA	Failed analysis.
UJ	Gamma Spectroscopy--Uncertain identification
Q	One or more quality control criteria have not been met. Refer to the applicable narrative or DER.
K	Analyte present. Reported value may be biased high. Actual value is expected to be lower.
UL	Not considered detected. The associated number is the reported concentration, which may be inaccurate due to a low bias.

QC Summary

Workorder: **682335**

Parmname	NOM	Sample	Qual	QC	Units	RPD%	REC%	Range	Anlst	Date	Time

L Analyte present. Reported value may be biased low. Actual value is expected to be higher.

N1 See case narrative

Y Other specific qualifiers were required to properly define the results. Consult case narrative.

** Analyte is a Tracer compound

M REMP Result > MDC/CL and < RDL

J See case narrative for an explanation

N/A indicates that spike recovery limits do not apply when sample concentration exceeds spike conc. by a factor of 4 or more or %RPD not applicable.
** Indicates analyte is a surrogate/tracer compound.
^ The Relative Percent Difference (RPD) obtained from the sample duplicate (DUP) is evaluated against the acceptence criteria when the sample is greater than five times (5X) the contract required detection limit (RL). In cases where either the sample or duplicate value is less than 5X the RL, a control limit of +/- the RL is used to evaluate the DUP result.
For PS, PSD, and SDILT results, the values listed are the measured amounts, not final concentrations.

Where the analytical method has been performed under NELAP certification, the analysis has met all of the requirements of the NELAC standard unless qualified on the QC Summary.

682330/682335

Page: 1 of 3
Project #
GEL Quote #:
COC Number (1):
PO Number: GPC82177-0004

GEL Laboratories LLC
gel.com | Chemistry | Radiochemistry | Radiobioassay | Specialty Analytics

Chain of Custody and Analytical Request

GEL Work Order Number: **GEL Project Manager: Erin Trent**

GEL Laboratories, LLC
2040 Savage Road
Charleston, SC 29407
Phone: (843) 556-8171
Fax: (843) 766-1178

Client Name: GA Power — Phone # 404-506-7116
Project/Site Name: Plant Kraft - Grumman Road Landfill — Fax #
Address: 241 Ralph McGill Blvd SE, Atlanta GA 30308
Collected By: T. Goble / J. Berichoff / D. Johnson — Send Results To: SCS & ACC Contacts

Sample Analysis Requested (5) (Fill in the number of containers for each test)

Sample ID (* For composites - indicate start and stop date/time)	*Date Collected (mm-dd-yy)	*Time Collected (Military) (hhmm)	QC Code (2)	Field Filtered (3)	Sample Matrix (4)	Should this sample be considered: Radioactive (If yes, please supply isotopic info.)	Should this sample be considered: (7) Known or possible Hazards	Total number of containers	Cl, F, SO4, TDS EPA 300, SM 2540C	NI Metals * EPA 6020, 6010, 7470	NI Radium 226 & 228 SW-846 9315, 9320	<-- Preservative Type (6)	Comments
KRA- GWC-9	08-21-24	0930	G	N	WG	N	N	6	✓	✓	✓		Note: extra sample is required for sample specific QC Task_Code: KRA-CCR-ASSMT-2024S2
KRA- GRL-SB-05	08-21-24	1015	G	N	WQ	N	N	6	✓	✓	✓		
KRA- GWC-22	08-21-24	1129	G	N	WG	N	N	6	✓	✓	✓		
KRA- GWA-8	08-21-24	1639	G	N	WG	N	N	6	✓	✓	✓		
KRA- GWB-5R	08-21-24	1812	G	N	WG	N	N	6	✓	✓	✓		
KRA- GWC-2	08-21-24	1324	G	N	WG	N	N	6	✓	✓	✓		
KRA- GWC-11	08-21-24	1311	G	N	WG	N	N	6	✓	✓	✓		
KRA- GWC-12	08-21-24	1511	G	N	WG	N	N	6	✓	✓	✓		
KRA- GWC-13	08-21-24	1640	G	N	WG	N	N	6	✓	✓	✓		
KRA- GWC-14	08-21-24	1215	G	N	WG	N	N	6	✓	✓	✓		

Chain of Custody Signatures

	Relinquished By (Signed)	Date	Time	Received by (signed)	Date	Time
1		8-22-24	1354		8/22/24	1354
2						
3						

TAT Requested: Normal: x Rush: ____ Specify: ____ (Subject to Surcharge)

Fax Results: [ ] Yes [x] No

Select Deliverable: [ ] C of A [ ] QC Summary [ ] level 1 [x] Level 2 [ ] Level 3 [ ] Level 4

Additional Remarks: * **Metals: B,Ca,Sb,As,Ba,Be,Cd,Cr,Co,Pb,Li,Mo,Se,Tl,V,Zn,Hg**

For Lab Receiving Use Only: *Custody Seal Intact?* [ ] *Yes* [ ] *No* *Cooler Temp:* 0 °C

> *For sample shipping and delivery details, see Sample Receipt & Review form (SRR.)*

Sample Collection Time Zone: [x] Eastern [ ] Pacific [ ] Central [ ] Mountain [ ] Other:

1.) Chain of Custody Number = Client Determined

2.) QC Codes: **N** = Normal Sample, **TB** = Trip Blank, **FD** = Field Duplicate, **EB** = Equipment Blank, **MS** = Matrix Spike Sample, **MSD** = Matrix Spike Duplicate Sample, **G** = Grab, **C** = Composite

3.) Field Filtered: For liquid matrices, indicate with a **- Y -** for yes the sample was field filtered or **- N -** for sample was not field filtered.

4.) Matrix Codes: **WD**=Drinking Water, **WG**=Groundwater, **WS**=Surface Water, **WW**=Waste Water, **WL**=Leachate, **SO**=Soil, **SE**=Sediment, **SL**=Sludge, **WQ**=Water Quality Control Matrix

5.) Sample Analysis Requested: Analytical method requested (i.e. **8260B**, **6010B/7470A**) and number of containers provided for each (i.e. *8260B* - **3**, *6010B/7470A* - **1**).

6.) Preservative Type: **HA** = Hydrochloric Acid, **NI** = Nitric Acid, **SH** = Sodium Hydroxide, **SA** = Sulfuric Acid, **AA** = Ascorbic Acid, **HX** = Hexane, **ST** = Sodium Thiosulfate, If no preservative is added = leave field blank

7.) **KNOWN OR POSSIBLE HAZARDS**

RCRA Metals
As = Arsenic **Hg**= Mercury
Ba = Barium **Se**= Selenium
Cd = Cadmium **Ag**= Silver
Cr = Chromium **MR**= Misc. RCRA metals
Pb = Lead

Characteristic Hazards
FL = Flammable/Ignitable
CO = Corrosive
RE = Reactive

TSCA Regulated
PCB = Polychlorinated biphenyls

Listed Waste
LW= Listed Waste
(F,K,P and U-listed wastes.)
Waste code(s):

Other
OT= Other / Unknown
(i.e.: High/low pH, asbestos, beryllium, irritants, other misc. health hazards, etc.)
Description:

Please provide any additional details below regarding handling and/or disposal concerns. (i.e.: Origin of sample(s), type of site collected from, odd matrices, etc.)

Page: 2 of 3
Project #
GEL Quote #:
COC Number (1):
PO Number: GPC82177-0004

GEL Laboratories LLC
gel.com
Chemistry | Radiochemistry | Radiobioassay | Specialty Analytics

Chain of Custody and Analytical Request

GEL Work Order Number:

GEL Project Manager: Erin Trent

GEL Laboratories, LLC
2040 Savage Road
Charleston, SC 29407
Phone: (843) 556-8171
Fax: (843) 766-1178

Client Name: GA Power — Phone # 404-506-7116
Project/Site Name: Plant Kraft - Grumman Road Landfill — Fax #
Address: 241 Ralph McGill Blvd SE, Atlanta GA 30308
Collected By: T. Gobole, D. Johnson / J. ACC Bernsford — Send Results To: SCS & ACC Contacts

Sample Analysis Requested (5) (Fill in the number of containers for each test)

Sample ID (* For composites - indicate start and stop date/time)	*Date Collected (mm-dd-yy)	*Time Collected (Military) (hhmm)	QC Code (2)	Field Filtered (3)	Sample Matrix (4)	Should this sample be considered: Radioactive (If yes, please supply isotopic info.)	Should this sample be considered: (7) Known or possible Hazards	Total number of containers	Cl, F, SO4, TDS EPA 300, SM 2540C	NI Metals * EPA 6020, 6010, 7470	NI Radium 226 & 228 SW-846 9315, 9320	<-- Preservative Type (6)	Comments
KRA- GWC-15	08-21-24	1730	G	N	WG	N	N	6	✓	✓	✓		Note: extra sample is required for sample specific QC Task_Code: KRA-CCR-ASSMT-2024S2
KRA- GWC-16	08-21-24	1600	G	N	WG	N	N	6	✓	✓	✓		
KRA- GWC-17	08-21-24	1741	G	N	WG	N	N	6	✓	✓	✓		
KRA- GWC-20	08-21-24	1255	G	N	WG	N	N	6	✓	✓	✓		
KRA- MW-23D	08-21-24	1045	G	N	WG	N	N	6	✓	✓	✓		
KRA- MW-24D	08-21-24	1801	G	N	WG	N	N	6	✓	✓	✓		
KRA- MW-25D	08-21-24	1620	G	N	WG	N	N	6	✓	✓	✓		
KRA- GRL-FD-03	08-21-24	—	G	N	WG	N	N	6	✓	✓	✓		
KRA- GRL-FB-02	08-21-24	1035	G	N	WQ	N	N	6	✓	✓	✓		
KRA- GRL-FB-03	08-21-24	1840	G	N	WQ	N	N	6	✓	✓	✓		

Chain of Custody Signatures

Relinquished By (Signed)	Date	Time	Received by (signed)	Date	Time
1	8-22-24	1354	1	8/22/24	1354
2			2		
3			3		

TAT Requested: Normal: x Rush: ____ Specify: ____ (Subject to Surcharge)

Fax Results: [ ] Yes [x] No

Select Deliverable: [ ] C of A [ ] QC Summary [ ] level 1 [x] Level 2 [ ] Level 3 [ ] Level 4

Additional Remarks: * Metals: B,Ca,Sb,As,Ba,Be,Cd,Cr,Co,Pb,Li,Mo,Se,Tl,V,Zn,Hg

For Lab Receiving Use Only: *Custody Seal Intact?* [ ] Yes [ ] No *Cooler Temp:* ○ °C

> *For sample shipping and delivery details, see Sample Receipt & Review form (SRR.)*

Sample Collection Time Zone: [x] Eastern [ ] Pacific [ ] Central [ ] Mountain [ ] Other:

1.) Chain of Custody Number = Client Determined

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Cr = Chromium **MR**= Misc. RCRA metals
Pb = Lead

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FL = Flammable/Ignitable
CO = Corrosive
RE = Reactive

TSCA Regulated
PCB = Polychlorinated biphenyls

Listed Waste
LW= Listed Waste
(F,K,P and U-listed wastes.)
Waste code(s):

Other
OT= Other / Unknown
(i.e.: High/low pH, asbestos, beryllium, irritants, other misc. health hazards, etc.)
Description:

Please provide any additional details below regarding handling and/or disposal concerns. (i.e.: Origin of sample(s), type of site collected from, odd matrices, etc.)

Page: 3 of 3
Project #
GEL Quote #:
COC Number (1):
PO Number: GPC82177-0004

GEL Laboratories LLC
gel.com
Chemistry | Radiochemistry | Radiobioassay | Specialty Analytics

Chain of Custody and Analytical Request

GEL Work Order Number:

GEL Project Manager: Erin Trent

GEL Laboratories, LLC
2040 Savage Road
Charleston, SC 29407
Phone: (843) 556-8171
Fax: (843) 766-1178

Client Name: GA Power
Phone # 404-506-7116

Project/Site Name: Plant Kraft - Grumman ~~Clifton Seep~~ Road LandFill
Fax #

Address: 241 Ralph McGill Blvd SE, Atlanta GA 30308

Collected By: T. Goble D. Johnson / J. May ACC
Send Results To: SCS & ACC Contacts

Sample Analysis Requested (5) (Fill in the number of containers for each test)

Sample ID * For composites - indicate start and stop date/time	*Date Collected (mm-dd-yy)	*Time Collected (Military) (hhmm)	QC Code (2)	Field Filtered (3)	Sample Matrix (4)	Should this sample be considered: Radioactive (If yes, please supply isotopic info.)	Should this sample be considered: (7) Known or possible Hazards	Total number of containers	Cl, F, SO4, TDS EPA 300, SM 2540C	Metals * EPA 6020, 6010, 7470 (NI)	Radium 226 & 228 SW-846 9315, 9320 (NI)	Nitrate EPA 300	Total, Carb, & Bicarb Alk - SM 2320B	NH3, TKN EPA 350.1, 351.2 (SA)	TOC SM 5310B	Dissolved Methane RSK 175			<-- Preservative Type (6)
~~KRA-CLIFTON-SEEP-GRL-EB-05~~	~~08-21-24~~	~~1015~~	~~G~~	~~N~~	~~WQ~~ WL	N	N	10	✓	✓	✓								
KRA-GRL-EB-06	08-21-24	1830	G	N	WQ	N	N	6	✓	✓	✓								
KRA-GWC-21	08-22-24	1031	G	N	WG	N	N	6	✓	✓	✓								
KRA-GRL-FD-01	08-22-24	—	G	N	WG	N	N	6	✓	✓	✓								

Comments
Note: extra sample is required for sample specific QC
Task_Code: KRA-CCR-ASSMT-2024S2

Chain of Custody Signatures

	Relinquished By (Signed)	Date	Time	Received by (signed)	Date	Time
1		8-22-24	1354		8/22/24	1354
2						
3						

TAT Requested: Normal: x Rush: ____ Specify: ____ (Subject to Surcharge)

Fax Results: [ ] Yes [x] No

Select Deliverable: [ ] C of A [ ] QC Summary [ ] level 1 [x] Level 2 [ ] Level 3 [ ] Level 4

Additional Remarks: * Metals: B,Ca,Sb,As,Ba,Be,Cd,Cr,Co,Pb,Li,Mo,Se,Tl,V,Zn,Fe,Mg,Mn,K,Na,Hg

For Lab Receiving Use Only: *Custody Seal Intact?* [ ] Yes [ ] No *Cooler Temp:* ____ °C

> *For sample shipping and delivery details, see Sample Receipt & Review form (SRR.)*

Sample Collection Time Zone: [x] Eastern [ ] Pacific [ ] Central [ ] Mountain [ ] Other:

1.) Chain of Custody Number = Client Determined

2.) QC Codes: **N** = Normal Sample, **TB** = Trip Blank, **FD** = Field Duplicate, **EB** = Equipment Blank, **MS** = Matrix Spike Sample, **MSD** = Matrix Spike Duplicate Sample, **G** = Grab, **C** = Composite

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5.) Sample Analysis Requested: Analytical method requested (i.e. **8260B, 6010B/7470A**) and number of containers provided for each (i.e. *8260B* **- 3**, *6010B/7470A* **- 1**).

6.) Preservative Type: **HA** = Hydrochloric Acid, **NI** = Nitric Acid, **SH** = Sodium Hydroxide, **SA** = Sulfuric Acid, **AA** = Ascorbic Acid, **HX** = Hexane, **ST** = Sodium Thiosulfate, If no preservative is added = leave field blank

7.) **KNOWN OR POSSIBLE HAZARDS**

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Listed Waste
LW= Listed Waste
(F,K,P and U-listed wastes.)
Waste code(s):

Other
OT= Other / Unknown
(i.e.: High/low pH, asbestos, beryllium, irritants, other misc. health hazards, etc.)
Description:

Please provide any additional details below regarding handling and/or disposal concerns. *(i.e.: Origin of sample(s), type of site collected from, odd matrices, etc.)*

WO 8/23/24 | 682330
~~682333~~ | 682336
682335

GEL Laboratories LLC

SAMPLE RECEIPT & REVIEW FORM

Client: GPCC	**SDG/AR/COC/Work Order:**
Received By: EG	**Date Received:** 8/22/24
Carrier and Tracking Number	Circle Applicable: FedEx Express FedEx Ground UPS Field Services Courier (Other)

Suspected Hazard Information	Yes	No	*If Net Counts > 100cpm on samples not marked "radioactive", contact the Radiation Safety Group for further investigation.
A)Shipped as a DOT Hazardous?		✓	Hazard Class Shipped: UN#: If UN2910, Is the Radioactive Shipment Survey Compliant? Yes___ No___
B) Did the client designate the samples are to be received as radioactive?		✓	COC notation or radioactive stickers on containers equal client designation.
C) Did the RSO classify the samples as radioactive?		✓	Maximum Net Counts Observed* (Observed Counts - Area Background Counts): 0 (0) CPM / mR/Hr **Classified as: Rad 1 Rad 2 Rad 3**
D) Did the client designate samples are hazardous?		✓	COC notation or hazard labels on containers equal client designation.
E) Did the RSO identify possible hazards?		✓	If D or E is yes, select Hazards below. PCB's Flammable Foreign Soil RCRA Asbestos Beryllium Other:

	Sample Receipt Criteria	Yes	NA	No	Comments/Qualifiers (Required for Non-Conforming Items)
1	Shipping containers received intact and sealed?	✓			Circle Applicable: Seals broken Damaged container Leaking container Other (describe)
2	Chain of custody documents included with shipment?	✓			Circle Applicable: Client contacted and provided COC COC created upon receipt
3	Samples requiring cold preservation within (0 ≤ 6 deg. C)?*	✓			Preservation Method: (Wet Ice) Ice Packs Dry ice None Other: *all temperatures are recorded in Celsius TEMP: 0
4	Daily check performed and passed on IR temperature gun?	✓			**Temperature Device Serial #:** IR2-24 Secondary Temperature Device Serial # (If Applicable):
5	Sample containers intact and sealed?	✓			Circle Applicable: Seals broken Damaged container Leaking container Other (describe)
6	Samples requiring chemical preservation at proper pH?	✓			Sample ID's and Containers Affected: If Preservation added, Lot#:
7	Do any samples require Volatile Analysis?			✓	If Yes, are Encores or Soil Kits present for solids? Yes___ No___ NA___(If yes, take to VOA Freezer) Do liquid VOA vials contain acid preservation? Yes___ No___ NA___(If unknown, select No) Are liquid VOA vials free of headspace? Yes___ No___ NA___ Sample ID's and containers affected:
8	Samples received within holding time?	✓			ID's and tests affected:
9	Sample ID's on COC match ID's on bottles?	✓			ID's and containers affected:
10	Date & time on COC match date & time on bottles?	✓			Circle Applicable: No dates on containers No times on containers COC missing info Other (describe)
11	Number of containers received match number indicated on COC?	✓			Circle Applicable: No container count on COC Other (describe)
12	Are sample containers identifiable as GEL provided by use of GEL labels?			✓	
13	COC form is properly signed in relinquished/received sections?	✓			Circle Applicable: Not relinquished Other (describe)

Comments (Use Continuation Form if needed):

PM (or PMA) review: Initials WJ Date 8/23/24 Page 1 of 1

GL-CHL-SR-001 Rev 7

List of current GEL Certifications as of 20 September 2024

State	Certification
Alabama	42200
Alaska	17-018
Alaska Drinking Water	SC00012
Arkansas	88-00651
CLIA	42D0904046
California	2940
Colorado	SC00012
Connecticut	PH-0169
DoD ELAP/ ISO17025 A2LA	2567.01
Florida NELAP	E87156
Foreign Soils Permit	P330-15-00283, P330-15-00253
Georgia	SC00012
Georgia SDWA	967
Hawaii	SC00012
Idaho	SC00012
Illinois NELAP	200029
Indiana	C-SC-01
Kansas NELAP	E-10332
Kentucky SDWA	KY90129
Kentucky Wastewater	KY90129
Louisiana Drinking Water	LA024
Louisiana NELAP	03046 (AI33904)
Maine	2023019
Maryland	270
Massachusetts	M-SC012
Massachusetts PFAS Approv	Letter
Michigan	9976
Mississippi	SC00012
Nebraska	NE-OS-26-13
Nevada	NV-C24-00175
New Hampshire NELAP	205424
New Jersey NELAP	SC002
New Mexico	SC00012
New York NELAP	11501
North Carolina	233
North Carolina SDWA	45709
North Dakota	R-158
Oklahoma	2023-152
Pennsylvania NELAP	68-00485
Puerto Rico	SC00012
S. Carolina Radiochem	10120002
Sanitation Districts of L	9255651
South Carolina Chemistry	10120001
Tennessee	TN 02934
Texas NELAP	T104704235
Utah NELAP	SC000122024-41
Vermont	VT87156
Virginia NELAP	460202
Washington	C780

APPENDIX A

Laboratory Data Validations
August 2024 Monitoring Event

LEVEL 2A LABORATORY DATA VALIDATIONS

Grumman Road

Semiannual Event

August 2024

Georgia Power Company – Grumman Road

Quality Control Review of Analytical Data – August 2024

This narrative presents results of the Quality Control (QC) data review performed on analytical results submitted by GEL Laboratories LLC, Charleston for groundwater samples collected at Grumman Road between August 19, 2024 and August 22, 2024. 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. SDGs were revised to replace revised chains of custody.

In accordance with groundwater monitoring and corrective action procedures discussed in Title 40 Code of Federal Regulations (CFR), Subpart D – Standards for the Disposal of Coal Combustion Residuals in Landfills and Surface Impoundments, the samples were analyzed for detection 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 Method 903.1 Modified), and Radium-228 (USEPA Method 904.0 Modified).

Data were reviewed in accordance with the USEPA Region 4 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 were reviewed. If 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, except for boron and zinc from KRA-GWC-9 (682330001) and radium-228 from KRA-GWA-8 (682335004) as described in the qualifications section below.

Field Precision: Field goals for precision were met, except for total dissolved solids (TDS) and radium-226 from KRA-GWC-2 (682335006) and radium-226 from KRA-GWC-21 (682335022) as described in the qualifications section below.

Accuracy: Laboratory goals for accuracy were met, except for dissolved mercury from KRA-GWA-7 (682062001), chloride and fluoride from KRA-GWC-9 (682330001), and chloride from KRA-GWC-16 (682330012) as described in the qualifications section below.

Detection Limits: Project goals for detection limits were met. Certain samples were diluted due to the concentration of target or non-target analyte interferences. Dilutions do not require qualifications based on USEPA guidelines. Reporting limits (RLs) of non-detect compounds are elevated proportional to the dilution when undiluted sample results were not provided by the laboratory. The data usability of diluted results was evaluated by the data user in the context of site-wide characterization.

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:

B: The analyte was positively identified above the method detection limit; however, the analyte was also detected in a method blank, field blank, and/or equipment blank.

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 KRA-GWA-7 (682062001) was qualified as estimated (J) for dissolved mercury as the matrix spike (MS) exceeded QC criteria (63.8%, below range of 75-125).

- Sample KRA-GWA-7 (682062001) was qualified as estimated (J) for dissolved mercury as the laboratory post spike (PS) exceeded QC criteria (61%, below range of 80-120).

- Sample KRA-GWC-9 (682330001) was qualified as estimated (J) for chloride and fluoride as the laboratory PS exceeded QC criteria (111% and 117%, respectively, above range of 90-110).

- Sample KRA-GWC-16 (682330012) was qualified as estimated (J) for chloride as the laboratory PS exceeded QC criteria (114%, above range of 90-110).

- Samples KRA-GWC-2 (682330006) and KRA-GRL-FD-03 (682330018) were qualified as estimated (J) for TDS as the field relative percent difference (RPD) exceeded QC criteria (33.3% above limit of 20).

- Sample KRA-GWC-9 (682330001) was qualified as estimated (J) for boron and zinc as the laboratory RPD exceeded QC criteria (69.3% and 31.1%, respectively, above limit of 20).

- Samples KRA-GWC-2 (682330006) and KRA-GRL-FD-03 (682330018) as well as KRA-GWC-21 (682330022) and KRA-GRL-FD-01 (682330023) were qualified as estimated (J) for radium-226 as the field RPD exceeded QC criteria (39.6% and 44.3%, respectively, above limit of 20).

- Sample KRA-GWA-8 (682335004) was qualified as estimated (J) for radium-228 as the laboratory RPD exceeded QC criteria (65%, above limit of 20).

- Certain TDS, combined radium, and/or radium-226 results on work orders 682330 and 682335 were qualified as blank detections (B) due to the analytes being detected in field and/or equipment blank samples, as shown in Table 2.

Atlantic Coast Consulting, Inc. reviewed the laboratory data from Grumman Road sampled between August 19, 2024 and August 22, 2024 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

[1]USEPA, 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

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

TABLE 1

Sample Summary Table – August 2024

Georgia Power Company – Grumman Road

						Analyses			
SDG	Field Identification	Collection Date	Lab Identification	Matrix	QC Samples	Metals (6020B, 7470A)	Anions (300.0)	TDS (SM 2540C)	Radium-226/-228 (903.1M, 904.0M)
682055	KRA-GWA-7	08/19/24	682055001	WG		X	X	X	
682059	KRA-GWA-7	08/19/24	682059001	WG					X
682062	KRA-GWA-7	08/19/24	682062001	WG		X			
682055	KRA-GWB-6R	08/20/24	682055003	WG		X	X	X	
682059	KRA-GWB-6R	08/20/24	682059003	WG					X
682055	KRA-GWB-4R	08/20/24	682055004	WG		X	X	X	
682059	KRA-GWB-4R	08/20/24	682059004	WG					X
682055	KRA-MW-26D	08/20/24	682055007	WG		X	X	X	
682059	KRA-MW-26D	08/20/24	682059007	WG					X
682055	KRA-GWC-1	08/20/24	682055009	WG		X	X	X	
682059	KRA-GWC-1	08/20/24	682059009	WG					X
682055	KRA-GRL-FD-02	08/20/24	682055013	WG	FD (KRA-GWC-1)	X	X	X	
682059	KRA-GRL-FD-02	08/20/24	682059013	WG	FD (KRA-GWC-1)				X
682055	KRA-GRL-FB-01	08/20/24	682055014	WQ	FB	X	X	X	
682059	KRA-GRL-FB-01	08/20/24	682059014	WQ	FB				X
682055	KRA-GRL-EB-04	08/20/24	682055015	WQ	EB	X	X	X	
682059	KRA-GRL-EB-04	08/20/24	682059015	WQ	EB				X
682330	KRA-GWC-9	08/21/24	682330001	WG		X	X	X	
682335	KRA-GWC-9	08/21/24	682335001	WG					X
682330	KRA-GRL-EB-05	08/21/24	682330002	WQ	EB	X	X	X	
682335	KRA-GRL-EB-05	08/21/24	682335002	WQ	EB				X
682330	KRA-GWC-22	08/21/24	682330003	WG		X	X	X	
682335	KRA-GWC-22	08/21/24	682335003	WG					X
682330	KRA-GWA-8	08/21/24	682330004	WG		X	X	X	
682335	KRA-GWA-8	08/21/24	682335004	WG					X
682330	KRA-GWB-5R	08/21/24	682330005	WG		X	X	X	
682335	KRA-GWB-5R	08/21/24	682335005	WG					X

Abbreviations:
EB – Equipment Blank
FB – Field Blank
FD – Field Duplicate
QC – Quality Control
SDG – Sample Delivery Group
TDS – Total Dissolved Solids
WG – Groundwater
WQ – Water Quality Control

TABLE 1 (continued)

Sample Summary Table – August 2024

Georgia Power Company – Grumman Road

						Analyses			
SDG	Field Identification	Collection Date	Lab Identification	Matrix	QC Samples	Metals (6020B, 7470A)	Anions (300.0)	TDS (SM 2540C)	Radium-226/-228 (903.1M, 904.0M)
682336	KRA-GWB-5R	08/21/24	682336001	WG		X			
682330	KRA-GWC-2	08/21/24	682330006	WG		X	X	X	
682335	KRA-GWC-2	08/21/24	682335006	WG					X
682330	KRA-GWC-11	08/21/24	682330007	WG		X	X	X	
682335	KRA-GWC-11	08/21/24	682335007	WG					X
682330	KRA-GWC-12	08/21/24	682330008	WG		X	X	X	
682335	KRA-GWC-12	08/21/24	682335008	WG					X
682330	KRA-GWC-13	08/21/24	682330009	WG		X	X	X	
682335	KRA-GWC-13	08/21/24	682335009	WG					X
682330	KRA-GWC-14	08/21/24	682330010	WG		X	X	X	
682335	KRA-GWC-14	08/21/24	682335010	WG					X
682330	KRA-GWC-15	08/21/24	682330011	WG		X	X	X	
682335	KRA-GWC-15	08/21/24	682335011	WG					X
682330	KRA-GWC-16	08/21/24	682330012	WG		X	X	X	
682335	KRA-GWC-16	08/21/24	682335012	WG					X
682330	KRA-GWC-17	08/21/24	682330013	WG		X	X	X	
682335	KRA-GWC-17	08/21/24	682335013	WG					X
682330	KRA-GWC-20	08/21/24	682330014	WG		X	X	X	
682335	KRA-GWC-20	08/21/24	682335014	WG					X
682330	KRA-MW-23D	08/21/24	682330015	WG		X	X	X	
682335	KRA-MW-23D	08/21/24	682335015	WG					X
682330	KRA-MW-24D	08/21/24	682330016	WG		X	X	X	
682335	KRA-MW-24D	08/21/24	682335016	WG					X
682330	KRA-MW-25D	08/21/24	682330017	WG		X	X	X	
682335	KRA-MW-25D	08/21/24	682335017	WG					X
682330	KRA-GRL-FD-03	08/21/24	682330018	WG	FD (KRA-GWC-2)	X	X	X	
682335	KRA-GRL-FD-03	08/21/24	682335018	WG	FD (KRA-GWC-2)				X

Abbreviations:
EB – Equipment Blank
FB – Field Blank
FD – Field Duplicate
QC – Quality Control
SDG – Sample Delivery Group
TDS – Total Dissolved Solids
WG – Groundwater
WQ – Water Quality Control

TABLE 1 (continued)

Sample Summary Table – August 2024

Georgia Power Company – Grumman Road

						Analyses			
SDG	Field Identification	Collection Date	Lab Identification	Matrix	QC Samples	Metals (6020B, 7470A)	Anions (300.0)	TDS (SM 2540C)	Radium-226/-228 (903.1M, 904.0M)
682330	KRA-GRL-FB-02	08/21/24	682330019	WQ	FB	X	X	X	
682335	KRA-GRL-FB-02	08/21/24	682335019	WQ	FB				X
682330	KRA-GRL-FB-03	08/21/24	682330020	WQ	FB	X	X	X	
682335	KRA-GRL-FB-03	08/21/24	682335020	WQ	FB				X
682330	KRA-GRL-EB-06	08/21/24	682330021	WQ	EB	X	X	X	
682335	KRA-GRL-EB-06	08/21/24	682335021	WQ	EB				X
682330	KRA-GWC-21	08/22/24	682330022	WG		X	X	X	
682335	KRA-GWC-21	08/22/24	682335022	WG					X
682330	KRA-GRL-FD-01	08/22/24	682330023	WG	FD (KRA-GWC-21)	X	X	X	
682335	KRA-GRL-FD-01	08/22/24	682335023	WG	FD (KRA-GWC-21)				X

Abbreviations:
EB – Equipment Blank
FB – Field Blank
FD – Field Duplicate
QC – Quality Control
SDG – Sample Delivery Group
TDS – Total Dissolved Solids
WG – Groundwater
WQ – Water Quality Control

TABLE 2

Qualifier Summary Table – August 2024

Georgia Power Company – Grumman Road

SDG	Field Identification	Constituent	New RL	New MDL or MDC	Qualifier	Reason
682330	KRA-GWC-21	TDS			B	Blank detection
682330	KRA-GRL-FB-01	TDS			B	Blank detection
682335	KRA-MW-25D	Combined Radium			B	Blank detection
682335	KRA-GWC-9	Combined Radium			B	Blank detection
682335	KRA-GWC-22	Combined Radium			B	Blank detection
682335	KRA-GWA-8	Combined Radium			B	Blank detection
682335	KRA-GWB-5R	Combined Radium			B	Blank detection
682335	KRA-GWC-2	Combined Radium			B	Blank detection
682335	KRA-GWC-11	Combined Radium			B	Blank detection
682335	KRA-GWC-12	Combined Radium			B	Blank detection
682335	KRA-GWC-15	Combined Radium			B	Blank detection
682335	KRA-GWC-16	Combined Radium			B	Blank detection
682335	KRA-GWC-17	Combined Radium			B	Blank detection
682335	KRA-GWC-20	Combined Radium			B	Blank detection
682335	KRA-MW-24D	Combined Radium			B	Blank detection
682335	KRA-GWC-16	Radium-226			B	Blank detection
682335	KRA-GWC-17	Radium-226			B	Blank detection
682335	KRA-GWC-20	Radium-226			B	Blank detection
682335	KRA-MW-23D	Radium-226			B	Blank detection
682335	KRA-MW-24D	Radium-226			B	Blank detection
682335	KRA-MW-25D	Radium-226			B	Blank detection
682335	KRA-GRL-FD-03	Radium-226			B	Blank detection
682335	KRA-GWC-21	Radium-226			B	Blank detection
682335	KRA-GRL-FD-01	Radium-226			B	Blank detection
682330	KRA-GWC-2	TDS			J	RPD exceeds field goal
682330	KRA-GRL-FD-03	TDS			J	RPD exceeds field goal
682335	KRA-GWC-2	Radium-226			J	RPD exceeds field goal
682335	KRA-GRL-FD-03	Radium-226			J	RPD exceeds field goal
682335	KRA-GWC-21	Radium-226			J	RPD exceeds field goal
682335	KRA-GRL-FD-01	Radium-226			J	RPD exceeds field goal
682330	KRA-GWC-9	Boron			J	RPD exceeds lab goal
682330	KRA-GWC-9	Zinc			J	RPD exceeds lab goal

Abbreviations:
MDC – Minimum Detectable Concentration
MS/MSD – Matrix Spike / Matrix Spike Duplicate
MDL – Method Detection Limit
PS – Post Spike
QC – Quality Control
RL – Reporting Limit
RPD – Relative Percent Difference
SDG – Sample Delivery Group
TDS – Total Dissolved Solids

Qualifiers:
B – Field or Equipment Blank Detection
J – Estimated Result
ND – Non-Detect Result

TABLE 2 (continued)

Qualifier Summary Table – August 2024

Georgia Power Company – Grumman Road

SDG	Field Identification	Constituent	New RL	New MDL or MDC	Qualifier	Reason
682335	KRA-GWA-8	Radium-228			J	RPD exceeds lab goal
682062	KRA-GWA-7	Dissolved Mercury			J	MS outside QC criteria
682062	KRA-GWA-7	Dissolved Mercury			J	PS outside QC criteria
682330	KRA-GWC-9	Chloride			J	PS outside QC criteria
682330	KRA-GWC-9	Fluoride			J	PS outside QC criteria
682330	KRA-GWC-16	Chloride			J	PS outside QC criteria

Abbreviations:
MDC – Minimum Detectable Concentration
MS/MSD – Matrix Spike / Matrix Spike Duplicate
MDL – Method Detection Limit
PS – Post Spike
QC – Quality Control
RL – Reporting Limit
RPD – Relative Percent Difference
SDG – Sample Delivery Group
TDS – Total Dissolved Solids

Qualifiers:
B – Field or Equipment Blank Detection
J – Estimated Result
ND – Non-Detect Result

APPENDIX A

Field Sampling Reports
August 2024 Monitoring Event

Low-Flow Test Report:

Test Date / Time: 8/19/2024 3:55:03 PM
Project: Grumman Road Landfill
Operator Name: Taylor Goble

Location Name: GWA-7 **Well Diameter: 2 in** **Casing Type: PVC** **Screen Length: 5 ft** **Top of Screen: 15.91 ft** **Total Depth: 20.91 ft** **Initial Depth to Water: 5.54 ft**	**Pump Type: Peristaltic Pump** **Tubing Type: Poly** **Tubing Inner Diameter: 0.17 in** **Pump Intake From TOC: 18 ft** **Estimated Total Volume Pumped: 9 liter** **Flow Cell Volume: 90 ml** **Final Flow Rate: 225 ml/min** **Final Draw Down: 0.35 ft**	**Instrument Used: Aqua TROLL 400** **Serial Number: 965658**

Test Notes:
Sampled at 1635. Cloudy 90 degrees. Field filtered dissolved metals collected.

Low-Flow Readings:

Date Time	Elapsed Time	pH	Temperature	Specific Conductivity	RDO Concentration	Turbidity	ORP	Depth to Water	Flow
		+/- 0.1	+/- 3	+/- 5 %	+/- 10 %	+/- 10	+/- 25	+/- 0.3	
8/19/2024 3:55 PM	00:00	6.85 pH	32.25 °C	1,603.0 µS/cm	1.42 mg/L	6.71 NTU	123.8 mV	5.82 ft	225.00 ml/min
8/19/2024 4:00 PM	05:00	6.20 pH	27.63 °C	1,645.5 µS/cm	0.09 mg/L	7.92 NTU	112.1 mV	5.86 ft	225.00 ml/min
8/19/2024 4:05 PM	10:00	6.17 pH	27.91 °C	1,687.9 µS/cm	0.05 mg/L	7.18 NTU	108.1 mV	5.89 ft	225.00 ml/min
8/19/2024 4:10 PM	15:00	6.17 pH	28.11 °C	1,733.2 µS/cm	0.05 mg/L	7.39 NTU	105.7 mV	5.89 ft	225.00 ml/min
8/19/2024 4:15 PM	20:00	6.19 pH	27.95 °C	1,764.8 µS/cm	0.04 mg/L	18.70 NTU	103.7 mV	5.89 ft	225.00 ml/min
8/19/2024 4:20 PM	25:00	6.19 pH	27.28 °C	1,755.5 µS/cm	0.04 mg/L	19.70 NTU	102.4 mV	5.89 ft	225.00 ml/min
8/19/2024 4:25 PM	30:00	6.18 pH	26.66 °C	1,792.0 µS/cm	0.04 mg/L	22.40 NTU	101.2 mV	5.89 ft	225.00 ml/min
8/19/2024 4:30 PM	35:00	6.20 pH	26.51 °C	1,785.7 µS/cm	0.04 mg/L	23.00 NTU	99.3 mV	5.89 ft	225.00 ml/min
8/19/2024 4:35 PM	40:00	6.19 pH	27.38 °C	1,790.8 µS/cm	0.04 mg/L	25.50 NTU	97.3 mV	5.89 ft	225.00 ml/min

Samples

Sample ID:	Description:

Low-Flow Test Report:

Test Date / Time: 8/21/2024 4:14:15 PM
Project: Grumman Road Landfill
Operator Name: Taylor Goble

Location Name: GWA-8 **Well Diameter: 2 in** **Casing Type: PVC** **Screen Length: 5 ft** **Top of Screen: 15.19 ft** **Total Depth: 20.19 ft** **Initial Depth to Water: 6.34 ft**	**Pump Type: Peristaltic Pump** **Tubing Type: Poly** **Tubing Inner Diameter: 0.17 in** **Pump Intake From TOC: 18 ft** **Estimated Total Volume Pumped: 5 liter** **Flow Cell Volume: 90 ml** **Final Flow Rate: 200 ml/min** **Final Draw Down: 1.95 ft**	**Instrument Used: Aqua TROLL 400** **Serial Number: 965658**

Test Notes:
Sampled at 1639. Cloudy 84 degrees.

Low-Flow Readings:

Date Time	Elapsed Time	pH	Temperature	Specific Conductivity	RDO Concentration	Turbidity	ORP	Depth to Water	Flow
		+/- 0.1	+/- 3	+/- 5 %	+/- 10 %	+/- 10	+/- 25	+/- 0.3	
8/21/2024 4:14 PM	00:00	4.88 pH	28.16 °C	191.50 µS/cm	1.10 mg/L	3.85 NTU	142.6 mV	7.35 ft	200.00 ml/min
8/21/2024 4:19 PM	05:00	4.77 pH	26.13 °C	216.33 µS/cm	0.24 mg/L	2.51 NTU	144.3 mV	8.00 ft	200.00 ml/min
8/21/2024 4:24 PM	10:00	4.65 pH	26.15 °C	241.75 µS/cm	0.19 mg/L	2.15 NTU	145.0 mV	8.09 ft	200.00 ml/min
8/21/2024 4:29 PM	15:00	4.64 pH	25.64 °C	248.06 µS/cm	0.16 mg/L	2.05 NTU	145.8 mV	8.16 ft	200.00 ml/min
8/21/2024 4:34 PM	20:00	4.60 pH	25.41 °C	252.89 µS/cm	0.14 mg/L	1.51 NTU	146.4 mV	8.24 ft	200.00 ml/min
8/21/2024 4:39 PM	25:00	4.59 pH	25.28 °C	255.28 µS/cm	0.12 mg/L	1.38 NTU	146.9 mV	8.29 ft	200.00 ml/min

Samples

Sample ID:	Description:

Created using VuSitu from In-Situ, Inc.

Low-Flow Test Report:

Test Date / Time: 8/20/2024 10:47:09 AM
Project: Grumman Road Landfill
Operator Name: Taylor Goble

Location Name: GWB-4R **Well Diameter: 2 in** **Casing Type: PVC** **Screen Length: 10 ft** **Top of Screen: 16.87 ft** **Total Depth: 26.87 ft** **Initial Depth to Water: 14.03 ft**	**Pump Type: Peristaltic Pump** **Tubing Type: Poly** **Tubing Inner Diameter: 0.17 in** **Pump Intake From TOC: 22 ft** **Estimated Total Volume Pumped: 7000 ml** **Flow Cell Volume: 90 ml** **Final Flow Rate: 175 ml/min** **Final Draw Down: 0.2 ft**	**Instrument Used: Aqua TROLL 400** **Serial Number: 965658**

Test Notes:
Sampled at 1127. Clear 85 degrees. GRL-FB-01 poured here.

Low-Flow Readings:

Date Time	Elapsed Time	pH	Temperature	Specific Conductivity	RDO Concentration	Turbidity	ORP	Depth to Water	Flow
		+/- 0.1	+/- 3	+/- 5 %	+/- 10 %	+/- 10	+/- 25	+/- 0.3	
8/20/2024 10:47 AM	00:00	6.25 pH	27.93 °C	2,827.7 µS/cm	4.48 mg/L	32.30 NTU	139.6 mV	14.15 ft	175.00 ml/min
8/20/2024 10:52 AM	05:00	6.47 pH	24.14 °C	2,923.8 µS/cm	0.18 mg/L	24.30 NTU	134.1 mV	14.23 ft	175.00 ml/min
8/20/2024 10:57 AM	10:00	6.47 pH	23.99 °C	2,836.1 µS/cm	0.13 mg/L	21.00 NTU	127.1 mV	14.23 ft	175.00 ml/min
8/20/2024 11:02 AM	15:00	6.43 pH	24.03 °C	2,775.9 µS/cm	0.12 mg/L	13.70 NTU	120.0 mV	14.23 ft	175.00 ml/min
8/20/2024 11:07 AM	20:00	6.37 pH	24.01 °C	2,701.7 µS/cm	0.12 mg/L	10.90 NTU	110.3 mV	14.23 ft	175.00 ml/min
8/20/2024 11:12 AM	25:00	6.33 pH	24.10 °C	2,609.4 µS/cm	0.11 mg/L	8.44 NTU	102.8 mV	14.23 ft	175.00 ml/min
8/20/2024 11:17 AM	30:00	6.31 pH	24.06 °C	2,548.8 µS/cm	0.12 mg/L	5.78 NTU	97.2 mV	14.23 ft	175.00 ml/min
8/20/2024 11:22 AM	35:00	6.29 pH	24.05 °C	2,502.5 µS/cm	0.12 mg/L	5.24 NTU	92.7 mV	14.23 ft	175.00 ml/min
8/20/2024 11:27 AM	40:00	6.28 pH	24.20 °C	2,483.6 µS/cm	0.12 mg/L	4.54 NTU	89.5 mV	14.23 ft	175.00 ml/min

Samples

Sample ID:	Description:

Low-Flow Test Report:

Test Date / Time: 8/21/2024 5:26:59 PM
Project: Grumman Road Landfill
Operator Name: Taylor Goble

Location Name: GWB-5R **Well Diameter: 2 in** **Casing Type: PVC** **Screen Length: 10 ft** **Top of Screen: 16.49 ft** **Total Depth: 26.49 ft** **Initial Depth to Water: 9.59 ft**	**Pump Type: Peristaltic Pump** **Tubing Type: Poly** **Tubing Inner Diameter: 0.17 in** **Pump Intake From TOC: 21.5 ft** **Estimated Total Volume Pumped: 13.5 liter** **Flow Cell Volume: 90 ml** **Final Flow Rate: 300 ml/min** **Final Draw Down: 0 ft**	**Instrument Used: Aqua TROLL 400** **Serial Number: 965658**

Test Notes:
Sampled at 1812. Cloudy 82 degrees. Pre-purged well from 0900-1727, evacuating approximately 80 liters of water before log began. GRL-FB-03 taken here. Field filtered dissolved metals collected.

Low-Flow Readings:

Date Time	Elapsed Time	pH	Temperature	Specific Conductivity	RDO Concentration	Turbidity	ORP	Depth to Water	Flow
		+/- 0.1	+/- 3	+/- 5 %	+/- 10 %	+/- 10	+/- 25	+/- 0.3	
8/21/2024 5:26 PM	00:00	5.88 pH	25.04 °C	1,609.9 µS/cm	0.23 mg/L	26.80 NTU	184.3 mV	9.59 ft	300.00 ml/min
8/21/2024 5:31 PM	05:00	5.94 pH	24.50 °C	1,590.6 µS/cm	0.13 mg/L	26.40 NTU	167.7 mV	9.59 ft	300.00 ml/min
8/21/2024 5:36 PM	10:00	5.97 pH	24.44 °C	1,588.3 µS/cm	0.10 mg/L	23.90 NTU	158.4 mV	9.59 ft	300.00 ml/min
8/21/2024 5:41 PM	15:00	6.00 pH	24.43 °C	1,594.2 µS/cm	0.09 mg/L	25.20 NTU	152.1 mV	9.59 ft	300.00 ml/min
8/21/2024 5:46 PM	20:00	6.00 pH	24.35 °C	1,576.3 µS/cm	0.09 mg/L	21.60 NTU	147.0 mV	9.59 ft	300.00 ml/min
8/21/2024 5:51 PM	25:00	6.00 pH	24.33 °C	1,597.6 µS/cm	0.08 mg/L	22.40 NTU	143.3 mV	9.59 ft	300.00 ml/min
8/21/2024 5:56 PM	30:00	6.00 pH	24.33 °C	1,582.3 µS/cm	0.08 mg/L	21.90 NTU	140.0 mV	9.59 ft	300.00 ml/min
8/21/2024 6:01 PM	35:00	6.00 pH	24.28 °C	1,580.4 µS/cm	0.07 mg/L	20.50 NTU	137.6 mV	9.59 ft	300.00 ml/min
8/21/2024 6:06 PM	40:00	6.00 pH	24.28 °C	1,582.8 µS/cm	0.07 mg/L	20.60 NTU	135.0 mV	9.59 ft	300.00 ml/min
8/21/2024 6:11 PM	45:00	6.00 pH	24.26 °C	1,574.5 µS/cm	0.07 mg/L	21.30 NTU	132.8 mV	9.59 ft	300.00 ml/min

Samples

Sample ID:	Description:

Low-Flow Test Report:

Test Date / Time: 8/20/2024 9:08:02 AM
Project: Grumman Road Landfill
Operator Name: Taylor Goble

Location Name: GWB-6R **Well Diameter: 2 in** **Casing Type: PVC** **Screen Length: 10 ft** **Top of Screen: 12.86 ft** **Total Depth: 22.86 ft** **Initial Depth to Water: 6.69 ft**	**Pump Type: Peristaltic Pump** **Tubing Type: Poly** **Tubing Inner Diameter: 0.17 in** **Pump Intake From TOC: 18 ft** **Estimated Total Volume Pumped: 5 liter** **Flow Cell Volume: 90 ml** **Final Flow Rate: 200 ml/min** **Final Draw Down: 0.16 ft**	**Instrument Used: Aqua TROLL 400** **Serial Number: 965658**

Test Notes:
Sampled at 0933. Clear 79 degrees.

Low-Flow Readings:

Date Time	Elapsed Time	pH	Temperature	Specific Conductivity	RDO Concentration	Turbidity	ORP	Depth to Water	Flow
		+/- 0.1	+/- 3	+/- 5 %	+/- 10 %	+/- 10	+/- 25	+/- 0.3	
8/20/2024 9:08 AM	00:00	6.58 pH	26.46 °C	1,730.4 µS/cm	3.50 mg/L	7.26 NTU	168.9 mV	6.79 ft	200.00 ml/min
8/20/2024 9:13 AM	05:00	5.84 pH	25.83 °C	1,696.8 µS/cm	0.34 mg/L	6.62 NTU	143.9 mV	6.83 ft	200.00 ml/min
8/20/2024 9:18 AM	10:00	5.72 pH	25.37 °C	1,670.5 µS/cm	0.17 mg/L	5.60 NTU	141.5 mV	6.85 ft	200.00 ml/min
8/20/2024 9:23 AM	15:00	5.66 pH	25.24 °C	1,654.2 µS/cm	0.14 mg/L	5.75 NTU	139.9 mV	6.85 ft	200.00 ml/min
8/20/2024 9:28 AM	20:00	5.64 pH	25.32 °C	1,630.0 µS/cm	0.13 mg/L	4.07 NTU	138.6 mV	6.85 ft	200.00 ml/min
8/20/2024 9:33 AM	25:00	5.62 pH	25.28 °C	1,631.8 µS/cm	0.13 mg/L	4.27 NTU	137.6 mV	6.85 ft	200.00 ml/min

Samples

Sample ID:	Description:

Created using VuSitu from In-Situ, Inc.

Low-Flow Test Report:

Test Date / Time: 8/20/2024 2:16:30 PM
Project: Grumman Road Landfill
Operator Name: Taylor Goble

Location Name: GWC-1 **Well Diameter: 2 in** **Casing Type: PVC** **Screen Length: 5 ft** **Top of Screen: 22.33 ft** **Total Depth: 27.33 ft** **Initial Depth to Water: 18.04 ft**	**Pump Type: Peristaltic Pump** **Tubing Type: Poly** **Tubing Inner Diameter: 0.17 in** **Pump Intake From TOC: 25 ft** **Estimated Total Volume Pumped: 7.5 liter** **Flow Cell Volume: 90 ml** **Final Flow Rate: 300 ml/min** **Final Draw Down: 0.1 ft**	**Instrument Used: Aqua TROLL 400** **Serial Number: 965658**

Test Notes:
Sampled at 1441. Cloudy 91 degrees. GRL-FD-02 taken here.

Low-Flow Readings:

Date Time	Elapsed Time	pH	Temperature	Specific Conductivity	RDO Concentration	Turbidity	ORP	Depth to Water	Flow
		+/- 0.1	+/- 3	+/- 5 %	+/- 10 %	+/- 10	+/- 25	+/- 0.3	
8/20/2024 2:16 PM	00:00	6.10 pH	36.92 °C	359.04 µS/cm	3.96 mg/L	0.78 NTU	91.4 mV	18.09 ft	300.00 ml/min
8/20/2024 2:21 PM	05:00	5.98 pH	25.78 °C	294.28 µS/cm	0.20 mg/L	1.86 NTU	98.7 mV	18.12 ft	300.00 ml/min
8/20/2024 2:26 PM	10:00	5.90 pH	24.70 °C	272.31 µS/cm	0.14 mg/L	2.17 NTU	99.4 mV	18.14 ft	300.00 ml/min
8/20/2024 2:31 PM	15:00	5.83 pH	23.88 °C	265.93 µS/cm	0.14 mg/L	0.94 NTU	101.1 mV	18.14 ft	300.00 ml/min
8/20/2024 2:36 PM	20:00	5.82 pH	24.03 °C	269.50 µS/cm	0.12 mg/L	1.12 NTU	101.4 mV	18.14 ft	300.00 ml/min
8/20/2024 2:41 PM	25:00	5.83 pH	23.76 °C	272.20 µS/cm	0.12 mg/L	1.35 NTU	101.1 mV	18.14 ft	300.00 ml/min

Samples

Sample ID:	Description:

Created using VuSitu from In-Situ, Inc.

Low-Flow Test Report:

Test Date / Time: 8/21/2024 12:54:05 PM
Project: Grumman Road Landfill
Operator Name: D. Johnson

Location Name: GWC-2 **Well Diameter: 2 in** **Casing Type: PVC** **Screen Length: 5 ft** **Top of Screen: 27.73 ft** **Total Depth: 32.73 ft** **Initial Depth to Water: 17.02 ft**	**Pump Type: Peristaltic Pump** **Tubing Type: Poly** **Tubing Inner Diameter: 0.17 in** **Pump Intake From TOC: 30.2 ft** **Estimated Total Volume Pumped: 7.5 liter** **Flow Cell Volume: 90 ml** **Final Flow Rate: 250 ml/min** **Final Draw Down: 1.8 in**	**Instrument Used: Aqua TROLL 400** **Serial Number: 884189**

Test Notes:
Sample time 1324. Sunny, 85 degrees F.
FD-03 here.

Low-Flow Readings:

Date Time	Elapsed Time	pH	Temperature	Specific Conductivity	RDO Concentration	Turbidity	ORP	Depth to Water	Flow
		+/- 0.1	+/- 3	+/- 5 %	+/- 10 %	+/- 10	+/- 25	+/- 0.3	
8/21/2024 12:54 PM	00:00	5.69 pH	28.78 °C	50.98 µS/cm	2.79 mg/L	2.22 NTU	135.5 mV	17.02 ft	250.00 ml/min
8/21/2024 12:59 PM	05:00	4.95 pH	24.67 °C	51.33 µS/cm	0.17 mg/L	1.04 NTU	51.2 mV	17.15 ft	250.00 ml/min
8/21/2024 1:04 PM	10:00	4.75 pH	23.98 °C	51.28 µS/cm	0.11 mg/L	0.90 NTU	17.9 mV	17.17 ft	250.00 ml/min
8/21/2024 1:09 PM	15:00	4.76 pH	23.91 °C	50.76 µS/cm	0.09 mg/L	0.82 NTU	-1.3 mV	17.17 ft	250.00 ml/min
8/21/2024 1:14 PM	20:00	4.76 pH	23.90 °C	51.22 µS/cm	0.07 mg/L	0.78 NTU	-26.7 mV	17.17 ft	250.00 ml/min
8/21/2024 1:19 PM	25:00	4.76 pH	23.72 °C	51.19 µS/cm	0.06 mg/L	0.87 NTU	-32.4 mV	17.17 ft	250.00 ml/min
8/21/2024 1:24 PM	30:00	4.76 pH	23.78 °C	50.79 µS/cm	0.06 mg/L	0.72 NTU	-34.7 mV	17.17 ft	250.00 ml/min

Samples

Sample ID:	Description:

Low-Flow Test Report:

Test Date / Time: 8/20/2024 3:45:13 PM
Project: Grumman Road Landfill
Operator Name: Taylor Goble

Location Name: GWC-9 **Well Diameter: 2 in** **Casing Type: PVC** **Screen Length: 5 ft** **Top of Screen: 22.94 ft** **Total Depth: 27.94 ft** **Initial Depth to Water: 6.98 ft**	**Pump Type: Peristaltic Pump** **Tubing Type: Poly** **Tubing Inner Diameter: 0.17 in** **Pump Intake From TOC: 24 ft** **Estimated Total Volume Pumped: 13.75 liter** **Flow Cell Volume: 90 ml** **Final Flow Rate: 250 ml/min** **Final Draw Down: 18.09 ft**	**Instrument Used: Aqua TROLL 400** **Serial Number: 965658**

Test Notes:
No sample taken, well purged dry. Cloudy 90 degrees.

Low-Flow Readings:

Date Time	Elapsed Time	pH	Temperature	Specific Conductivity	RDO Concentration	Turbidity	ORP	Depth to Water	Flow
		+/- 0.1	+/- 3	+/- 5 %	+/- 10 %	+/- 10	+/- 25	+/- 0.3	
8/20/2024 3:45 PM	00:00	5.61 pH	29.64 °C	140.08 µS/cm	0.92 mg/L	2.68 NTU	98.2 mV	7.59 ft	100.00 ml/min
8/20/2024 3:50 PM	05:00	4.75 pH	26.88 °C	150.36 µS/cm	0.38 mg/L	4.41 NTU	98.8 mV	8.52 ft	100.00 ml/min
8/20/2024 3:55 PM	10:00	4.64 pH	26.33 °C	149.05 µS/cm	0.28 mg/L	4.25 NTU	100.4 mV	9.37 ft	100.00 ml/min
8/20/2024 4:00 PM	15:00	4.65 pH	26.06 °C	149.25 µS/cm	0.23 mg/L	4.31 NTU	100.5 mV	10.27 ft	100.00 ml/min
8/20/2024 4:05 PM	20:00	4.67 pH	27.02 °C	150.78 µS/cm	0.23 mg/L	5.40 NTU	99.6 mV	10.92 ft	50.00 ml/min
8/20/2024 4:10 PM	25:00	4.67 pH	27.09 °C	150.25 µS/cm	0.22 mg/L	4.04 NTU	100.7 mV	11.55 ft	50.00 ml/min
8/20/2024 4:15 PM	30:00	4.69 pH	25.23 °C	145.60 µS/cm	0.18 mg/L	0.88 NTU	102.9 mV	13.05 ft	250.00 ml/min
8/20/2024 4:20 PM	35:00	4.70 pH	24.42 °C	148.19 µS/cm	0.15 mg/L	1.13 NTU	102.8 mV	14.35 ft	250.00 ml/min
8/20/2024 4:25 PM	40:00	4.74 pH	24.43 °C	147.95 µS/cm	0.14 mg/L	1.07 NTU	102.4 mV	15.57 ft	250.00 ml/min
8/20/2024 4:30 PM	45:00	4.76 pH	23.97 °C	146.78 µS/cm	0.14 mg/L	1.41 NTU	103.4 mV	17.04 ft	250.00 ml/min
8/20/2024 4:35 PM	50:00	4.76 pH	23.72 °C	147.54 µS/cm	0.14 mg/L	1.11 NTU	104.1 mV	18.27 ft	250.00 ml/min
8/20/2024 4:40 PM	55:00	4.77 pH	23.70 °C	148.61 µS/cm	0.14 mg/L	1.17 NTU	104.3 mV	19.71 ft	250.00 ml/min
8/20/2024 4:45 PM	01:00:00	4.77 pH	24.19 °C	146.76 µS/cm	0.19 mg/L	1.22 NTU	104.4 mV	21.35 ft	250.00 ml/min
8/20/2024 4:50 PM	01:05:00	4.76 pH	24.35 °C	142.24 µS/cm	0.30 mg/L	2.64 NTU	104.5 mV	22.46 ft	250.00 ml/min
8/20/2024 4:55 PM	01:10:00	4.73 pH	24.46 °C	141.46 µS/cm	0.44 mg/L	2.33 NTU	105.3 mV	23.65 ft	250.00 ml/min

8/20/2024 5:00 PM	01:15:00	4.74 pH	24.84 °C	141.46 µS/cm	0.77 mg/L	1.74 NTU	105.5 mV	25.07 ft	250.00 ml/min

Samples

Sample ID:	Description:

Created using VuSitu from In-Situ, Inc.

Low-Flow Test Report:

Test Date / Time: 8/21/2024 9:15:25 AM
Project: Grumman Road Landfill
Operator Name: Taylor Goble

Location Name: GWC-9 **Well Diameter: 2 in** **Casing Type: PVC** **Screen Length: 5 ft** **Top of Screen: 22.94 ft** **Total Depth: 27.94 ft** **Initial Depth to Water: 7.44 ft**	**Pump Type: Peristaltic Pump** **Tubing Type: Poly** **Tubing Inner Diameter: 0.17 in** **Pump Intake From TOC: 25 ft** **Estimated Total Volume Pumped: 1500 ml** **Flow Cell Volume: 90 ml** **Final Flow Rate: 100 ml/min** **Final Draw Down: 3.09 ft**	**Instrument Used: Aqua TROLL 400** **Serial Number: 965658**

Test Notes:
Sampled at 0930. Purged dry the previous day. Cloudy 75 degrees.

Low-Flow Readings:

Date Time	Elapsed Time	pH	Temperature	Specific Conductivity	RDO Concentration	Turbidity	ORP	Depth to Water	Flow
		+/- 0.1	+/- 3	+/- 5 %	+/- 10 %	+/- 10	+/- 25	+/- 0.3	
8/21/2024 9:15 AM	00:00	7.03 pH	24.56 °C	202.85 µS/cm	4.60 mg/L	6.53 NTU	155.5 mV	7.62 ft	100.00 ml/min
8/21/2024 9:20 AM	05:00	4.72 pH	24.10 °C	143.65 µS/cm	0.30 mg/L	3.87 NTU	110.7 mV	8.91 ft	100.00 ml/min
8/21/2024 9:25 AM	10:00	4.65 pH	24.10 °C	144.05 µS/cm	0.24 mg/L	2.12 NTU	106.4 mV	9.75 ft	100.00 ml/min
8/21/2024 9:30 AM	15:00	4.64 pH	24.02 °C	142.65 µS/cm	0.18 mg/L	1.87 NTU	104.6 mV	10.53 ft	100.00 ml/min

Samples

Sample ID:	Description:

Created using VuSitu from In-Situ, Inc.

Low-Flow Test Report:

Test Date / Time: 8/21/2024 12:41:40 PM
Project: Grumman Road Landfill
Operator Name: Taylor Goble

Location Name: GWC-11 **Well Diameter: 2 in** **Casing Type: PVC** **Screen Length: 5 ft** **Top of Screen: 17.86 ft** **Total Depth: 22.86 ft** **Initial Depth to Water: 10.23 ft**	**Pump Type: Peristaltic Pump** **Tubing Type: Poly** **Tubing Inner Diameter: 0.17 in** **Pump Intake From TOC: 19 ft** **Estimated Total Volume Pumped: 4.5 liter** **Flow Cell Volume: 90 ml** **Final Flow Rate: 150 ml/min** **Final Draw Down: 2.35 ft**	**Instrument Used: Aqua TROLL 400** **Serial Number: 965658**

Test Notes:
Sampled at 1311, cloudy 84 degrees.

Low-Flow Readings:

Date Time	Elapsed Time	pH	Temperature	Specific Conductivity	RDO Concentration	Turbidity	ORP	Depth to Water	Flow
		+/- 0.1	+/- 3	+/- 5 %	+/- 10 %	+/- 10	+/- 25	+/- 0.3	
8/21/2024 12:41 PM	00:00	5.27 pH	30.74 °C	650.80 µS/cm	4.31 mg/L	3.39 NTU	139.1 mV	10.75 ft	150.00 ml/min
8/21/2024 12:46 PM	05:00	5.03 pH	26.37 °C	672.82 µS/cm	0.40 mg/L	2.23 NTU	138.9 mV	11.66 ft	150.00 ml/min
8/21/2024 12:51 PM	10:00	5.03 pH	26.33 °C	684.52 µS/cm	0.32 mg/L	1.53 NTU	139.3 mV	12.03 ft	150.00 ml/min
8/21/2024 12:56 PM	15:00	5.02 pH	26.47 °C	698.55 µS/cm	0.30 mg/L	1.38 NTU	141.3 mV	12.34 ft	150.00 ml/min
8/21/2024 1:01 PM	20:00	5.01 pH	27.68 °C	735.99 µS/cm	0.32 mg/L	1.31 NTU	143.0 mV	12.47 ft	150.00 ml/min
8/21/2024 1:06 PM	25:00	5.02 pH	28.26 °C	746.58 µS/cm	0.30 mg/L	1.47 NTU	145.1 mV	12.53 ft	150.00 ml/min
8/21/2024 1:11 PM	30:00	5.02 pH	27.89 °C	765.21 µS/cm	0.30 mg/L	1.55 NTU	147.1 mV	12.58 ft	150.00 ml/min

Samples

Sample ID:	Description:

Low-Flow Test Report:

Test Date / Time: 8/21/2024 2:44:33 PM
Project: Grumman Road Landfill
Operator Name: Taylor Goble

Location Name: GWC-12 **Well Diameter: 2 in** **Casing Type: PVC** **Screen Length: 5 ft** **Top of Screen: 22.1 ft** **Total Depth: 27.1 ft** **Initial Depth to Water: 9.96 ft**	**Pump Type: Peristaltic Pump** **Tubing Type: Poly** **Tubing Inner Diameter: 0.17 in** **Pump Intake From TOC: 24 ft** **Estimated Total Volume Pumped: 5.3 liter** **Flow Cell Volume: 90 ml** **Final Flow Rate: 200 ml/min** **Final Draw Down: 0.49 ft**	**Instrument Used: Aqua TROLL 400** **Serial Number: 965658**

Test Notes:
Sampled at 1511. Cloudy 85 degrees.

Low-Flow Readings:

Date Time	Elapsed Time	pH	Temperature	Specific Conductivity	RDO Concentration	Turbidity	ORP	Depth to Water	Flow
		+/- 0.1	+/- 3	+/- 5 %	+/- 10 %	+/- 10	+/- 25	+/- 0.3	
8/21/2024 2:44 PM	00:00	4.24 pH	29.72 °C	998.03 µS/cm	1.99 mg/L	1.85 NTU	162.7 mV	10.31 ft	200.00 ml/min
8/21/2024 2:49 PM	05:00	4.10 pH	26.23 °C	1,046.1 µS/cm	0.22 mg/L	1.67 NTU	165.9 mV	10.38 ft	200.00 ml/min
8/21/2024 2:54 PM	10:00	4.10 pH	26.10 °C	1,039.6 µS/cm	0.17 mg/L	1.15 NTU	166.4 mV	10.42 ft	200.00 ml/min
8/21/2024 3:01 PM	16:29	4.10 pH	25.32 °C	1,024.9 µS/cm	0.14 mg/L	1.40 NTU	168.6 mV	10.45 ft	200.00 ml/min
8/21/2024 3:06 PM	21:29	4.08 pH	25.73 °C	1,021.0 µS/cm	0.12 mg/L	1.33 NTU	168.9 mV	10.45 ft	200.00 ml/min
8/21/2024 3:11 PM	26:29	4.09 pH	25.23 °C	1,015.3 µS/cm	0.12 mg/L	1.22 NTU	169.8 mV	10.45 ft	200.00 ml/min

Samples

Sample ID:	Description:

Created using VuSitu from In-Situ, Inc.

Low-Flow Test Report:

Test Date / Time: 8/21/2024 4:10:05 PM
Project: Grumman Road
Operator Name: J. May

Location Name: GWC-13 **Well Diameter: 2 in** **Casing Type: PVC** **Screen Length: 5 ft** **Top of Screen: 19.31 ft** **Total Depth: 24.31 ft** **Initial Depth to Water: 11.67 ft**	**Pump Type: Peristaltic Pump** **Tubing Type: Poly** **Pump Intake From TOC: 19.31 ft** **Estimated Total Volume Pumped: 7.5 liter** **Flow Cell Volume: 130 ml** **Final Flow Rate: 250 ml/min** **Final Draw Down: 8.76 in**	**Instrument Used: Aqua TROLL 500** **Serial Number: 863127**

Test Notes:
Sample Time: 1640
Partly Cloudy, 80s

Low-Flow Readings:

Date Time	Elapsed Time	pH	Temperature	Specific Conductivity	RDO Concentration	Turbidity	ORP	Depth to Water	Flow
		+/- 0.1	+/- 0.5	+/- 3 %	+/- 0.3	+/- 10	+/- 10	+/- 0.3	
8/21/2024 4:10 PM	00:00	5.50 pH	25.60 °C	37.36 µS/cm	2.32 mg/L	5.41 NTU	153.8 mV	11.67 ft	250.00 ml/min
8/21/2024 4:15 PM	05:00	4.76 pH	24.62 °C	119.78 µS/cm	0.68 mg/L	2.27 NTU	211.3 mV	12.30 ft	250.00 ml/min
8/21/2024 4:20 PM	10:00	4.73 pH	24.47 °C	125.86 µS/cm	0.40 mg/L	0.98 NTU	235.4 mV	12.40 ft	250.00 ml/min
8/21/2024 4:25 PM	15:00	4.73 pH	24.07 °C	125.61 µS/cm	0.20 mg/L	0.83 NTU	187.3 mV	12.40 ft	250.00 ml/min
8/21/2024 4:30 PM	20:00	4.72 pH	23.90 °C	124.61 µS/cm	0.15 mg/L	0.89 NTU	169.8 mV	12.40 ft	250.00 ml/min
8/21/2024 4:35 PM	25:00	4.72 pH	23.79 °C	122.76 µS/cm	0.13 mg/L	0.60 NTU	157.8 mV	12.40 ft	250.00 ml/min
8/21/2024 4:40 PM	30:00	4.73 pH	23.79 °C	121.31 µS/cm	0.13 mg/L	0.42 NTU	148.9 mV	12.40 ft	250.00 ml/min

Samples

Sample ID:	Description:

Created using VuSitu from In-Situ, Inc.

Low-Flow Test Report:

Test Date / Time: 8/21/2024 11:50:29 AM
Project: Grumman Road Landfill
Operator Name: D. Johnson

Location Name: GWC-14 **Well Diameter: 2 in** **Casing Type: PVC** **Screen Length: 5 ft** **Top of Screen: 22 ft** **Total Depth: 27 ft** **Initial Depth to Water: 17.95 ft**	**Pump Type: Peristaltic Pump** **Tubing Type: Poly** **Tubing Inner Diameter: 0.17 in** **Pump Intake From TOC: 24.5 ft** **Estimated Total Volume Pumped: 5.62 liter** **Flow Cell Volume: 90 ml** **Final Flow Rate: 225 ml/min** **Final Draw Down: 5.52 in**	**Instrument Used: Aqua TROLL 400** **Serial Number: 884189**

Test Notes:
Sample time 1215. Sunny, 79 degrees F.

Low-Flow Readings:

Date Time	Elapsed Time	pH	Temperature	Specific Conductivity	RDO Concentration	Turbidity	ORP	Depth to Water	Flow
		+/- 0.1	+/- 3	+/- 5 %	+/- 10 %	+/- 10	+/- 25	+/- 0.3	
8/21/2024 11:50 AM	00:00	6.41 pH	29.30 °C	352.78 µS/cm	1.76 mg/L	1.45 NTU	98.1 mV	17.95 ft	225.00 ml/min
8/21/2024 11:55 AM	05:00	5.80 pH	25.50 °C	373.48 µS/cm	0.99 mg/L	1.02 NTU	118.8 mV	17.97 ft	225.00 ml/min
8/21/2024 12:00 PM	10:00	5.78 pH	25.20 °C	371.46 µS/cm	0.95 mg/L	0.85 NTU	95.3 mV	17.98 ft	225.00 ml/min
8/21/2024 12:05 PM	15:00	5.77 pH	25.15 °C	370.70 µS/cm	0.93 mg/L	0.77 NTU	94.3 mV	17.98 ft	225.00 ml/min
8/21/2024 12:10 PM	20:00	5.75 pH	24.92 °C	370.79 µS/cm	0.94 mg/L	0.63 NTU	89.9 mV	17.98 ft	225.00 ml/min
8/21/2024 12:15 PM	25:00	5.75 pH	25.48 °C	367.87 µS/cm	0.94 mg/L	0.58 NTU	95.8 mV	17.98 ft	225.00 ml/min

Samples

Sample ID:	Description:

Created using VuSitu from In-Situ, Inc.

Low-Flow Test Report:

Test Date / Time: 8/21/2024 5:00:07 PM
Project: Grumman Road Landfill
Operator Name: J. Berisford

Location Name: GWC-15 **Well Diameter: 2 in** **Casing Type: PVC** **Screen Length: 5 ft** **Top of Screen: 22.03 ft** **Total Depth: 27.03 ft** **Initial Depth to Water: 18.04 ft**	**Pump Type: Peristaltic Pump** **Tubing Type: Poly** **Tubing Inner Diameter: 0.17 in** **Pump Intake From TOC: 25 ft** **Estimated Total Volume Pumped: 5.2 liter** **Flow Cell Volume: 130 ml** **Final Flow Rate: 175 ml/min** **Final Draw Down: 3 in**	**Instrument Used: Aqua TROLL 500** **Serial Number: 689325**

Test Notes:
Cloudy, sample time-1730

Low-Flow Readings:

Date Time	Elapsed Time	pH	Temperature	Specific Conductivity	RDO Concentration	Turbidity	ORP	Depth to Water	Flow
		+/- 0.1	+/- 3	+/- 5 %	+/- 10 %	+/- 10	+/- 25	+/- 0.3	
8/21/2024 5:00 PM	00:00	6.67 pH	26.73 °C	482.98 µS/cm	1.00 mg/L	2.54 NTU	105.5 mV	18.04 ft	175.00 ml/min
8/21/2024 5:05 PM	05:00	6.58 pH	25.75 °C	469.55 µS/cm	0.23 mg/L	2.41 NTU	88.1 mV	18.20 ft	175.00 ml/min
8/21/2024 5:10 PM	10:00	6.62 pH	25.28 °C	485.69 µS/cm	0.15 mg/L	1.89 NTU	74.0 mV	18.20 ft	175.00 ml/min
8/21/2024 5:15 PM	15:00	6.64 pH	25.18 °C	489.13 µS/cm	0.13 mg/L	1.28 NTU	64.4 mV	18.30 ft	175.00 ml/min
8/21/2024 5:20 PM	20:00	6.67 pH	25.15 °C	492.89 µS/cm	0.12 mg/L	1.24 NTU	57.4 mV	18.30 ft	175.00 ml/min
8/21/2024 5:25 PM	25:00	6.69 pH	25.11 °C	493.60 µS/cm	0.10 mg/L	1.16 NTU	52.7 mV	18.30 ft	175.00 ml/min
8/21/2024 5:30 PM	30:00	6.69 pH	25.29 °C	494.16 µS/cm	0.10 mg/L	1.10 NTU	50.2 mV	18.30 ft	175.00 ml/min

Samples

Sample ID:	Description:

Created using VuSitu from In-Situ, Inc.

Low-Flow Test Report:

Test Date / Time: 8/21/2024 3:30:37 PM
Project: Grumman Road Landfill
Operator Name: J. Berisford

Location Name: GWC-16 **Well Diameter: 2 in** **Casing Type: PVC** **Screen Length: 5 ft** **Top of Screen: 23.95 ft** **Total Depth: 28.95 ft** **Initial Depth to Water: 19.46 ft**	**Pump Type: Peristaltic Pump** **Tubing Type: Poly** **Tubing Inner Diameter: 0.17 in** **Pump Intake From TOC: 26 ft** **Estimated Total Volume Pumped: 6.6 liter** **Flow Cell Volume: 130 ml** **Final Flow Rate: 220 ml/min** **Final Draw Down: 7.7 in**	**Instrument Used: Aqua TROLL 500** **Serial Number: 689325**

Test Notes:
Partly cloudy, sample time-1600

Low-Flow Readings:

Date Time	Elapsed Time	pH	Temperature	Specific Conductivity	RDO Concentration	Turbidity	ORP	Depth to Water	Flow
		+/- 0.1	+/- 3	+/- 5 %	+/- 10 %	+/- 10	+/- 25	+/- 0.3	
8/21/2024 3:30 PM	00:00	5.41 pH	25.52 °C	1,807.9 µS/cm	0.56 mg/L	2.48 NTU	173.5 mV	19.46 ft	220.00 ml/min
8/21/2024 3:35 PM	05:00	5.45 pH	24.64 °C	1,462.6 µS/cm	0.87 mg/L	2.50 NTU	168.8 mV	20.10 ft	220.00 ml/min
8/21/2024 3:40 PM	10:00	5.43 pH	24.47 °C	1,436.1 µS/cm	1.17 mg/L	2.83 NTU	159.8 mV	20.10 ft	220.00 ml/min
8/21/2024 3:45 PM	15:00	5.46 pH	24.26 °C	1,484.8 µS/cm	1.18 mg/L	2.37 NTU	153.3 mV	20.10 ft	220.00 ml/min
8/21/2024 3:50 PM	20:00	5.48 pH	24.28 °C	1,524.7 µS/cm	1.15 mg/L	2.22 NTU	146.9 mV	20.10 ft	220.00 ml/min
8/21/2024 3:55 PM	25:00	5.51 pH	24.43 °C	1,549.4 µS/cm	1.08 mg/L	2.05 NTU	141.9 mV	20.10 ft	220.00 ml/min
8/21/2024 4:00 PM	30:00	5.53 pH	24.24 °C	1,569.3 µS/cm	1.03 mg/L	1.81 NTU	137.0 mV	20.10 ft	220.00 ml/min

Samples

Sample ID:	Description:

Created using VuSitu from In-Situ, Inc.

Low-Flow Test Report:

Test Date / Time: 8/21/2024 5:16:37 PM
Project: Grumman Road Landfill
Operator Name: D. Johnson

Location Name: GWC-17 **Well Diameter: 2 in** **Casing Type: PVC** **Screen Length: 5 ft** **Top of Screen: 18.5 ft** **Total Depth: 23.5 ft** **Initial Depth to Water: 5.57 ft**	**Pump Type: Peristaltic Pump** **Tubing Type: Poly** **Tubing Inner Diameter: 0.17 in** **Pump Intake From TOC: 21 ft** **Estimated Total Volume Pumped: 6.18 liter** **Flow Cell Volume: 90 ml** **Final Flow Rate: 175 ml/min** **Final Draw Down: 8.28 in**	**Instrument Used: Aqua TROLL 400** **Serial Number: 884189**

Test Notes:
Sample time 1741. Cloudy, 83 degrees F.
Initial WL at 4.90. Allowed to pre develop for turbidity.

Low-Flow Readings:

Date Time	Elapsed Time	pH	Temperature	Specific Conductivity	RDO Concentration	Turbidity	ORP	Depth to Water	Flow
		+/- 0.1	+/- 3	+/- 5 %	+/- 10 %	+/- 10	+/- 25	+/- 0.3	
8/21/2024 5:16 PM	00:00	5.24 pH	26.38 °C	2,138.3 µS/cm	0.17 mg/L	4.29 NTU	-35.8 mV	5.57 ft	175.00 ml/min
8/21/2024 5:21 PM	05:00	4.63 pH	25.80 °C	2,218.2 µS/cm	0.05 mg/L	2.54 NTU	-32.8 mV	5.58 ft	175.00 ml/min
8/21/2024 5:26 PM	10:00	4.72 pH	25.66 °C	2,111.0 µS/cm	0.02 mg/L	3.16 NTU	-65.8 mV	5.58 ft	175.00 ml/min
8/21/2024 5:31 PM	15:00	4.79 pH	25.76 °C	2,075.9 µS/cm	0.01 mg/L	4.82 NTU	-39.6 mV	5.59 ft	175.00 ml/min
8/21/2024 5:36 PM	20:00	4.78 pH	25.77 °C	2,097.7 µS/cm	0.01 mg/L	4.33 NTU	-40.6 mV	5.59 ft	175.00 ml/min
8/21/2024 5:41 PM	25:20	4.49 pH	25.91 °C	2,471.4 µS/cm	0.02 mg/L	5.66 NTU	-23.0 mV	5.59 ft	175.00 ml/min
8/21/2024 5:46 PM	30:20	4.47 pH	25.96 °C	2,446.2 µS/cm	0.02 mg/L	4.73 NTU	-31.2 mV	5.59 ft	175.00 ml/min
8/21/2024 5:51 PM	35:20	4.47 pH	25.98 °C	2,449.6 µS/cm	0.02 mg/L	2.80 NTU	-30.8 mV	5.59 ft	175.00 ml/min

Samples

Sample ID:	Description:

Low-Flow Test Report:

Test Date / Time: 8/21/2024 11:55:32 AM
Project: Grumman Road Landfill
Operator Name: J. Berisford

Location Name: GWC-20 **Well Diameter: 2 in** **Casing Type: PVC** **Screen Length: 5 ft** **Top of Screen: 20.51 ft** **Total Depth: 25.51 ft** **Initial Depth to Water: 20.05 ft**	**Pump Type: Peristaltic Pump** **Tubing Type: Poly** **Tubing Inner Diameter: 0.17 in** **Pump Intake From TOC: 23 ft** **Estimated Total Volume Pumped: 12 liter** **Flow Cell Volume: 130 ml** **Final Flow Rate: 200 ml/min** **Final Draw Down: 9 in**	**Instrument Used: Aqua TROLL 500** **Serial Number: 689325**

Test Notes:
Sunny, sample time-1255

Low-Flow Readings:

Date Time	Elapsed Time	pH	Temperature	Specific Conductivity	RDO Concentration	Turbidity	ORP	Depth to Water	Flow
		+/- 0.1	+/- 3	+/- 5 %	+/- 10 %	+/- 10	+/- 25	+/- 0.3	
8/21/2024 11:55 AM	00:00	5.97 pH	27.21 °C	1,046.7 µS/cm	4.63 mg/L	1.02 NTU	133.6 mV	20.05 ft	200.00 ml/min
8/21/2024 12:00 PM	05:00	5.96 pH	24.40 °C	1,053.7 µS/cm	0.19 mg/L	1.07 NTU	127.9 mV	20.30 ft	200.00 ml/min
8/21/2024 12:05 PM	10:00	5.97 pH	24.39 °C	1,036.6 µS/cm	0.12 mg/L	1.23 NTU	123.0 mV	20.50 ft	200.00 ml/min
8/21/2024 12:10 PM	15:00	5.98 pH	24.37 °C	1,035.1 µS/cm	0.10 mg/L	3.08 NTU	119.3 mV	20.60 ft	200.00 ml/min
8/21/2024 12:15 PM	20:00	5.99 pH	24.68 °C	1,032.0 µS/cm	0.08 mg/L	3.05 NTU	117.7 mV	20.70 ft	200.00 ml/min
8/21/2024 12:20 PM	25:00	6.02 pH	24.88 °C	1,028.2 µS/cm	0.08 mg/L	2.59 NTU	116.9 mV	20.70 ft	200.00 ml/min
8/21/2024 12:25 PM	30:00	6.03 pH	24.34 °C	1,023.1 µS/cm	0.09 mg/L	2.75 NTU	115.3 mV	20.80 ft	200.00 ml/min
8/21/2024 12:30 PM	35:00	6.02 pH	24.68 °C	1,025.4 µS/cm	0.08 mg/L	2.03 NTU	115.1 mV	20.80 ft	200.00 ml/min
8/21/2024 12:35 PM	40:00	6.03 pH	24.49 °C	1,026.3 µS/cm	0.09 mg/L	1.92 NTU	114.0 mV	20.80 ft	200.00 ml/min
8/21/2024 12:40 PM	45:00	6.04 pH	24.58 °C	1,026.6 µS/cm	0.10 mg/L	1.92 NTU	112.9 mV	20.80 ft	200.00 ml/min
8/21/2024 12:45 PM	50:00	6.03 pH	24.46 °C	1,026.8 µS/cm	0.09 mg/L	1.83 NTU	114.0 mV	20.80 ft	200.00 ml/min
8/21/2024 12:50 PM	55:00	6.04 pH	24.79 °C	1,025.6 µS/cm	0.08 mg/L	1.74 NTU	115.1 mV	20.80 ft	200.00 ml/min
8/21/2024 12:55 PM	01:00:00	6.03 pH	25.14 °C	1,026.4 µS/cm	0.07 mg/L	1.80 NTU	116.7 mV	20.80 ft	200.00 ml/min

Low-Flow Test Report:

Test Date / Time: 8/22/2024 8:21:20 AM
Project: Grumman Road
Operator Name: J. May

Location Name: GWC-21 **Well Diameter: 2 in** **Casing Type: PVC** **Screen Length: 5 ft** **Top of Screen: 19.38 ft** **Total Depth: 24.38 ft** **Initial Depth to Water: 19.43 ft**	**Pump Type: Peristaltic Pump** **Tubing Type: Poly** **Pump Intake From TOC: 21.88 ft** **Estimated Total Volume Pumped: 39 liter** **Flow Cell Volume: 130 ml** **Final Flow Rate: 300 ml/min** **Final Draw Down: 3.24 in**	**Instrument Used: Aqua TROLL 500** **Serial Number: 863127**

Test Notes:
Sample Time: 1031. GRL-FD-01 taken here. Cloudy, 80 degrees F.

Low-Flow Readings:

Date Time	Elapsed Time	pH	Temperature	Specific Conductivity	RDO Concentration	Turbidity	ORP	Depth to Water	Flow
		+/- 0.1	+/- 0.5	+/- 3 %	+/- 0.3	+/- 10	+/- 10	+/- 0.3	
8/22/2024 8:21 AM	00:00	5.09 pH	24.47 °C	269.92 µS/cm	6.00 mg/L	1.16 NTU	208.4 mV	19.43 ft	300.00 ml/min
8/22/2024 8:26 AM	05:00	5.10 pH	23.78 °C	52.36 µS/cm	6.13 mg/L	1.60 NTU	197.7 mV	19.70 ft	300.00 ml/min
8/22/2024 8:31 AM	10:00	5.11 pH	23.66 °C	52.84 µS/cm	6.04 mg/L	0.84 NTU	199.3 mV	19.70 ft	300.00 ml/min
8/22/2024 8:36 AM	15:00	5.11 pH	23.70 °C	58.54 µS/cm	5.91 mg/L	0.44 NTU	204.0 mV	19.70 ft	300.00 ml/min
8/22/2024 8:41 AM	20:00	5.11 pH	23.74 °C	73.18 µS/cm	5.71 mg/L	0.41 NTU	210.0 mV	19.70 ft	300.00 ml/min
8/22/2024 8:46 AM	25:00	5.10 pH	23.80 °C	98.40 µS/cm	5.42 mg/L	0.30 NTU	217.1 mV	19.70 ft	300.00 ml/min
8/22/2024 8:51 AM	30:00	5.14 pH	23.78 °C	128.67 µS/cm	5.16 mg/L	0.54 NTU	222.0 mV	19.70 ft	300.00 ml/min
8/22/2024 8:56 AM	35:00	5.20 pH	23.73 °C	164.88 µS/cm	4.90 mg/L	0.38 NTU	224.8 mV	19.70 ft	300.00 ml/min
8/22/2024 9:01 AM	40:00	5.25 pH	23.73 °C	205.79 µS/cm	4.68 mg/L	0.28 NTU	227.1 mV	19.70 ft	300.00 ml/min
8/22/2024 9:06 AM	45:00	5.29 pH	23.73 °C	240.56 µS/cm	4.47 mg/L	0.25 NTU	228.3 mV	19.70 ft	300.00 ml/min
8/22/2024 9:11 AM	50:00	5.32 pH	23.70 °C	273.93 µS/cm	4.27 mg/L	0.32 NTU	229.4 mV	19.70 ft	300.00 ml/min
8/22/2024 9:16 AM	55:00	5.35 pH	23.77 °C	326.23 µS/cm	4.04 mg/L	0.31 NTU	230.1 mV	19.70 ft	300.00 ml/min
8/22/2024 9:21 AM	01:00:00	5.38 pH	23.87 °C	388.25 µS/cm	3.81 mg/L	0.32 NTU	230.2 mV	19.70 ft	300.00 ml/min
8/22/2024 9:26 AM	01:05:00	5.42 pH	23.84 °C	443.71 µS/cm	3.65 mg/L	0.36 NTU	230.1 mV	19.70 ft	300.00 ml/min
8/22/2024 9:31 AM	01:10:00	5.46 pH	23.95 °C	491.08 µS/cm	3.51 mg/L	0.34 NTU	228.8 mV	19.70 ft	300.00 ml/min

8/22/2024 9:36 AM	01:15:00	5.48 pH	24.00 °C	525.82 µS/cm	3.43 mg/L	0.36 NTU	226.6 mV	19.70 ft	300.00 ml/min
8/22/2024 9:41 AM	01:20:00	5.50 pH	24.07 °C	555.01 µS/cm	3.33 mg/L	0.38 NTU	222.3 mV	19.70 ft	300.00 ml/min
8/22/2024 9:46 AM	01:25:00	5.52 pH	24.12 °C	587.03 µS/cm	3.27 mg/L	0.35 NTU	222.4 mV	19.70 ft	300.00 ml/min
8/22/2024 9:51 AM	01:30:00	5.52 pH	24.24 °C	607.58 µS/cm	3.19 mg/L	0.31 NTU	223.6 mV	19.70 ft	300.00 ml/min
8/22/2024 9:56 AM	01:35:00	5.53 pH	24.30 °C	625.94 µS/cm	3.13 mg/L	0.37 NTU	223.5 mV	19.70 ft	300.00 ml/min
8/22/2024 10:01 AM	01:39:46	5.53 pH	24.61 °C	643.44 µS/cm	3.08 mg/L	0.40 NTU	222.7 mV	19.70 ft	300.00 ml/min
8/22/2024 10:06 AM	01:44:46	5.54 pH	24.46 °C	656.04 µS/cm	3.02 mg/L	0.54 NTU	222.4 mV	19.70 ft	300.00 ml/min
8/22/2024 10:11 AM	01:49:46	5.54 pH	24.24 °C	669.99 µS/cm	2.99 mg/L	0.38 NTU	222.4 mV	19.70 ft	300.00 ml/min
8/22/2024 10:16 AM	01:54:46	5.54 pH	24.10 °C	681.03 µS/cm	2.93 mg/L	0.32 NTU	222.2 mV	19.70 ft	300.00 ml/min
8/22/2024 10:21 AM	01:59:46	5.54 pH	24.02 °C	701.67 µS/cm	2.90 mg/L	0.33 NTU	222.1 mV	19.70 ft	300.00 ml/min
8/22/2024 10:26 AM	02:04:46	5.54 pH	24.54 °C	708.76 µS/cm	2.87 mg/L	0.26 NTU	221.4 mV	19.70 ft	300.00 ml/min
8/22/2024 10:31 AM	02:09:46	5.54 pH	24.39 °C	720.14 µS/cm	2.80 mg/L	0.29 NTU	221.5 mV	19.70 ft	300.00 ml/min

Samples

Sample ID:	Description:

Low-Flow Test Report:

Test Date / Time: 8/21/2024 11:04:26 AM
Project: Grumman Road Landfill
Operator Name: Taylor Goble

Location Name: GWC-22 **Well Diameter: 2 in** **Casing Type: PVC** **Screen Length: 5 ft** **Top of Screen: 14.24 ft** **Total Depth: 19.24 ft** **Initial Depth to Water: 7.16 ft**	**Pump Type: Peristaltic Pump** **Tubing Type: Poly** **Tubing Inner Diameter: 0.17 in** **Pump Intake From TOC: 16.5 ft** **Estimated Total Volume Pumped: 5 liter** **Flow Cell Volume: 90 ml** **Final Flow Rate: 200 ml/min** **Final Draw Down: 0.3 ft**	**Instrument Used: Aqua TROLL 400** **Serial Number: 965658**

Test Notes:
Sampled at 1129. Cloudy 81 degrees.

Low-Flow Readings:

Date Time	Elapsed Time	pH	Temperature	Specific Conductivity	RDO Concentration	Turbidity	ORP	Depth to Water	Flow
		+/- 0.1	+/- 3	+/- 5 %	+/- 10 %	+/- 10	+/- 25	+/- 0.3	
8/21/2024 11:04 AM	00:00	5.45 pH	29.70 °C	86.27 µS/cm	4.35 mg/L	4.08 NTU	111.3 mV	7.35 ft	200.00 ml/min
8/21/2024 11:09 AM	05:00	4.81 pH	26.53 °C	105.44 µS/cm	0.25 mg/L	5.43 NTU	113.3 mV	7.43 ft	200.00 ml/min
8/21/2024 11:14 AM	10:00	4.80 pH	26.60 °C	117.31 µS/cm	0.19 mg/L	5.77 NTU	112.6 mV	7.46 ft	200.00 ml/min
8/21/2024 11:19 AM	15:00	4.81 pH	26.51 °C	121.16 µS/cm	0.16 mg/L	5.02 NTU	112.2 mV	7.46 ft	200.00 ml/min
8/21/2024 11:24 AM	20:00	4.81 pH	26.05 °C	123.30 µS/cm	0.15 mg/L	2.99 NTU	113.0 mV	7.46 ft	200.00 ml/min
8/21/2024 11:29 AM	25:00	4.81 pH	26.05 °C	124.12 µS/cm	0.14 mg/L	2.72 NTU	113.2 mV	7.46 ft	200.00 ml/min

Samples

Sample ID:	Description:

Created using VuSitu from In-Situ, Inc.

Low-Flow Test Report:

Test Date / Time: 8/21/2024 10:05:12 AM
Project: Grumman Road Landfill
Operator Name: J. Berisford

Location Name: MW-23D **Well Diameter: 2 in** **Casing Type: PVC** **Screen Length: 5 ft** **Top of Screen: 57.95 ft** **Total Depth: 62.95 ft** **Initial Depth to Water: 21.69 ft**	**Pump Type: Peristaltic Pump** **Tubing Type: Poly** **Tubing Inner Diameter: 0.17 in** **Pump Intake From TOC: 60 ft** **Estimated Total Volume Pumped: 8 liter** **Flow Cell Volume: 130 ml** **Final Flow Rate: 200 ml/min** **Final Draw Down: 14.5 in**	**Instrument Used: Aqua TROLL 500** **Serial Number: 689325**

Test Notes:
Sunny, sample time-1045

Low-Flow Readings:

Date Time	Elapsed Time	pH	Temperature	Specific Conductivity	RDO Concentration	Turbidity	ORP	Depth to Water	Flow
		+/- 0.1	+/- 3	+/- 5 %	+/- 10 %	+/- 10	+/- 25	+/- 0.3	
8/21/2024 10:05 AM	00:00	6.16 pH	23.58 °C	118.87 µS/cm	0.74 mg/L	1.56 NTU	120.0 mV	21.69 ft	200.00 ml/min
8/21/2024 10:10 AM	05:00	6.17 pH	23.42 °C	118.75 µS/cm	0.33 mg/L	1.33 NTU	46.3 mV	22.30 ft	200.00 ml/min
8/21/2024 10:15 AM	10:00	6.20 pH	23.37 °C	118.82 µS/cm	0.23 mg/L	1.02 NTU	27.9 mV	22.70 ft	200.00 ml/min
8/21/2024 10:20 AM	15:00	6.22 pH	23.43 °C	119.22 µS/cm	0.19 mg/L	1.06 NTU	9.0 mV	22.90 ft	200.00 ml/min
8/21/2024 10:25 AM	20:00	6.22 pH	23.41 °C	119.19 µS/cm	0.17 mg/L	1.32 NTU	-1.0 mV	22.90 ft	200.00 ml/min
8/21/2024 10:30 AM	25:00	6.23 pH	23.30 °C	119.18 µS/cm	0.16 mg/L	1.12 NTU	-5.7 mV	22.90 ft	200.00 ml/min
8/21/2024 10:35 AM	30:00	6.23 pH	23.35 °C	119.34 µS/cm	0.15 mg/L	1.04 NTU	-13.8 mV	22.90 ft	200.00 ml/min
8/21/2024 10:40 AM	35:00	6.23 pH	23.45 °C	119.87 µS/cm	0.13 mg/L	0.95 NTU	-14.7 mV	22.90 ft	200.00 ml/min
8/21/2024 10:45 AM	40:00	6.20 pH	23.46 °C	121.51 µS/cm	0.12 mg/L	0.88 NTU	-15.4 mV	22.90 ft	200.00 ml/min

Samples

Sample ID:	Description:

Low-Flow Test Report:

Test Date / Time: 8/21/2024 5:35:55 PM
Project: Grumman Road
Operator Name: J. May

Location Name: MW-24D **Well Diameter: 2 in** **Casing Type: PVC** **Screen Length: 5 ft** **Top of Screen: 60.19 ft** **Total Depth: 65.19 ft** **Initial Depth to Water: 21.78 ft**	**Pump Type: Peristaltic Pump** **Tubing Type: Poly** **Pump Intake From TOC: 62.69 ft** **Estimated Total Volume Pumped: 5.25 liter** **Flow Cell Volume: 130 ml** **Final Flow Rate: 210 ml/min** **Final Draw Down: 30.24 in**	**Instrument Used: Aqua TROLL 500** **Serial Number: 863127**

Test Notes:
Sample Time: 1801
Cloudy, 80s

Low-Flow Readings:

Date Time	Elapsed Time	pH	Temperature	Specific Conductivity	RDO Concentration	Turbidity	ORP	Depth to Water	Flow
		+/- 0.1	+/- 0.5	+/- 3 %	+/- 0.3	+/- 10	+/- 10	+/- 0.3	
8/21/2024 5:35 PM	00:00	5.99 pH	24.25 °C	47.30 µS/cm	0.96 mg/L	0.79 NTU	47.3 mV	21.78 ft	210.00 ml/min
8/21/2024 5:40 PM	05:00	6.04 pH	23.80 °C	47.09 µS/cm	0.50 mg/L	0.87 NTU	35.5 mV	23.50 ft	210.00 ml/min
8/21/2024 5:45 PM	10:00	6.06 pH	23.73 °C	46.89 µS/cm	0.40 mg/L	0.51 NTU	31.4 mV	23.90 ft	210.00 ml/min
8/21/2024 5:50 PM	15:00	6.09 pH	23.58 °C	46.81 µS/cm	0.34 mg/L	0.53 NTU	25.9 mV	24.10 ft	210.00 ml/min
8/21/2024 5:55 PM	20:00	6.10 pH	23.57 °C	46.82 µS/cm	0.30 mg/L	0.56 NTU	22.7 mV	24.30 ft	210.00 ml/min
8/21/2024 6:00 PM	25:00	6.12 pH	23.48 °C	46.75 µS/cm	0.22 mg/L	0.75 NTU	19.9 mV	24.30 ft	210.00 ml/min

Samples

Sample ID:	Description:

Created using VuSitu from In-Situ, Inc.

Low-Flow Test Report:

Test Date / Time: 8/21/2024 3:10:03 PM
Project: Grumman Road Landfill
Operator Name: D. Johnson

Location Name: MW-25D **Well Diameter: 2 in** **Casing Type: PVC** **Screen Length: 5 ft** **Top of Screen: 65.2 ft** **Total Depth: 70.2 ft** **Initial Depth to Water: 19.61 ft**	**Pump Type: Peristaltic Pump** **Tubing Type: Poly** **Tubing Inner Diameter: 0.17 in** **Pump Intake From TOC: 67.7 ft** **Estimated Total Volume Pumped: 8.75 liter** **Flow Cell Volume: 90 ml** **Final Flow Rate: 125 ml/min** **Final Draw Down: 37.56 in**	**Instrument Used: Aqua TROLL 400** **Serial Number: 884189**

Test Notes:
Sample time 1620. Sunny, 84 degrees F. GRL-FB-02 poured here.

Low-Flow Readings:

Date Time	Elapsed Time	pH	Temperature	Specific Conductivity	RDO Concentration	Turbidity	ORP	Depth to Water	Flow
		+/- 0.1	+/- 3	+/- 5 %	+/- 10 %	+/- 10	+/- 25	+/- 0.3	
8/21/2024 3:10 PM	00:00	6.87 pH	31.32 °C	49.69 µS/cm	4.56 mg/L	2.21 NTU	69.2 mV	19.61 ft	125.00 ml/min
8/21/2024 3:15 PM	05:00	6.67 pH	25.92 °C	52.08 µS/cm	3.46 mg/L	1.80 NTU	90.7 mV	21.22 ft	125.00 ml/min
8/21/2024 3:20 PM	10:00	6.33 pH	26.52 °C	52.57 µS/cm	3.25 mg/L	1.37 NTU	68.6 mV	21.55 ft	125.00 ml/min
8/21/2024 3:25 PM	15:00	6.57 pH	27.30 °C	51.91 µS/cm	3.03 mg/L	1.21 NTU	65.8 mV	21.92 ft	125.00 ml/min
8/21/2024 3:30 PM	20:00	6.23 pH	25.79 °C	52.41 µS/cm	2.77 mg/L	1.27 NTU	75.1 mV	22.09 ft	125.00 ml/min
8/21/2024 3:35 PM	25:00	6.17 pH	25.32 °C	52.35 µS/cm	2.37 mg/L	1.21 NTU	72.3 mV	22.31 ft	125.00 ml/min
8/21/2024 3:40 PM	30:00	6.14 pH	25.13 °C	52.57 µS/cm	2.18 mg/L	1.11 NTU	69.9 mV	22.52 ft	125.00 ml/min
8/21/2024 3:45 PM	35:00	6.11 pH	24.98 °C	52.75 µS/cm	1.91 mg/L	1.19 NTU	56.9 mV	22.68 ft	125.00 ml/min
8/21/2024 3:50 PM	40:00	6.07 pH	25.14 °C	52.81 µS/cm	1.42 mg/L	1.15 NTU	61.9 mV	22.71 ft	125.00 ml/min
8/21/2024 3:55 PM	45:00	6.07 pH	25.97 °C	52.48 µS/cm	1.11 mg/L	1.31 NTU	57.5 mV	22.73 ft	125.00 ml/min
8/21/2024 4:00 PM	50:00	6.05 pH	25.38 °C	52.42 µS/cm	0.96 mg/L	1.29 NTU	46.9 mV	22.74 ft	125.00 ml/min
8/21/2024 4:05 PM	55:00	6.03 pH	26.03 °C	52.47 µS/cm	0.79 mg/L	1.30 NTU	44.8 mV	22.74 ft	125.00 ml/min
8/21/2024 4:10 PM	01:00:00	6.00 pH	26.99 °C	52.33 µS/cm	0.65 mg/L	1.28 NTU	44.7 mV	22.74 ft	125.00 ml/min
8/21/2024 4:15 PM	01:05:00	6.01 pH	26.56 °C	52.21 µS/cm	0.60 mg/L	1.29 NTU	41.4 mV	22.74 ft	125.00 ml/min
8/21/2024 4:20 PM	01:10:00	6.02 pH	26.52 °C	52.24 µS/cm	0.57 mg/L	1.22 NTU	42.9 mV	22.74 ft	125.00 ml/min

Low-Flow Test Report:

Test Date / Time: 8/20/2024 12:22:07 PM
Project: Grumman Road Landfill
Operator Name: Taylor Goble

Location Name: MW-26D **Well Diameter: 2 in** **Casing Type: PVC** **Screen Length: 5 ft** **Top of Screen: 63.95 ft** **Total Depth: 68.95 ft** **Initial Depth to Water: 18.11 ft**	**Pump Type: Peristaltic Pump** **Tubing Type: Poly** **Tubing Inner Diameter: 0.17 in** **Pump Intake From TOC: 64 ft** **Estimated Total Volume Pumped: 9.6 liter** **Flow Cell Volume: 90 ml** **Final Flow Rate: 175 ml/min** **Final Draw Down: 1.39 ft**	**Instrument Used: Aqua TROLL 400** **Serial Number: 965658**

Test Notes:
Sampled at 1317. Cloudy 90 degrees.

Low-Flow Readings:

Date Time	Elapsed Time	pH	Temperature	Specific Conductivity	RDO Concentration	Turbidity	ORP	Depth to Water	Flow
		+/- 0.1	+/- 3	+/- 5 %	+/- 10 %	+/- 10	+/- 25	+/- 0.3	
8/20/2024 12:22 PM	00:00	7.95 pH	27.15 °C	46.43 µS/cm	4.03 mg/L	3.49 NTU	35.8 mV	18.87 ft	175.00 ml/min
8/20/2024 12:27 PM	05:00	7.41 pH	25.56 °C	44.93 µS/cm	3.84 mg/L	2.40 NTU	52.5 mV	19.20 ft	175.00 ml/min
8/20/2024 12:32 PM	10:00	7.09 pH	24.96 °C	45.29 µS/cm	3.91 mg/L	1.86 NTU	63.0 mV	19.35 ft	175.00 ml/min
8/20/2024 12:37 PM	15:00	6.81 pH	25.23 °C	44.30 µS/cm	3.01 mg/L	1.39 NTU	67.8 mV	19.42 ft	175.00 ml/min
8/20/2024 12:42 PM	20:00	6.50 pH	25.41 °C	44.14 µS/cm	2.01 mg/L	1.55 NTU	69.6 mV	19.47 ft	175.00 ml/min
8/20/2024 12:47 PM	25:00	6.27 pH	25.07 °C	44.16 µS/cm	1.44 mg/L	1.91 NTU	69.8 mV	19.50 ft	175.00 ml/min
8/20/2024 12:52 PM	30:00	6.08 pH	26.10 °C	44.85 µS/cm	1.21 mg/L	1.93 NTU	67.8 mV	19.50 ft	175.00 ml/min
8/20/2024 12:57 PM	35:00	5.95 pH	25.96 °C	44.24 µS/cm	0.98 mg/L	2.53 NTU	68.8 mV	19.50 ft	175.00 ml/min
8/20/2024 1:02 PM	40:00	5.86 pH	26.30 °C	44.41 µS/cm	0.88 mg/L	3.01 NTU	68.6 mV	19.50 ft	175.00 ml/min
8/20/2024 1:07 PM	45:00	5.79 pH	26.25 °C	44.28 µS/cm	0.90 mg/L	2.27 NTU	69.1 mV	19.50 ft	175.00 ml/min
8/20/2024 1:12 PM	50:00	5.74 pH	26.99 °C	43.89 µS/cm	0.81 mg/L	1.84 NTU	68.8 mV	19.50 ft	175.00 ml/min
8/20/2024 1:17 PM	55:00	5.72 pH	26.78 °C	43.56 µS/cm	0.81 mg/L	1.71 NTU	69.0 mV	19.50 ft	175.00 ml/min

Samples

Sample ID:	Description:

APPENDIX A

Daily Instrument Calibration Logs
August 2024 Monitoring Event

Field Instrumentation Calibration Form

Atlantic Coast Consulting, Inc.

Site Name: Grumman Road Date: 8-19-24

Calibrated By: T. Goble Field Conditions: Sunny 88°

Instrument	Manufactuer/ Model	Serial Number
Water Quality Meter	SmarTroll	965658
Turbidity Meter	HACH	160400049767

Calibration Standard Information

Parameter	Standard	Lot #	Date of Expiration	Brand
D.O. (%)	N/A	DI H_2O	—	PINE
pH (SU)	4.00	4GB1376	2/26	↑
pH (SU)	7.00	3GJ0914	10/25	|
pH (SU)	10.00	3GL0164	12/25	|
Specific Conductance (µS/cm)	1,413	3GJ0727	10/24	|
ORP (mV)	240.0	3GL0404	9/24	↓

	Standard	Lot #	Date of Expiration	Brand
Turbidity (NTU)	0	—	New DI	—
	10	A4172	9/25	Pine
	20	A4183	10/25	|
	100	A4179	10/25	↓

Calibration

Time Start: 1500 Time Finish: 1525

Parameter	Standard	Calibration Value	Calibration Solution Temperature (°C)	Acceptance Criteria	Reference
D.O. (%)	N/A	100.39	28.26	± 10%	EPA 2023
pH (SU)	4.00	3.97	27.16	± 0.1	GWMP
pH (SU)	7.00	7.00	26.49	± 0.1	GWMP
pH (SU)	10.00	10.00	26.04	± 0.1	GWMP
Specific Conductance (µS/cm)	1,413	1391	27.20	± 10% of standard	NA
ORP (mV)	240.0	232.8	26.88	± 10	EPA 2023

	Standard	Calibration Value	Acceptance Criteria	Reference
Turbidity (NTU)	0	0.27	± 10% of standard	EPA 2023
	10	10.3		
	20	19.2		
	100	98.7		

Calibration Check

Time Start Time Finish

Parameter	Standard	Calibration Value	Calibration Solution Temperature (°C)	Acceptance Criteria	Reference
pH (SU)	4.00			± 0.1	GWMP
pH (SU)	7.00	N/A		± 0.1	GWMP
pH (SU)	10.00			± 0.1	GWMP
Specific Conductance (µS/cm)	1,413			± 10% of standard	EPA 2023

	Standard	Calibration Value	Acceptance Criteria	Reference
Turbidity (NTU)	0		± 10% of standard	EPA 2023
	10			
	20			
	100			

Notes: Calibrated at 1500, therefore no calibration check

Field Instrumentation Calibration Form

ATLANTIC COAST CONSULTING, INC.

Site Name: Grumman Road Date: 8-20-24

Calibrated By: T. Goble Field Conditions: Sunny 75°

Instrument	Manufactuer/ Model	Serial Number
Water Quality Meter	SmarTroll	965658
Turbidity Meter	HACH	16040C049767

Calibration Standard Information				
Parameter	**Standard**	**Lot #**	**Date of Expiration**	**Brand**
D.O. (%)	N/A	—	—	Sponge
pH (SU)	4.00	4GB1376	2/26	Pine
pH (SU)	7.00	3GJ0919	10/25	|
pH (SU)	10.00	3GL0168	12/25	|
Specific Conductance (µS/cm)	1,413	3GJ0727	10/24	|
ORP (mV)	240.0	3GL0404	9/24	|

	Standard	**Lot #**	**Date of Expiration**	**Brand**
Turbidity (NTU)	0	—	—	New DI
	10	A4172	9/25	Pine
	20	A4183	10/25	|
	100	A4179	10/25	|

Calibration					
Time Start: 0800		**Time Finish:** 0820			
Parameter	**Standard**	**Calibration Value**	**Calibration Solution Temperature (°C)**	**Acceptance Criteria**	**Reference**
D.O. (%)	N/A	101.09	24.73	± 10%	EPA 2023
pH (SU)	4.00	4.00	27.41	± 0.1	GWMP
pH (SU)	7.00	6.99	27.99	± 0.1	GWMP
pH (SU)	10.00	9.95	28.20	± 0.1	GWMP
Specific Conductance (µS/cm)	1,413	1475	26.62	± 10% of standard	NA
ORP (mV)	240.0	231.9	27.91	± 10	EPA 2023

	Standard	**Calibration Value**	**Acceptance Criteria**	**Reference**
Turbidity (NTU)	0	0.29	± 10% of standard	EPA 2023
	10	10.7		
	20	20.3		
	100	101		

Calibration Check					
Time Start 1200		**Time Finish** 1215			
Parameter	**Standard**	**Calibration Value**	**Calibration Solution Temperature (°C)**	**Acceptance Criteria**	**Reference**
pH (SU)	4.00	4.06	27.70	± 0.1	GWMP
pH (SU)	7.00	7.03	27.61	± 0.1	GWMP
pH (SU)	10.00	9.95	27.33	± 0.1	GWMP
Specific Conductance (µS/cm)	1,413	1427	27.81	± 10% of standard	EPA 2023

	Standard	**Calibration Value**	**Acceptance Criteria**	**Reference**
Turbidity (NTU)	0	0.17	± 10% of standard	EPA 2023
	10	10.4		
	20	20.1		
	100	101		

Notes:

Field Instrumentation Calibration Form

ATLANTIC COAST CONSULTING, INC.

Site Name: Grumman Road

Date: 9-21-24

Calibrated By: T. Goble

Field Conditions: Cloudy 74°

Instrument	Manufactuer/ Model	Serial Number
Water Quality Meter	SmarTroll	965658
Turbidity Meter	HACH	16040C04967

Calibration Standard Information				
Parameter	Standard	Lot #	Date of Expiration	Brand
D.O. (%)	N/A	—	—	Sponge Pine
pH (SU)	4.00	4GE0127	5/26	
pH (SU)	7.00	3GJ0918	10/25	
pH (SU)	10.00	3GL0168	12/25	
Specific Conductance (µS/cm)	1,413	3GJ0727	10/24	
ORP (mV)	240.0	3GL0404	9/24	

	Standard	Lot #	Date of Expiration	Brand
Turbidity (NTU)	0	—	—	New DI Pine
	10	A4172	9/25	
	20	A4183	10/25	
	100	A4179	10/25	

Calibration					
Time Start: 0815		Time Finish: 0840			
Parameter	Standard	Calibration Value	Calibration Solution Temperature (°C)	Acceptance Criteria	Reference
D.O. (%)	N/A	101.8 %	23.25	± 10%	EPA 2023
pH (SU)	4.00	4.00	25.55	± 0.1	GWMP
pH (SU)	7.00	7.00	26.08	± 0.1	GWMP
pH (SU)	10.00	10.00	26.17	± 0.1	GWMP
Specific Conductance (µS/cm)	1,413	1412	24.60	± 10% of standard	NA
ORP (mV)	240.0	243.7	25.67	± 10	EPA 2023

	Standard	Calibration Value	Acceptance Criteria	Reference
Turbidity (NTU)	0	0.30	± 10% of standard	EPA 2023
	10	10.0		
	20	20.6		
	100	101		

Calibration Check					
Time Start 1230		Time Finish 1240			
Parameter	Standard	Calibration Value	Calibration Solution Temperature (°C)	Acceptance Criteria	Reference
pH (SU)	4.00	3.98	26.50	± 0.1	GWMP
pH (SU)	7.00	6.99	26.31	± 0.1	GWMP
pH (SU)	10.00	9.96	26.77	± 0.1	GWMP
Specific Conductance (µS/cm)	1,413	1417	25.72	± 10% of standard	EPA 2023

	Standard	Calibration Value	Acceptance Criteria	Reference
Turbidity (NTU)	0	0.19	± 10% of standard	EPA 2023
	10	10.3		
	20	20.2		
	100	101		

Notes:

Field Instrumentation Calibration Form

ATLANTIC COAST CONSULTING, INC.

Site Name: Grumman

Date: 8/19/24

Calibrated By: D. Johnson

Field Conditions: Sunny, 91°F.

Instrument	Manufactuer/ Model	Serial Number
Water Quality Meter	Troll	883530 - AIR rensar,
Turbidity Meter	HACH	2208000008603

Calibration Standard Information				
Parameter	Standard	Lot #	Date of Expiration	Brand
D.O. (%)	N/A	—	—	—
pH (SU)	4.00	4GE0127	05/24	Pine
pH (SU)	7.00	4GD1667	04/26	Pine
pH (SU)	10.00	3GG0538	07/25	Pine
Specific Conductance (µS/cm)	1,413	3GJ0727	10/24	Pine
ORP (mV)	240.0	02/25	4GE1370	Pine
Turbidity (NTU)	Standard	Lot #	Date of Expiration	Brand
	0	—	—	—
	10	A4172	09/25	Hach
	20	A4179	10/25	Hach
	100	A4177	10/25	Hach

Calibration					
Time Start: 1505		Time Finish: 1520			
Parameter	Standard	Calibration Value	Calibration Solution Temperature (°C)	Acceptance Criteria	Reference
D.O. (%)	N/A	108.10	34.72	± 10%	EPA 2023
pH (SU)	4.00	4.01	29.08	± 0.1	GWMP
pH (SU)	7.00	6.99	28.96	± 0.1	GWMP
pH (SU)	10.00	9.95	29.69	± 0.1	GWMP
Specific Conductance (µS/cm)	1,413	1420	25.00	± 10% of standard	NA
ORP (mV)	240.0	243.0	28.83	± 10	EPA 2023
Turbidity (NTU)	Standard	Calibration Value	Acceptance Criteria	Reference	
	0	0.36	± 10% of standard	EPA 2023	
	10	9.83			
	20	20.2			
	100	99.2			

Calibration Check					
Time Start		Time Finish			
Parameter	Standard	Calibration Value	Calibration Solution Temperature (°C)	Acceptance Criteria	Reference
pH (SU)	4.00			± 0.1	GWMP
pH (SU)	7.00			± 0.1	GWMP
pH (SU)	10.00			± 0.1	GWMP
Specific Conductance (µS/cm)	1,413			± 10% of standard	EPA 2023
Turbidity (NTU)	Standard	Calibration Value	Acceptance Criteria	Reference	
	0		± 10% of standard	EPA 2023	
	10				
	20				
	100				

Notes:

Field Instrumentation Calibration Form

ATLANTIC COAST CONSULTING, INC.

Site Name: Grumman Date: 8/20/24

Calibrated By: D. Johnson Field Conditions: Sunny, 75° F.

Instrument	Manufactuer/ Model	Serial Number
Water Quality Meter	Troll	883530
Turbidity Meter	Hach	220800C00803

Calibration Standard Information				
Parameter	**Standard**	**Lot #**	**Date of Expiration**	**Brand**
D.O. (%)	N/A	—	—	—
pH (SU)	4.00	4GE0127	05/24	Fine
pH (SU)	7.00	4GD16627	04/26	Fine
pH (SU)	10.00	3GG0538	07/25	Fine
Specific Conductance (µS/cm)	1,413	3GJ0727	10/24	Fine
ORP (mV)	240.0	4GE1370	02/25	Fine

	Standard	**Lot #**	**Date of Expiration**	**Brand**
Turbidity (NTU)	0	—	—	—
	10	A4172	09/25	Hach
	20	A4179	10/25	Hach
	100	A4177	10/25	Hach

Calibration					
Time Start: 0815		**Time Finish:** 0825			
Parameter	**Standard**	**Calibration Value**	**Calibration Solution Temperature (°C)**	**Acceptance Criteria**	**Reference**
D.O. (%)	N/A	99.9 %	26.30	± 10%	EPA 2023
pH (SU)	4.00	4.00	26.07	± 0.1	GWMP
pH (SU)	7.00	7.00	25.68	± 0.1	GWMP
pH (SU)	10.00	10.00	25.74	± 0.1	GWMP
Specific Conductance (µS/cm)	1,413	1422	25.00	± 10% of standard	NA
ORP (mV)	240.0	233	25.51	± 10	EPA 2023

	Standard	**Calibration Value**	**Acceptance Criteria**	**Reference**
Turbidity (NTU)	0	0.11	± 10% of standard	EPA 2023
	10	10.2		
	20	19.9		
	100	99.4		

Calibration Check					
Time Start 1232		**Time Finish** 1237			
Parameter	**Standard**	**Calibration Value**	**Calibration Solution Temperature (°C)**	**Acceptance Criteria**	**Reference**
pH (SU)	4.00	4.01	28.91	± 0.1	GWMP
pH (SU)	7.00	7.00	29.82	± 0.1	GWMP
pH (SU)	10.00	10.02	29.88	± 0.1	GWMP
Specific Conductance (µS/cm)	1,413	1420	28.72	± 10% of standard	EPA 2023

	Standard	**Calibration Value**	**Acceptance Criteria**	**Reference**
Turbidity (NTU)	0	0.20	± 10% of standard	EPA 2023
	10	10.0		
	20	20.1		
	100	100		

Notes:

Field Instrumentation Calibration Form

Atlantic Coast Consulting, Inc.

Site Name: Grumman Date: 8/21/24

Calibrated By: D. Johnson Field Conditions: Sunny, 73°f

Instrument	Manufactuer/ Model	Serial Number
Water Quality Meter	Troll	883530
Turbidity Meter	HACH	22080D0C803

→ 5 switch meters @ 1125. 884189.

Calibration Standard Information				
Parameter	Standard	Lot #	Date of Expiration	Brand
D.O. (%)	N/A	—	—	—
pH (SU)	4.00	HG60127	05/24	Pine
pH (SU)	7.00	HGD1667	04/26	Pine
pH (SU)	10.00	36G0838	07/25	Pine
Specific Conductance (µS/cm)	1,413	36G0727	10/24	Pine
ORP (mV)	240.0	HGE1370	02/25	Pine

	Standard	Lot #	Date of Expiration	Brand
Turbidity (NTU)	0	—	—	—
	10	A4172	09/25	Hach
	20	A4179	10/25	Hach
	100	A4177	10/25	Hach

Calibration					
Time Start: 0820		Time Finish: 0834			
Parameter	Standard	Calibration Value	Calibration Solution Temperature (°C)	Acceptance Criteria	Reference
D.O. (%)	N/A	100.34	23.75	± 10%	EPA 2023
pH (SU)	4.00	4.00	23.70	± 0.1	GWMP
pH (SU)	7.00	7.00	23.57	± 0.1	GWMP
pH (SU)	10.00	10.00	23.80	± 0.1	GWMP
Specific Conductance (µS/cm)	1,413	1416	25.00	± 10% of standard	NA
ORP (mV)	240.0	231	23.65	± 10	EPA 2023

	Standard	Calibration Value	Acceptance Criteria	Reference
Turbidity (NTU)	0	0.11	± 10% of standard	EPA 2023
	10	10.2		
	20	20.2		
	100	99.9		

5 switch meters SN 884189

Calibration Check					
Time Start 1125		Time Finish 1135			
Parameter	Standard	Calibration Value	Calibration Solution Temperature (°C)	Acceptance Criteria	Reference
pH (SU)	4.00	4.00	26.32	± 0.1	GWMP
pH (SU)	7.00	7.00	26.	± 0.1	GWMP
pH (SU)	10.00	10.00		± 0.1	GWMP
Specific Conductance (µS/cm)	1,413	1413		± 10% of standard	EPA 2023

DO = ~~HH~~ 100.09
ORP = 240.

	Standard	Calibration Value	Acceptance Criteria	Reference
Turbidity (NTU)	0	0	± 10% of standard	EPA 2023
	10	10.1		
	20	20.1		
	100	100		

Notes:

Field Instrumentation Calibration Form

Atlantic Coast Consulting, Inc.

Site Name: Grumman Date: 8/21/24

Calibrated By: D. Johnson Field Conditions: 77°F, Sunny

Instrument	Manufactuer/ Model	Serial Number
Water Quality Meter	Troll	884189
Turbidity Meter	HACH	22080D000803

Calibration Standard Information				
Parameter	**Standard**	**Lot #**	**Date of Expiration**	**Brand**
D.O. (%)	N/A	DI H_2O	N/A	N/A
pH (SU)	4.00	4GE0127	05/26	PINE
pH (SU)	7.00	4GD1667	04/26	PINE
pH (SU)	10.00	3GG0538	07/25	PINE
Specific Conductance (µS/cm)	1,413	3GJ0727	10/24	PINE
ORP (mV)	240.0	4GE1370	02/25	PINE

	Standard	**Lot #**	**Date of Expiration**	**Brand**
Turbidity (NTU)	0	DI H_2O	N/A	N/A
	10	~~10.1~~ AY172	09/25	HACH
	20	~~20.0~~ AY183	10/25	HACH
	100	~~99.9~~ AY179	10/25	HACH

Calibration					
Time Start: 1130		**Time Finish:** 1145			
Parameter	**Standard**	**Calibration Value**	**Calibration Solution Temperature (°C)**	**Acceptance Criteria**	**Reference**
D.O. (%)	N/A	100.1	31.42	± 10%	EPA 2023
pH (SU)	4.00	4.01	31.20	± 0.1	GWMP
pH (SU)	7.00	6.99	31.68	± 0.1	GWMP
pH (SU)	10.00	9.95	31.78	± 0.1	GWMP
Specific Conductance (µS/cm)	1,413	1417	25.00	± 10% of standard	NA
ORP (mV)	240.0	239.1	24.25	± 10	EPA 2023

	Standard	**Calibration Value**	**Acceptance Criteria**	**Reference**
Turbidity (NTU)	0	0.13	± 10% of standard	EPA 2023
	10	10.1		
	20	20.0		
	100	99.9		

Calibration Check					
Time Start		**Time Finish**			
Parameter	**Standard**	**Calibration Value**	**Calibration Solution Temperature (°C)**	**Acceptance Criteria**	**Reference**
pH (SU)	4.00			± 0.1	GWMP
pH (SU)	7.00			± 0.1	GWMP
pH (SU)	10.00			± 0.1	GWMP
Specific Conductance (µS/cm)	1,413			± 10% of standard	EPA 2023

	Standard	**Calibration Value**	**Acceptance Criteria**	**Reference**
Turbidity (NTU)	0		± 10% of standard	EPA 2023
	10			
	20			
	100			

Notes: Old troll reading incorrectly. ~~=~~ This is the new troll full cal.

Field Instrumentation Calibration Form

ATLANTIC COAST CONSULTING, INC.

Site Name: Germann Rd Date: 8/21/24

Calibrated By: J. Bernstead Field Conditions: Sunny

Instrument	Manufactuer/ Model	Serial Number
Water Quality Meter	Aquatrol 500	689325
Turbidity Meter	HACH 2100Q	22080D011127

Calibration Standard Information				
Parameter	**Standard**	**Lot #**	**Date of Expiration**	**Brand**
D.O. (%)	N/A	DI H_2O	N/A	N/A
pH (SU)	4.00	4GB1376	Feb-26	PINE
pH (SU)	7.00	4GC0526	Mar-26	PINE
pH (SU)	10.00	4GC0600	Mar-26	PINE
Specific Conductance (µS/cm)	1,413	3GL0664	Dec-24	PINE
ORP (mV)	240.0	3GL0404	Sep-24	PINE

	Standard	Lot #	Date of Expiration	Brand
Turbidity (NTU)	0	DI H_2O	N/A	N/A
	10	A4174	9/25	HACH
	20	~~A4179~~ A4183	10/25	HACH
	100	A4179	10/25	HACH

Calibration					
Time Start: 0935		**Time Finish:** 0946			
Parameter	**Standard**	**Calibration Value**	**Calibration Solution Temperature (°C)**	**Acceptance Criteria**	**Reference**
D.O. (%)	N/A	100.51	23.87	± 10%	EPA 2023
pH (SU)	4.00	4.00	24.58	± 0.1	GWMP
pH (SU)	7.00	7.00	24.60	± 0.1	GWMP
pH (SU)	10.00	10.00	24.56	± 0.1	GWMP
Specific Conductance (µS/cm)	1,413	1413	24.63	± 10% of standard	NA
ORP (mV)	~~240.0~~ 229	229	24.62	± 10	EPA 2023

	Standard	Calibration Value	Acceptance Criteria	Reference
Turbidity (NTU)	0	0.36	± 10% of standard	EPA 2023
	10	10.3		
	20	20.4		
	100	101		

Calibration Check					
Time Start 1317		**Time Finish** 1329			
Parameter	**Standard**	**Calibration Value**	**Calibration Solution Temperature (°C)**	**Acceptance Criteria**	**Reference**
pH (SU)	4.00	4.01	26.62	± 0.1	GWMP
pH (SU)	7.00	7.04	26.84	± 0.1	GWMP
pH (SU)	10.00	10.02	26.55	± 0.1	GWMP
Specific Conductance (µS/cm)	1,413	1519	26.60	± 10% of standard	EPA 2023

	Standard	Calibration Value	Acceptance Criteria	Reference
Turbidity (NTU)	0	0.33	± 10% of standard	EPA 2023
	10	9.93		
	20	19.9		
	100	106		

Notes:

Field Instrumentation Calibration Form

ATLANTIC COAST CONSULTING, INC.

Site Name: ~~Hickory Hill~~ Grumman Rd Date: 08-21-24

Calibrated By: J. May Field Conditions: Sunny, 80s

Instrument	Manufactuer/ Model	Serial Number
Water Quality Meter	In Situ AquaTroll	863127
Turbidity Meter	Hach 2100 Q	24010D000426

Calibration Standard Information				
Parameter	**Standard**	**Lot #**	**Date of Expiration**	**Brand**
D.O. (%)	N/A	DI Water	—	—
pH (SU)	4.00	4GE0127	05/26	PINE
pH (SU)	7.00	4GD1007	04/26	PINE
pH (SU)	10.00	4GC0600	03/26	PINE
Specific Conductance (µS/cm)	1,413	4GE0258	05/25	PINE
ORP (mV)	240.0	4GE1310	02/25	PINE

	Standard	**Lot #**	**Date of Expiration**	**Brand**
Turbidity (NTU)	0	DI Water	—	~~Hach~~
	10	A4029	05/25	Hach
	20	A33603	04/25	Hach
	100	A4002	04/25	Hach

Calibration					
Time Start: 0950		**Time Finish:** 1000			
Parameter	**Standard**	**Calibration Value**	**Calibration Solution Temperature (°C)**	**Acceptance Criteria**	**Reference**
D.O. (%)	N/A	100.18	29.12	± 10%	EPA 2023
pH (SU)	4.00	4.00	26.97	± 0.1	GWMP
pH (SU)	7.00	7.00	27.48	± 0.1	GWMP
pH (SU)	10.00	10.00	27.03	± 0.1	GWMP
Specific Conductance (µS/cm)	1,413	1413.0	27.30	± 10% of standard	NA
ORP (mV)	240.0	227.0	27.57	± 10	EPA 2023

	Standard	**Calibration Value**	**Acceptance Criteria**	**Reference**
Turbidity (NTU)	0	0.12	± 10% of standard	EPA 2023
	10	10.1		
	20	20.1		
	100	101		

Calibration Check					
Time Start 1550		**Time Finish** 1600			
Parameter	**Standard**	**Calibration Value**	**Calibration Solution Temperature (°C)**	**Acceptance Criteria**	**Reference**
pH (SU)	4.00	4.01	32.44	± 0.1	GWMP
pH (SU)	7.00	6.99	32.25	± 0.1	GWMP
pH (SU)	10.00	9.91	32.57	± 0.1	GWMP
Specific Conductance (µS/cm)	1,413	1413.0	32.40	± 10% of standard	EPA 2023

	Standard	**Calibration Value**	**Acceptance Criteria**	**Reference**
Turbidity (NTU)	0	0.07	± 10% of standard	EPA 2023
	10	10.0		
	20	20.1		
	100	99.4		

Field Instrumentation Calibration Form

ATLANTIC COAST CONSULTING, INC.

Site Name: Grumman Rd

Date: 08-22-24

Calibrated By: J. May

Field Conditions: Sunny, 80s

Instrument	Manufactuer/ Model	Serial Number
Water Quality Meter	In Situ Aquatroll	863127
Turbidity Meter	Hach 2100Q	24010D006426

Calibration Standard Information				
Parameter	**Standard**	**Lot #**	**Date of Expiration**	**Brand**
D.O. (%)	N/A	DI Water	—	—
pH (SU)	4.00	4GF0127	05/26	PINE
pH (SU)	7.00	4GD1607	04/26	PINE
pH (SU)	10.00	4GC0608	03/26	PINE
Specific Conductance (µS/cm)	1,413	4GE0258	05/25	PINE
ORP (mV)	240.0	4GE1370	02/25	PINE

	Standard	**Lot #**	**Date of Expiration**	**Brand**
Turbidity (NTU)	0	DI Water	—	—
	10	A4029	05/25	Hach
	20	A3363	04/25	Hach
	100	A4002	04/25	Hach

Calibration					
Time Start: 0755		**Time Finish:** 0810			
Parameter	**Standard**	**Calibration Value**	**Calibration Solution Temperature (°C)**	**Acceptance Criteria**	**Reference**
D.O. (%)	N/A	98.86	23.69	± 10%	EPA 2023
pH (SU)	4.00	4.00	24.38	± 0.1	GWMP
pH (SU)	7.00	7.00	24.36	± 0.1	GWMP
pH (SU)	10.00	10.06	24.41	± 0.1	GWMP
Specific Conductance (µS/cm)	1,413	1413.0	24.40	± 10% of standard	NA
ORP (mV)	240.0	227.6	24.65	± 10	EPA 2023

	Standard	**Calibration Value**	**Acceptance Criteria**	**Reference**
Turbidity (NTU)	0	0.07	± 10% of standard	EPA 2023
	10	10.0		
	20	20.2		
	100	101		

Calibration Check					
~~Time Start~~		Time Finish			
Parameter	**Standard**	**Calibration Value**	**Calibration Solution Temperature (°C)**	**Acceptance Criteria**	**Reference**
pH (SU)	4.00			± 0.1	GWMP
pH (SU)	7.00			± 0.1	GWMP
pH (SU)	10.00			± 0.1	GWMP
Specific Conductance (µS/cm)	1,413			± 10% of standard	EPA 2023

	Standard	**Calibration Value**	**Acceptance Criteria**	**Reference**
Turbidity (NTU)	0		± 10% of standard	EPA 2023
	10			
	20			
	100			

APPENDIX A

Well Inspection Forms
August 2024 Monitoring Event

Well Inspection

Site Name: Plant Kraft Grummand Road Landfill

Date: 8/19/2024

Permit Number: 025-061D(LI)

Field Conditions: Fair, Calm Winds

Well ID:	Location/Identification			
	Visible and accessible	Properly identified with correct well ID	Located in high traffic area; does the well require protection from traffic	Acceptable drainage around well (no standing water, not located in obvious drainage flow path)
GWC-1	YES	YES	NO	YES
GWC-2	YES	YES	NO	YES
GWB-4R	YES	YES	NO	YES
GWB-5R	YES	YES	NO	YES
GWB-6R	YES	YES	NO	YES
GWA-7	YES	YES	NO	YES
GWA-8	YES	YES	NO	YES
GWC-9	YES	YES	NO	YES
GWC-10	YES	YES	NO	YES
GWC-11	YES	YES	NO	YES
GWC-12	YES	YES	NO	YES
GWC-13	YES	YES	NO	YES
GWC-14	YES	YES	NO	YES
GWC-15	YES	YES	NO	YES
GWC-16	YES	YES	NO	YES
GWC-17	YES	YES	NO	YES
GWC-20	YES	YES	NO	YES
GWC-21	YES	YES	NO	YES
GWC-22	YES	YES	NO	YES
MW-23D	YES	YES	NO	YES
MW-24D	YES	YES	NO	YES
MW-25D	YES	YES	NO	YES
MW-26D	YES	YES	NO	YES
MW-27D	YES	YES	NO	YES

Well Inspection

Site Name: Plant Kraft Grummand Road Landfill Date: 8/19/2024

Permit Number: 025-061D(LI) Field Conditions: Fair, Calm Winds

Well ID:	Protective Casing				
	Free from apparent damage and able to be secured	No degradation or deterioration	Functioning weep hole	Annular space clear of debris and water, or filled with pea gravel/sand	Locked and is the lock in good condition
GWC-1	YES	YES	YES	YES	YES
GWC-2	YES	YES	YES	YES	YES
GWB-4R	YES	YES	YES	YES	YES
GWB-5R	YES	YES	YES	YES	YES
GWB-6R	YES	YES	YES	YES	YES
GWA-7	YES	YES	YES	YES	YES
GWA-8	YES	YES	YES	YES	YES
GWC-9	YES	YES	YES	YES	YES
GWC-10	YES	YES	YES	YES	YES
GWC-11	YES	YES	YES	YES	YES
GWC-12	YES	YES	YES	YES	YES
GWC-13	YES	YES	YES	YES	YES
GWC-14	YES	YES	YES	YES	YES
GWC-15	YES	YES	YES	YES	YES
GWC-16	YES	YES	YES	YES	YES
GWC-17	YES	YES	YES	YES	YES
GWC-20	YES	YES	YES	YES	YES
GWC-21	YES	YES	YES	YES	YES
GWC-22	YES	YES	YES	YES	YES
MW-23D	YES	YES	YES	YES	YES
MW-24D	YES	YES	YES	YES	YES
MW-25D	YES	YES	YES	YES	YES
MW-26D	YES	YES	YES	YES	YES
MW-27D	YES	YES	YES	YES	YES

Well Inspection

Site Name: Plant Kraft Grummand Road Landfill

Date: 8/19/2024

Permit Number: 025-061D(LI)

Field Conditions: Fair, Calm Winds

	Surface Pad			Internal Casing		
Well ID:	Good condition (not cracked/ broken)	Sloped away from the protective casing	In complete contact with the ground surface and stable	Cap prevents entry of foreign material into the well	Free of kinks/bends, or any obstructions from foreign objects (such as bailers)	Properly vented for equilibration of air pressure
GWC-1	YES	YES	YES	YES	YES	YES
GWC-2	YES	YES	YES	YES	YES	YES
GWB-4R	YES	YES	YES	YES	YES	YES
GWB-5R	YES	YES	YES	YES	YES	YES
GWB-6R	YES	YES	YES	YES	YES	YES
GWA-7	YES	YES	YES	YES	YES	YES
GWA-8	YES	YES	YES	YES	YES	YES
GWC-9	YES	YES	YES	YES	YES	YES
GWC-10	YES	YES	YES	YES	YES	YES
GWC-11	YES	YES	YES	YES	YES	YES
GWC-12	YES	YES	YES	YES	YES	YES
GWC-13	YES	YES	YES	YES	YES	YES
GWC-14	YES	YES	YES	YES	YES	YES
GWC-15	YES	YES	YES	YES	YES	YES
GWC-16	YES	YES	YES	YES	YES	YES
GWC-17	YES	YES	YES	YES	YES	YES
GWC-20	YES	YES	YES	YES	YES	YES
GWC-21	YES	YES	YES	YES	YES	YES
GWC-22	YES	YES	YES	YES	YES	YES
MW-23D	YES	YES	YES	YES	YES	YES
MW-24D	YES	YES	YES	YES	YES	YES
MW-25D	YES	YES	YES	YES	YES	YES
MW-26D	YES	YES	YES	YES	YES	YES
MW-27D	YES	YES	YES	YES	YES	YES

Well Inspection

Site Name: Plant Kraft Grummand Road Landfill

Date: 8/19/2024

Permit Number: 025-061D(LI)

Field Conditions: Fair, Calm Winds

Well ID:	Corrective actions as needed, by date:
GWC-1	
GWC-2	
GWB-4R	
GWB-5R	
GWB-6R	
GWA-7	
GWA-8	
GWC-9	
GWC-10	
GWC-11	
GWC-12	
GWC-13	
GWC-14	
GWC-15	
GWC-16	
GWC-17	
GWC-20	
GWC-21	
GWC-22	
MW-23D	
MW-24D	
MW-25D	
MW-26D	
MW-27D	

APPENDIX B

Statistical Analysis Reports

Grumman Road Private Industrial Landfill
Chatham County, Georgia
2024 Semiannual Groundwater Monitoring and Corrective Action Report

APPENDIX B

Statistical Analysis Report
August 2024 Monitoring Event

GROUNDWATER STATS CONSULTING

February 28, 2025

Southern Company Services
Attn: Ms. Kristen Jurinko
241 Ralph McGill Blvd NE, Bin 10160
Atlanta, Georgia 30308

Re: Plant Kraft's Grumman Road Landfill
Statistical Analysis – August 2024 Sample Event

Dear Ms. Jurinko,

Groundwater Stats Consulting, formerly the statistical consulting division of Sanitas Technologies, is pleased to provide the groundwater statistical analysis of the August 2024 sample event for Georgia Power Company's Plant Kraft's Grumman Road Landfill. The analysis complies with the Georgia Environmental Protection Division (EPD) Rules for Solid Waste Management Chapter 391-3-4-.10 and follows the United States Environmental Protection Agency (USEPA) Unified Guidance (2009).

Sampling began for the Coal Combustion Residuals (CCR) program in 2016, and at least 8 background samples were collected at each of the groundwater monitoring wells. Semi-annual sampling of the majority of Appendix IV constituents has been performed at most wells for several years in accordance with the Georgia Department of Natural Resources, Environmental Protection Division groundwater monitoring regulations. The monitoring well network, as provided by Southern Company Services, consists of the following:

- **Upgradient wells:** GWA-7 and GWA-8
- **Downgradient wells:** GWB-4R, GWB-5R, GWB-6R, GWC-1, GWC-2, GWC-9, GWC-11, GWC-12, GWC-13, GWC-14, GWC-15, GWC-16, GWC-17, GWC-20, GWC-21, and GWC-22
- **Assessment wells:** MW-23D, MW-24D, MW-25D, and MW-26D

Assessment wells were installed in late 2020 and were first sampled in early 2021 for all constituents except mercury, which was first sampled in September 2021. These assessment wells currently have limited samples available; however, data are evaluated

with confidence intervals for well/constituent pairs when a minimum of four observations is available. Note that sampling has ceased at assessment well MW-27D; therefore, no analysis was required. Sampling has resumed at assessment well MW-26D and is included in this analysis.

Data were sent electronically to Groundwater Stats Consulting, and the statistical analysis was reviewed by Andrew Collins, Project Manager for Groundwater Stats Consulting.

The program monitors the constituents listed below. Georgia EPD Appendix II and CCR Appendix IV constituents overlap with the exception of vanadium and zinc, which are required for Georgia EPD. The terms "parameters" and "constituents" are used interchangeably throughout.

- **Georgia EPD Appendix I** (Detection Monitoring) **–** antimony, arsenic, barium, chromium, lead, selenium, vanadium, and zinc
- **CCR Appendix III** (Detection Monitoring) **-** boron, calcium, chloride, fluoride, pH, sulfate, and TDS
- **Georgia EPD Appendix II/CCR Appendix IV** (Assessment Monitoring) **–** antimony, arsenic, barium, beryllium, cadmium, chromium, cobalt, combined radium 226 + 228, fluoride, lead, lithium, mercury, molybdenum, selenium, thallium, vanadium, and zinc

Note that when there are no detections present in downgradient wells for a given constituent, statistical analyses are not required. A summary of well/constituent pairs containing 100% non-detects follows this letter.

Time series plots for all parameters at each well are provided for the purpose of screening data at these wells (Figure A). Additionally, time series plots of all parameters at upgradient wells are included to more easily display concentrations upgradient of the facility. A separate section of box plots is included for all constituents at upgradient and downgradient wells (Figure B). The time series plots are used to initially screen for suspected outliers and trends, while the box plots provide visual representation of variation within both individual wells and between all wells. Values in background which have been flagged as outliers may be seen in a lighter font and as a disconnected symbol on the graphs. A summary of flagged outliers follows this report (Figure C).

Due to varying detection limits in background data sets as a result of improved laboratory practices, a substitution of the most recent reporting limit is used for all non-detects. Of particular note is the historical reporting limits at upgradient well GWA-7 which were periodically elevated due to higher dilutions required for some metal analyses for this

well. Substituting the most recent reporting limit for historical non-detects results in construction of statistical limits conservative (i.e., lower) from a regulatory perspective. In the case of lithium, a historic and lower reporting limit of 0.03 mg/L was substituted across all wells to maintain conservative limits.

Data at all wells were originally evaluated during 2019 for the following: 1) outliers; 2) trends; 3) most appropriate statistical method for parameters based on site characteristics of groundwater data upgradient of the facility; and 4) eligibility of downgradient wells when intrawell statistical methods are recommended. However, interwell methods are currently implemented in accordance with the Georgia EPD regulations and are used to evaluate compliance samples in downgradient wells. Power curves were provided with the previous screening and demonstrated that the selected statistical methods comply with the USEPA Unified Guidance. The EPA suggests that the selected statistical method should provide at least 55% power at 3 standard deviations or at least 80% power at 4 standard deviations.

Summary of Statistical Methods – Detection Monitoring

Georgia EPD Appendix I Constituents:
Semi-Annual Sampling
Interwell Prediction Limits with 1 of 2 resample plan
Constituents Downgradient: 8
Downgradient wells: 16

CCR Appendix III Constituents:
Semi-Annual Sampling
Interwell Prediction Limits with 1 of 2 resample plan
Constituents Downgradient: 7
Downgradient wells: 16

Parametric prediction limits are utilized when the screened historical data follow a normal or transformed-normal distribution. When data cannot be normalized or the majority of data are non-detects, a nonparametric test is utilized. While the false positive rate associated with the parametric limits is based on an annual rate of 10% (5% per semi-annual event) as recommended by the EPA Unified Guidance (2009), the false positive rate associated with the nonparametric limits is dependent upon the available background sample size, number of future comparisons, and verification resample plan. The distribution of data is tested using the Shapiro-Wilk/Shapiro-Francia test for normality. After testing for normality and performing any adjustments as discussed below (US EPA,

2009), data are analyzed using either parametric or non-parametric prediction limits, along with the following methodology for handling non-detects:

- No statistical analyses are required on wells and analytes containing 100% non-detects (USEPA Unified Guidance, 2009, Chapter 6).
- When data contain <15%, simple substitution of one-half the reporting limit is utilized in the statistical analysis. The reporting limit utilized for non-detects is the most recent practical quantification limit (PQL) as reported by the laboratory. Due to varying detection limits, the following substitution of 0.03 mg/L was made for lithium.
- When data contain between 15-50% non-detects, the Kaplan-Meier non-detect adjustment is applied to the background data for parametric limits. This technique adjusts the mean and standard deviation of the historical concentrations to account for concentrations below the reporting limit.
- Nonparametric prediction limits are used on data containing greater than 50% non-detects.

Natural systems continuously evolve due to physical changes made to the environment. Examples include capping a landfill, paving areas near a well, or lining a drainage channel to prevent erosion. Periodic updating of background statistical limits is necessary to accommodate these types of changes. In the interwell case, prediction limits are updated with upgradient well data during each event after screening for any new outliers. In some cases, an earlier portion of data may require deselection prior to construction of limits to provide sensitive limits that will rapidly detect changes in groundwater quality. Even though the data are excluded from the calculation, the values will continue to be reported and shown in tables and graphs.

Summary of Background Screening – Georgia EPD Appendix I Constituents – Conducted in August 2019

Outlier Testing

Time series plots were used to identify suspected outliers, or extreme values that would result in limits that are not representative of the current background data population. Suspected outliers at all wells and parameters were formally tested using Tukey's box plot method and, when identified, flagged in the computer database with "o" and deselected prior to construction of statistical limits.

Using the Tukey's box plot method, several outliers were identified. A summary of those findings was submitted with the August 2019 report. As a general rule, when the most

recent values are identified as outliers, values are not flagged in the database (except in cases where they would cause background limits to be elevated) as they may represent a possible trend. If future values do not remain at similar concentrations, these values will be flagged as outliers and deselected. Several low values exist in the data sets and appear on the graphs as possible low outliers relative to the laboratory's Practical Quantitation Limit. However, these values are observed trace values (i.e., measurements reported by the laboratory between the Method Detection Limit and the Practical Quantitation Limit) and, therefore, were not flagged as outliers.

Additionally, values that were not identified by Tukey's test and were much higher than the remaining measurements were flagged as appropriate in order to obtain conservative prediction limits that are capable of detecting future changes. As mentioned above, when any values are flagged in the database as outliers, the measurements are plotted in a disconnected and lighter symbol on the time series graph. The accompanying data pages display the flagged value in a lighter font as well.

Seasonality

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

Trend Testing

While trends can be identified by visual inspection, a quantification of the trend and its statistical significance is needed. The Sen's Slope/Mann Kendall trend test, which tests for statistically significant increasing or decreasing trends, was used to evaluate data at all upgradient wells and downgradient wells with detections.

In the absence of suspected contamination, significant trending data are typically not included as part of the background data used for construction of prediction limits. This step serves to eliminate the trend and, thus, reduce variation in background. When statistically significant decreasing trends are present, all available data are evaluated to determine whether earlier concentration levels are significantly different from current reported concentrations and will be deselected as necessary. This step would only apply to upgradient wells GWA-7 and GWA-8 since pooled data from these wells are used to construct interwell prediction limits. While this was not required, when any records of data are truncated for the reasons above, a summary report will be provided to show the date

ranges used in construction of the statistical limits. A summary of the trend analyses was submitted with the screening report.

Determination of Spatial Variation

The Analysis of Variance (ANOVA) was used to statistically evaluate differences in average concentrations among upgradient wells for constituents detected in downgradient wells. The ANOVA assists in identifying the most appropriate statistical approach. Interwell tests, which compare downgradient well data to statistical limits constructed from pooled upgradient well data, are appropriate when average concentrations are similar across upgradient wells. Intrawell tests, which compare compliance data from a single well to screened historical data within the same well, are appropriate when upgradient wells exhibit spatial variation; when statistical limits constructed from upgradient wells are not representative of the current background data population; and when downgradient water quality is unimpacted compared to upgradient water quality for the same parameter.

The ANOVA identified significant differences among upgradient well data for all constituents which would suggest intrawell methods as the most appropriate statistical method. However, interwell methods are currently constructed in accordance with the Georgia EPD regulations and are used to evaluate compliance samples in downgradient wells.

Summary of Background Screening – CCR Appendices III and IV Parameters – Conducted in March 2019

Outlier and Trend Testing

Time series plots were used to identify suspected outliers, or extreme values that would result in limits that are not representative of the current background data population. Suspected outliers at all wells for Appendix III and Appendix IV parameters were formally tested using Tukey's box plot method and, when identified, flagged in the computer database with "o" and deselected prior to construction of statistical limits.

Using the Tukey box plot method, several outliers were identified. A summary of those findings was included with the screening report. When the most recent values are identified as outliers, values were not flagged in the database at this time (except in cases where they would cause background limits to be elevated) as they may represent a possible trend. If future values do not remain at similar concentrations, these values will be flagged as outliers and deselected. Several low values exist in the data sets and appear on the graphs as possible low outliers relative to the laboratory's Practical Quantitation

Limit. However, these values are observed trace values (i.e., measurements reported by the laboratory between the Method Detection Limit and the Practical Quantitation Limit) and, therefore, were not flagged as outliers.

Of the outliers identified by Tukey's method, several values were flagged in the database, and the remaining values were similar to other measurements within a given well or neighboring wells or were reported non-detects.

Seasonality

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

Trend Tests

The results of the Sen's Slope/Mann Kendall trend analyses showed a number of statistically significant increasing and decreasing trends for the Appendix III parameters. Most of the statistically significant trends identified, particularly those in upgradient wells GWA-7 and GWA-8 from which data are used in construction of the interwell prediction limits, were relatively low in magnitude when compared to average concentrations. Also, the background period was short in 2019, making it difficult to determine whether an apparent trend represents a long-term change or simply normal year-to-year variation; therefore, no adjustments were made to the data sets.

Appendix III – Determination of Spatial Variation

The ANOVA identified no variation among upgradient well data for fluoride, making interwell analyses the most appropriate statistical method for this constituent. Variation was noted for boron, calcium, chloride, pH, sulfate, and TDS which suggests the use of intrawell methods as the most appropriate statistical method. However, interwell methods are currently constructed in accordance with the Georgia EPD regulations and are used to evaluate compliance samples in downgradient wells.

Statistical Analysis of Georgia EPD Appendix I Constituents – August 2024

All Appendix I parameters were analyzed using interwell prediction limits. Background (upgradient) well data were reassessed for potential outliers during this analysis. Historic

observations elevated compared to current groundwater concentrations for vanadium at GWA-7 were flagged during the previous analysis to reduce variation in the record and construct statistical limits that are representative of present-day groundwater quality conditions. While several other previously flagged measurements were unflagged as the concentrations no longer are considered outliers, no additional values were flagged during this analysis and a summary of currently flagged outliers follows this report (Figure C).

Interwell Prediction Limits

Interwell prediction limits, combined with a 1-of-2 resample plan, were constructed from screened pooled upgradient well data through August 2024 for antimony, arsenic, barium, chromium, lead, selenium, vanadium, and zinc (Figure D). The August 2024 sample at each downgradient well is compared to these background limits.

In the event of an initial exceedance of compliance well data, the 1-of-2 resample plan allows for collection of one additional sample to determine whether the initial exceedance is confirmed. When the resample confirms the initial exceedance, a statistically significant increase (SSI) is identified and further research would be required to identify the cause of the exceedance (i.e., impact from the site, natural variation, or an off-site source). If the resample falls within the statistical limit, the initial exceedance is considered to be a false positive result, and therefore, no further action is necessary. If no resample is collected, the initial exceedance is automatically confirmed. A summary table and complete graphical results of the interwell prediction limits follow this letter and include a list of exceedances. Exceedances were identified for the following well/constituent pairs:

- Arsenic: GWC-15, GWC-16, and GWC-20
- Barium: GWC-21

Trend Tests – Appendix I Exceedances

When prediction limit exceedances are identified in downgradient wells, data are further evaluated using the Sen's Slope/Mann Kendall trend test to determine whether concentrations are statistically increasing, decreasing, or stable at the 99% confidence level (Figure E). Upgradient well data are included in the trend analyses for all parameters found to exceed their prediction limit in downgradient wells to identify whether similar patterns exist upgradient of the site. When trends are present in upgradient wells it is an indication of variability in groundwater quality unrelated to practices at the site. Statistically significant trends were noted for the following well/constituent pairs:

Increasing Trends:

- Arsenic: GWC-15

Decreasing Trends:

- Arsenic: GWA-7 and GWA-8 (both upgradient)
- Barium: GWA-8 (upgradient)

Note that while the trend test identified a statistically significant decreasing trend for arsenic in upgradient well GWA-8, the slope is displayed as zero which represents the median slope of all the possible pairwise slopes. The zero median slope results from the large number of non-detects in the record, and the negative test statistics result from a few trace values being recorded in the latter part of the records. Both a summary and complete graphical presentation of the trend test results follow this letter.

Statistical Analysis of CCR Appendix III Parameters – August 2024

All Appendix III parameters were analyzed using interwell prediction limits. Background (upgradient) well data were reassessed for potential outliers during this analysis. Elevated historic concentrations for TDS at upgradient well GWA-7 were flagged in order to reduce variation and construct statistical limits that are representative of present-day groundwater quality conditions. A summary of flagged outliers follows this report (Figure C).

Interwell Prediction Limits

Interwell prediction limits, combined with a 1-of-2 resample plan, were constructed using pooled upgradient well data through August 2024 to develop background limits for boron, calcium, chloride, fluoride, pH, sulfate, and TDS (Figure F). In the event of an initial exceedance of compliance well data, the 1-of-2 resample plan allows for collection of one additional sample to determine whether the initial exceedance is confirmed. When the resample confirms the initial exceedance, a statistically significant increase (SSI) is identified and further research would be required to identify the cause of the exceedance (i.e., impact from the site, natural variation, or an off-site source). If the resample falls within the statistical limit, the initial exceedance is considered to be a false positive result and, therefore, no further action is necessary. The August 2024 sample from each downgradient well is compared to the background limit to determine whether there are statistically significant increases (SSIs). Summary tables of the prediction limits follow this letter. Exceedances were identified for the following well/constituent pairs:

- Boron: GWC-16
- Calcium: GWB-4R, GWB-6R, GWC-1, GWC-11, GWC-12, GWC-14,

GWC-15, GWC-16, GWC-17, GWC-20, and GWC-21

- Chloride: GWC-17
- Fluoride: GWC-17
- pH (lower limit): GWC-12
- pH (upper limit): GWC-15
- Sulfate: GWB-4R, GWB-5R, GWB-6R, GWC-11, GWC-12, GWC-16, GWC-17, GWC-20, and GWC-21

Trend Tests – Appendix III Exceedances

Data from downgradient well/constituent pairs found to exceed their respective prediction limit were further evaluated using the Sen's Slope/Mann Kendall trend test at the 99% confidence level along with upgradient wells for the same constituents (Figure G). Upgradient wells are included in the trend analyses for all parameters found to exceed their prediction limit in downgradient wells to identify whether similar patterns exist upgradient of the site. Such patterns are an indication of variability in groundwater unrelated to practices at the site. Statistically significant trends were noted for the following well/constituent pairs:

Increasing:

- Boron: GWA-8 (upgradient) and GWC-16
- Calcium: GWB-4R, GWB-6R, GWC-1, GWC-11, GWC-16, and GWC-21
- pH: GWA-8 (upgradient)
- Sulfate: GWB-4R, GWB-6R, GWC-11, GWC-16, and GWC-21

Decreasing:

- Boron: GWA-7 (upgradient)
- Calcium: GWA-7 (upgradient)
- Chloride: GWA-7 (upgradient)
- Sulfate: GWA-7, GWA-8 (both upgradient), and GWC-12

Statistical Analysis of Georgia EPD Appendix II and CCR Appendix IV – August 2024

For Appendix II and IV parameters, confidence intervals for each downgradient well/constituent pair were compared against corresponding Groundwater Protection Standards (GWPS). GWPS were developed as described below. Well/constituent pairs containing 100% non-detects do not require analysis. Data from upgradient wells for Appendix II and IV parameters are reassessed for outliers during each analysis. A historically high reporting limit of 0.025 mg/L for cobalt at upgradient well GWA-7 was previously flagged in order to construct statistical limits that are more representative of

present-day groundwater quality conditions. As mentioned above, elevated historic concentrations for vanadium at upgradient well GWA-7 were flagged during a previous analysis to reduce variation and construct statistical limits that are representative of present-day groundwater quality conditions. While several other previously flagged measurements were unflagged as the concentrations no longer are considered outliers, no additional values were flagged during this analysis and a summary of previously flagged outliers follows this report (Figure C).

Interwell Upper Tolerance Limits

Interwell upper tolerance limits (UTLs) are calculated using Sanitas software, from all historical pooled upgradient well data for Appendix II and IV constituents through August 2024 (Figure H). The UTLs serve as site-specific background limits for each constituent. Parametric tolerance limits are calculated, with a target of 95% confidence and 95% coverage, when data follow a normal or transformed-normal distribution, such as for combined radium 226 + 228. When data contained greater than 50% non-detects or did not follow a normal or transformed-normal distribution, non-parametric tolerance limits were constructed using the highest background measurement. The confidence and coverage levels for nonparametric tolerance limits are dependent upon the number of background samples.

Groundwater Protection Standards

The background limits were then used when determining the groundwater protection standard (GWPS) under 40 CFR §257.95(h) and Georgia EPD Rule 391-3-4-.10(6)(a). On July 30, 2018, US EPA revised the Federal CCR rule updating GWPS for cobalt, lead, lithium, and molybdenum as described above in 40 CFR §257.95(h)(2). Effective on February 22, 2022, Georgia EPD incorporated the updated GWPS into the current Georgia EPD Rules for Solid Waste Management 391-3-4-.10(6)(a). In accordance with the updated Rules, the GWPS is:

- The maximum contaminant level (MCL) established under §141.62 and §141.66 of this title
- Where an MCL has not been established for a constituent, Federal and State CCR Rules specify levels for cobalt (0.006 mg/L), lead (0.015 mg/L), lithium (0.040 mg/L), and molybdenum (0.100 mg/L)
- The respective background level for a constituent when the background level is higher than the MCL or Federal CCR Rule identified GWPS

Following Georgia EPD Rule requirements and the Federal CCR requirements, GWPS were established for statistical comparison of Appendix II and IV constituents for this sample event (Figure I).

Confidence Intervals

To complete the statistical comparison of current sampling data to GWPS, confidence intervals were constructed using Sanitas software using data from 2016 through the present for each of the Appendix II and IV constituents in each downgradient well (Figure J). As mentioned above, any well/constituent pairs containing 100% non-detects since 2016 were not required for statistical analyses. The confidence intervals were then compared to the GWPS as described above. Only when the entire confidence interval is above a GWPS is the downgradient well/constituent pair considered to exceed its respective standard. If there is an exceedance of the GWPS, a statistically significant level (SSL) exceedance is identified.

During previous analyses, a significant increase in concentrations was identified among the most recent observations when compared to historic records for arsenic at well GWC-15 and molybdenum at well GWB-4R; therefore, confidence intervals using observations from August 2020 onward for these well/constituent pairs were constructed on stable, non-trending data (USEPA Unified Guidance, 2009, Chapter 7). Similarly, during this analysis, a significant increase in concentrations was identified for cobalt at well GWB-6R. Therefore, this well/constituent pair will use, at a minimum, the most recent 8 observations for construction of a confidence interval.

A summary of the confidence intervals follows this letter and exceedances were identified for the following well/constituent pairs:

- Arsenic: GWC-15, GWC-16, and GWC-20
- Molybdenum: GWB-4R, GWC-16, and GWC-20

Trend Tests – Appendix II & IV Exceedances

All data since 2016 at wells with confidence interval exceedances are further evaluated using the Sen's Slope/Mann Kendall trend test at the 95% confidence level to determine whether concentrations are statistically increasing, decreasing, or stable (Figure K). Although the trend tests for Assessment monitoring pairs were previously evaluated using 99% confidence, the 95% confidence level more rapidly identifies statistically significant trends. Additionally, the 95% confidence level is recommended in cases with limited sample sizes and, particularly, for new assessment wells. Upgradient wells are included in

the trend analyses to identify whether similar patterns exist upgradient of the site for the same constituents. When trends are present in upgradient wells, it is an indication of variability in groundwater quality unrelated to practices at the site. A summary of the Appendix IV trend test results follows this letter. Statistically significant trends were identified for the following well/constituent pairs:

Increasing trends:

- Arsenic: GWC-15 and GWC-16
- Molybdenum: GWB-4R

Decreasing trends:

- Arsenic: GWA-7 (upgradient)

SUMMARY

Based on the statistical analyses described in this letter, the following statistical exceedances were noted:

Prediction Limits (Detection Monitoring Parameters)

Georgia EPD Appendix I:

- Arsenic: GWC-15, GWC-16, and GWC-20
- Barium: GWC-21

CCR Appendix III:

- Boron: GWC-16
- Calcium: GWB-4R, GWB-6R, GWC-1, GWC-11, GWC-12, GWC-14, GWC-15, GWC-16, GWC-17, GWC-20, and GWC-21
- Chloride: GWC-17
- Fluoride: GWC-17
- pH (lower limit): GWC-12
- pH (upper limit): GWC-15
- Sulfate: GWB-4R, GWB-5R, GWB-6R, GWC-11, GWC-12, GWC-16, GWC-17, GWC-20, and GWC-21

The Sen's Slope/Mann-Kendall trend test was used to identify statistically significant trends for any Appendix I and Appendix III well/constituent pairs initially found to exceed their respective prediction limit. The following statistically significant trends were identified:

Increasing:

- Arsenic: GWC-15
- Boron: GWA-8 (upgradient) and GWC-16
- Calcium: GWB-4R, GWB-6R, GWC-1, GWC-11, GWC-16, and GWC-21
- pH: GWA-8 (upgradient)
- Sulfate: GWB-4R, GWB-6R, GWC-11, GWC-16, and GWC-21

Decreasing:

- Arsenic: GWA-7 and GWA-8 (both upgradient)
- Barium: GWA-8 (upgradient)
- Boron: GWA-7 (upgradient)
- Calcium: GWA-7 (upgradient)
- Chloride: GWA-7 (upgradient)
- Sulfate: GWA-7, GWA-8 (both upgradient), and GWC-12

Confidence Intervals (Assessment Monitoring Parameters)

Georgia EPD Appendix II and CCR Appendix IV:

- Arsenic: GWC-15, GWC-16, and GWC-20
- Molybdenum: GWB-4R, GWC-16, and GWC-20

The Sen's Slope/Mann-Kendall trend test was used to identify statistically significant trends for any confidence interval initially found to exceed their respective GWPS entirely. The following statistically significant trends were identified:

Increasing trends:

- Arsenic: GWC-15 and GWC-16
- Molybdenum: GWB-4R

Decreasing trends:

- Arsenic: GWA-7 (upgradient)

Thank you for the opportunity to assist you in the statistical analysis of groundwater quality for Plant Kraft's Grumman Road Landfill. If you have any questions or comments, please feel free to contact us.

For Groundwater Stats Consulting,

Abdul Diane
Groundwater Analyst

Andrew T. Collins
Project Manager

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Summary Tables

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100% Non-Detects: Appendix II & IV Downgradient & Assessment

Antimony (mg/L)
GWC-14, GWC-16, MW-23D, MW-24D, MW-25D, MW-26D

Arsenic (mg/L)
MW-23D, MW-24D

Beryllium (mg/L)
GWC-1, GWC-15, GWC-20, GWC-21, MW-23D, MW-24D

Cadmium (mg/L)
GWB-5R, GWB-6R, GWC-12, GWC-13, GWC-15, GWC-16, GWC-17, GWC-2, GWC-21, GWC-9, MW-24D

Chromium (mg/L)
MW-23D

Cobalt (mg/L)
GWC-1, GWC-13, GWC-15, GWC-16, GWC-20, GWC-21, MW-23D, MW-24D, MW-25D, MW-26D

Fluoride (mg/L)
GWC-11

Lithium (mg/L)
GWB-6R, GWC-1, GWC-11, GWC-14, GWC-15, GWC-16, GWC-2, GWC-20, GWC-21, GWC-22, MW-23D, MW-24D, MW-25D, MW-26D

Molybdenum (mg/L)
GWC-9, MW-26D

Selenium (mg/L)
GWC-13, GWC-9, MW-23D, MW-24D, MW-25D, MW-26D

Thallium (mg/L)
GWB-6R, GWC-13, GWC-15, GWC-20, GWC-9, MW-23D, MW-24D, MW-25D, MW-26D

Vanadium (mg/L)
MW-23D, MW-26D

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Date Ranges

Date: 10/11/2024 12:29 PM

Grumman Road Landfill Client: Southern Company Data: Grumman Road Landfill

Arsenic (mg/L)
- GWC-15 overall:8/18/2020-8/21/2024

Cobalt (mg/L)
- GWB-6R overall:3/10/2021-8/20/2024

Molybdenum (mg/L)
- GWB-4R overall:8/19/2020-8/20/2024

Appendix I Interwell Prediction Limits - Significant Results

Grumman Road Landfill Client: Southern Company Data: Grumman Road Landfill Printed 12/13/2024, 1:28 PM

Constituent	Well	Upper Lim.	Lower Lim.	Date	Observ.	Sig.	Bg N	Bg Mean	Std. Dev.	%NDs	ND Adj.	Transform	Alpha	Method
Arsenic (mg/L)	**GWC-15**	**0.0287**	**n/a**	**8/21/2024**	**0.183**	**Yes**	**135**	**n/a**	**n/a**	**74.81**	**n/a**	**n/a**	**0.0001079**	**NP Inter (NDs) 1 of 2**
Arsenic (mg/L)	**GWC-16**	**0.0287**	**n/a**	**8/21/2024**	**0.131**	**Yes**	**135**	**n/a**	**n/a**	**74.81**	**n/a**	**n/a**	**0.0001079**	**NP Inter (NDs) 1 of 2**
Arsenic (mg/L)	**GWC-20**	**0.0287**	**n/a**	**8/21/2024**	**0.423**	**Yes**	**135**	**n/a**	**n/a**	**74.81**	**n/a**	**n/a**	**0.0001079**	**NP Inter (NDs) 1 of 2**
Barium (mg/L)	**GWC-21**	**0.236**	**n/a**	**8/22/2024**	**0.291**	**Yes**	**133**	**n/a**	**n/a**	**0**	**n/a**	**n/a**	**0.0001114**	**NP Inter (normality) 1 of 2**

Appendix I Interwell Prediction Limits - All Results

Grumman Road Landfill Client: Southern Company Data: Grumman Road Landfill Printed 12/13/2024, 1:28 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)	GWB-4R	0.003	n/a	8/20/2024	0.003ND	No	135	n/a	n/a	95.56	n/a	n/a	0.0001079	NP Inter (NDs) 1 of 2
Antimony (mg/L)	GWB-5R	0.003	n/a	8/21/2024	0.003ND	No	135	n/a	n/a	95.56	n/a	n/a	0.0001079	NP Inter (NDs) 1 of 2
Antimony (mg/L)	GWB-6R	0.003	n/a	8/20/2024	0.003ND	No	135	n/a	n/a	95.56	n/a	n/a	0.0001079	NP Inter (NDs) 1 of 2
Antimony (mg/L)	GWC-1	0.003	n/a	8/20/2024	0.003ND	No	135	n/a	n/a	95.56	n/a	n/a	0.0001079	NP Inter (NDs) 1 of 2
Antimony (mg/L)	GWC-11	0.003	n/a	8/21/2024	0.003ND	No	135	n/a	n/a	95.56	n/a	n/a	0.0001079	NP Inter (NDs) 1 of 2
Antimony (mg/L)	GWC-12	0.003	n/a	8/21/2024	0.003ND	No	135	n/a	n/a	95.56	n/a	n/a	0.0001079	NP Inter (NDs) 1 of 2
Antimony (mg/L)	GWC-13	0.003	n/a	8/21/2024	0.003ND	No	135	n/a	n/a	95.56	n/a	n/a	0.0001079	NP Inter (NDs) 1 of 2
Antimony (mg/L)	GWC-14	0.003	n/a	8/21/2024	0.003ND	No	135	n/a	n/a	95.56	n/a	n/a	0.0001079	NP Inter (NDs) 1 of 2
Antimony (mg/L)	GWC-15	0.003	n/a	8/21/2024	0.003ND	No	135	n/a	n/a	95.56	n/a	n/a	0.0001079	NP Inter (NDs) 1 of 2
Antimony (mg/L)	GWC-16	0.003	n/a	8/21/2024	0.003ND	No	135	n/a	n/a	95.56	n/a	n/a	0.0001079	NP Inter (NDs) 1 of 2
Antimony (mg/L)	GWC-17	0.003	n/a	8/21/2024	0.003ND	No	135	n/a	n/a	95.56	n/a	n/a	0.0001079	NP Inter (NDs) 1 of 2
Antimony (mg/L)	GWC-2	0.003	n/a	8/21/2024	0.003ND	No	135	n/a	n/a	95.56	n/a	n/a	0.0001079	NP Inter (NDs) 1 of 2
Antimony (mg/L)	GWC-20	0.003	n/a	8/21/2024	0.003ND	No	135	n/a	n/a	95.56	n/a	n/a	0.0001079	NP Inter (NDs) 1 of 2
Antimony (mg/L)	GWC-21	0.003	n/a	8/22/2024	0.003ND	No	135	n/a	n/a	95.56	n/a	n/a	0.0001079	NP Inter (NDs) 1 of 2
Antimony (mg/L)	GWC-22	0.003	n/a	8/21/2024	0.003ND	No	135	n/a	n/a	95.56	n/a	n/a	0.0001079	NP Inter (NDs) 1 of 2
Antimony (mg/L)	GWC-9	0.003	n/a	8/21/2024	0.003ND	No	135	n/a	n/a	95.56	n/a	n/a	0.0001079	NP Inter (NDs) 1 of 2
Arsenic (mg/L)	GWB-4R	0.0287	n/a	8/20/2024	0.00377J	No	135	n/a	n/a	74.81	n/a	n/a	0.0001079	NP Inter (NDs) 1 of 2
Arsenic (mg/L)	GWB-5R	0.0287	n/a	8/21/2024	0.00237J	No	135	n/a	n/a	74.81	n/a	n/a	0.0001079	NP Inter (NDs) 1 of 2
Arsenic (mg/L)	GWB-6R	0.0287	n/a	8/20/2024	0.0056	No	135	n/a	n/a	74.81	n/a	n/a	0.0001079	NP Inter (NDs) 1 of 2
Arsenic (mg/L)	GWC-1	0.0287	n/a	8/20/2024	0.0131	No	135	n/a	n/a	74.81	n/a	n/a	0.0001079	NP Inter (NDs) 1 of 2
Arsenic (mg/L)	GWC-11	0.0287	n/a	8/21/2024	0.005ND	No	135	n/a	n/a	74.81	n/a	n/a	0.0001079	NP Inter (NDs) 1 of 2
Arsenic (mg/L)	GWC-12	0.0287	n/a	8/21/2024	0.005ND	No	135	n/a	n/a	74.81	n/a	n/a	0.0001079	NP Inter (NDs) 1 of 2
Arsenic (mg/L)	GWC-13	0.0287	n/a	8/21/2024	0.005ND	No	135	n/a	n/a	74.81	n/a	n/a	0.0001079	NP Inter (NDs) 1 of 2
Arsenic (mg/L)	GWC-14	0.0287	n/a	8/21/2024	0.005ND	No	135	n/a	n/a	74.81	n/a	n/a	0.0001079	NP Inter (NDs) 1 of 2
Arsenic (mg/L)	**GWC-15**	**0.0287**	**n/a**	**8/21/2024**	**0.183**	**Yes**	**135**	**n/a**	**n/a**	**74.81**	**n/a**	**n/a**	**0.0001079**	**NP Inter (NDs) 1 of 2**
Arsenic (mg/L)	**GWC-16**	**0.0287**	**n/a**	**8/21/2024**	**0.131**	**Yes**	**135**	**n/a**	**n/a**	**74.81**	**n/a**	**n/a**	**0.0001079**	**NP Inter (NDs) 1 of 2**
Arsenic (mg/L)	GWC-17	0.0287	n/a	8/21/2024	0.005ND	No	135	n/a	n/a	74.81	n/a	n/a	0.0001079	NP Inter (NDs) 1 of 2
Arsenic (mg/L)	GWC-2	0.0287	n/a	8/21/2024	0.005ND	No	135	n/a	n/a	74.81	n/a	n/a	0.0001079	NP Inter (NDs) 1 of 2
Arsenic (mg/L)	**GWC-20**	**0.0287**	**n/a**	**8/21/2024**	**0.423**	**Yes**	**135**	**n/a**	**n/a**	**74.81**	**n/a**	**n/a**	**0.0001079**	**NP Inter (NDs) 1 of 2**
Arsenic (mg/L)	GWC-21	0.0287	n/a	8/22/2024	0.00929	No	135	n/a	n/a	74.81	n/a	n/a	0.0001079	NP Inter (NDs) 1 of 2
Arsenic (mg/L)	GWC-22	0.0287	n/a	8/21/2024	0.005ND	No	135	n/a	n/a	74.81	n/a	n/a	0.0001079	NP Inter (NDs) 1 of 2
Arsenic (mg/L)	GWC-9	0.0287	n/a	8/21/2024	0.005ND	No	135	n/a	n/a	74.81	n/a	n/a	0.0001079	NP Inter (NDs) 1 of 2
Barium (mg/L)	GWB-4R	0.236	n/a	8/20/2024	0.214	No	133	n/a	n/a	0	n/a	n/a	0.0001114	NP Inter (normality) 1 of 2
Barium (mg/L)	GWB-5R	0.236	n/a	8/21/2024	0.0921	No	133	n/a	n/a	0	n/a	n/a	0.0001114	NP Inter (normality) 1 of 2
Barium (mg/L)	GWB-6R	0.236	n/a	8/20/2024	0.028	No	133	n/a	n/a	0	n/a	n/a	0.0001114	NP Inter (normality) 1 of 2
Barium (mg/L)	GWC-1	0.236	n/a	8/20/2024	0.0452	No	133	n/a	n/a	0	n/a	n/a	0.0001114	NP Inter (normality) 1 of 2
Barium (mg/L)	GWC-11	0.236	n/a	8/21/2024	0.126	No	133	n/a	n/a	0	n/a	n/a	0.0001114	NP Inter (normality) 1 of 2
Barium (mg/L)	GWC-12	0.236	n/a	8/21/2024	0.0236	No	133	n/a	n/a	0	n/a	n/a	0.0001114	NP Inter (normality) 1 of 2
Barium (mg/L)	GWC-13	0.236	n/a	8/21/2024	0.0526	No	133	n/a	n/a	0	n/a	n/a	0.0001114	NP Inter (normality) 1 of 2
Barium (mg/L)	GWC-14	0.236	n/a	8/21/2024	0.0355	No	133	n/a	n/a	0	n/a	n/a	0.0001114	NP Inter (normality) 1 of 2
Barium (mg/L)	GWC-15	0.236	n/a	8/21/2024	0.0541	No	133	n/a	n/a	0	n/a	n/a	0.0001114	NP Inter (normality) 1 of 2
Barium (mg/L)	GWC-16	0.236	n/a	8/21/2024	0.111	No	133	n/a	n/a	0	n/a	n/a	0.0001114	NP Inter (normality) 1 of 2
Barium (mg/L)	GWC-17	0.236	n/a	8/21/2024	0.0254	No	133	n/a	n/a	0	n/a	n/a	0.0001114	NP Inter (normality) 1 of 2
Barium (mg/L)	GWC-2	0.236	n/a	8/21/2024	0.0506	No	133	n/a	n/a	0	n/a	n/a	0.0001114	NP Inter (normality) 1 of 2
Barium (mg/L)	GWC-20	0.236	n/a	8/21/2024	0.226	No	133	n/a	n/a	0	n/a	n/a	0.0001114	NP Inter (normality) 1 of 2
Barium (mg/L)	**GWC-21**	**0.236**	**n/a**	**8/22/2024**	**0.291**	**Yes**	**133**	**n/a**	**n/a**	**0**	**n/a**	**n/a**	**0.0001114**	**NP Inter (normality) 1 of 2**
Barium (mg/L)	GWC-22	0.236	n/a	8/21/2024	0.0362	No	133	n/a	n/a	0	n/a	n/a	0.0001114	NP Inter (normality) 1 of 2
Barium (mg/L)	GWC-9	0.236	n/a	8/21/2024	0.149	No	133	n/a	n/a	0	n/a	n/a	0.0001114	NP Inter (normality) 1 of 2
Chromium (mg/L)	GWB-4R	0.068	n/a	8/20/2024	0.00544J	No	134	n/a	n/a	61.94	n/a	n/a	0.0001096	NP Inter (NDs) 1 of 2
Chromium (mg/L)	GWB-5R	0.068	n/a	8/21/2024	0.00542J	No	134	n/a	n/a	61.94	n/a	n/a	0.0001096	NP Inter (NDs) 1 of 2
Chromium (mg/L)	GWB-6R	0.068	n/a	8/20/2024	0.00339J	No	134	n/a	n/a	61.94	n/a	n/a	0.0001096	NP Inter (NDs) 1 of 2
Chromium (mg/L)	GWC-1	0.068	n/a	8/20/2024	0.01ND	No	134	n/a	n/a	61.94	n/a	n/a	0.0001096	NP Inter (NDs) 1 of 2
Chromium (mg/L)	GWC-11	0.068	n/a	8/21/2024	0.01ND	No	134	n/a	n/a	61.94	n/a	n/a	0.0001096	NP Inter (NDs) 1 of 2
Chromium (mg/L)	GWC-12	0.068	n/a	8/21/2024	0.01ND	No	134	n/a	n/a	61.94	n/a	n/a	0.0001096	NP Inter (NDs) 1 of 2
Chromium (mg/L)	GWC-13	0.068	n/a	8/21/2024	0.01ND	No	134	n/a	n/a	61.94	n/a	n/a	0.0001096	NP Inter (NDs) 1 of 2
Chromium (mg/L)	GWC-14	0.068	n/a	8/21/2024	0.01ND	No	134	n/a	n/a	61.94	n/a	n/a	0.0001096	NP Inter (NDs) 1 of 2
Chromium (mg/L)	GWC-15	0.068	n/a	8/21/2024	0.01ND	No	134	n/a	n/a	61.94	n/a	n/a	0.0001096	NP Inter (NDs) 1 of 2
Chromium (mg/L)	GWC-16	0.068	n/a	8/21/2024	0.01ND	No	134	n/a	n/a	61.94	n/a	n/a	0.0001096	NP Inter (NDs) 1 of 2
Chromium (mg/L)	GWC-17	0.068	n/a	8/21/2024	0.01ND	No	134	n/a	n/a	61.94	n/a	n/a	0.0001096	NP Inter (NDs) 1 of 2
Chromium (mg/L)	GWC-2	0.068	n/a	8/21/2024	0.01ND	No	134	n/a	n/a	61.94	n/a	n/a	0.0001096	NP Inter (NDs) 1 of 2
Chromium (mg/L)	GWC-20	0.068	n/a	8/21/2024	0.01ND	No	134	n/a	n/a	61.94	n/a	n/a	0.0001096	NP Inter (NDs) 1 of 2
Chromium (mg/L)	GWC-21	0.068	n/a	8/22/2024	0.01ND	No	134	n/a	n/a	61.94	n/a	n/a	0.0001096	NP Inter (NDs) 1 of 2
Chromium (mg/L)	GWC-22	0.068	n/a	8/21/2024	0.01ND	No	134	n/a	n/a	61.94	n/a	n/a	0.0001096	NP Inter (NDs) 1 of 2
Chromium (mg/L)	GWC-9	0.068	n/a	8/21/2024	0.01ND	No	134	n/a	n/a	61.94	n/a	n/a	0.0001096	NP Inter (NDs) 1 of 2

Appendix I Interwell Prediction Limits - All Results

Grumman Road Landfill Client: Southern Company Data: Grumman Road Landfill Printed 12/13/2024, 1:28 PM

Constituent	Well	Upper Lim.	Lower Lim.	Date	Observ.	Sig.	Bg N	Bg Mean	Std. Dev.	%NDs	ND Adj.	Transform	Alpha	Method
Lead (mg/L)	GWB-4R	0.013	n/a	8/20/2024	0.002ND	No	131	n/a	n/a	72.52	n/a	n/a	0.0001149	NP Inter (NDs) 1 of 2
Lead (mg/L)	GWB-5R	0.013	n/a	8/21/2024	0.000522J	No	131	n/a	n/a	72.52	n/a	n/a	0.0001149	NP Inter (NDs) 1 of 2
Lead (mg/L)	GWB-6R	0.013	n/a	8/20/2024	0.002ND	No	131	n/a	n/a	72.52	n/a	n/a	0.0001149	NP Inter (NDs) 1 of 2
Lead (mg/L)	GWC-1	0.013	n/a	8/20/2024	0.002ND	No	131	n/a	n/a	72.52	n/a	n/a	0.0001149	NP Inter (NDs) 1 of 2
Lead (mg/L)	GWC-11	0.013	n/a	8/21/2024	0.002ND	No	131	n/a	n/a	72.52	n/a	n/a	0.0001149	NP Inter (NDs) 1 of 2
Lead (mg/L)	GWC-12	0.013	n/a	8/21/2024	0.002ND	No	131	n/a	n/a	72.52	n/a	n/a	0.0001149	NP Inter (NDs) 1 of 2
Lead (mg/L)	GWC-13	0.013	n/a	8/21/2024	0.002ND	No	131	n/a	n/a	72.52	n/a	n/a	0.0001149	NP Inter (NDs) 1 of 2
Lead (mg/L)	GWC-14	0.013	n/a	8/21/2024	0.002ND	No	131	n/a	n/a	72.52	n/a	n/a	0.0001149	NP Inter (NDs) 1 of 2
Lead (mg/L)	GWC-15	0.013	n/a	8/21/2024	0.002ND	No	131	n/a	n/a	72.52	n/a	n/a	0.0001149	NP Inter (NDs) 1 of 2
Lead (mg/L)	GWC-16	0.013	n/a	8/21/2024	0.002ND	No	131	n/a	n/a	72.52	n/a	n/a	0.0001149	NP Inter (NDs) 1 of 2
Lead (mg/L)	GWC-17	0.013	n/a	8/21/2024	0.002ND	No	131	n/a	n/a	72.52	n/a	n/a	0.0001149	NP Inter (NDs) 1 of 2
Lead (mg/L)	GWC-2	0.013	n/a	8/21/2024	0.002ND	No	131	n/a	n/a	72.52	n/a	n/a	0.0001149	NP Inter (NDs) 1 of 2
Lead (mg/L)	GWC-20	0.013	n/a	8/21/2024	0.002ND	No	131	n/a	n/a	72.52	n/a	n/a	0.0001149	NP Inter (NDs) 1 of 2
Lead (mg/L)	GWC-21	0.013	n/a	8/22/2024	0.002ND	No	131	n/a	n/a	72.52	n/a	n/a	0.0001149	NP Inter (NDs) 1 of 2
Lead (mg/L)	GWC-22	0.013	n/a	8/21/2024	0.002ND	No	131	n/a	n/a	72.52	n/a	n/a	0.0001149	NP Inter (NDs) 1 of 2
Lead (mg/L)	GWC-9	0.013	n/a	8/21/2024	0.002ND	No	131	n/a	n/a	72.52	n/a	n/a	0.0001149	NP Inter (NDs) 1 of 2
Selenium (mg/L)	GWB-4R	0.0438	n/a	8/20/2024	0.00381J	No	135	n/a	n/a	81.48	n/a	n/a	0.0001079	NP Inter (NDs) 1 of 2
Selenium (mg/L)	GWB-5R	0.0438	n/a	8/21/2024	0.00214J	No	135	n/a	n/a	81.48	n/a	n/a	0.0001079	NP Inter (NDs) 1 of 2
Selenium (mg/L)	GWB-6R	0.0438	n/a	8/20/2024	0.00254J	No	135	n/a	n/a	81.48	n/a	n/a	0.0001079	NP Inter (NDs) 1 of 2
Selenium (mg/L)	GWC-1	0.0438	n/a	8/20/2024	0.00155J	No	135	n/a	n/a	81.48	n/a	n/a	0.0001079	NP Inter (NDs) 1 of 2
Selenium (mg/L)	GWC-11	0.0438	n/a	8/21/2024	0.00627	No	135	n/a	n/a	81.48	n/a	n/a	0.0001079	NP Inter (NDs) 1 of 2
Selenium (mg/L)	GWC-12	0.0438	n/a	8/21/2024	0.005ND	No	135	n/a	n/a	81.48	n/a	n/a	0.0001079	NP Inter (NDs) 1 of 2
Selenium (mg/L)	GWC-13	0.0438	n/a	8/21/2024	0.005ND	No	135	n/a	n/a	81.48	n/a	n/a	0.0001079	NP Inter (NDs) 1 of 2
Selenium (mg/L)	GWC-14	0.0438	n/a	8/21/2024	0.00337J	No	135	n/a	n/a	81.48	n/a	n/a	0.0001079	NP Inter (NDs) 1 of 2
Selenium (mg/L)	GWC-15	0.0438	n/a	8/21/2024	0.00314J	No	135	n/a	n/a	81.48	n/a	n/a	0.0001079	NP Inter (NDs) 1 of 2
Selenium (mg/L)	GWC-16	0.0438	n/a	8/21/2024	0.00313J	No	135	n/a	n/a	81.48	n/a	n/a	0.0001079	NP Inter (NDs) 1 of 2
Selenium (mg/L)	GWC-17	0.0438	n/a	8/21/2024	0.005ND	No	135	n/a	n/a	81.48	n/a	n/a	0.0001079	NP Inter (NDs) 1 of 2
Selenium (mg/L)	GWC-2	0.0438	n/a	8/21/2024	0.005ND	No	135	n/a	n/a	81.48	n/a	n/a	0.0001079	NP Inter (NDs) 1 of 2
Selenium (mg/L)	GWC-20	0.0438	n/a	8/21/2024	0.00209J	No	135	n/a	n/a	81.48	n/a	n/a	0.0001079	NP Inter (NDs) 1 of 2
Selenium (mg/L)	GWC-21	0.0438	n/a	8/22/2024	0.00594	No	135	n/a	n/a	81.48	n/a	n/a	0.0001079	NP Inter (NDs) 1 of 2
Selenium (mg/L)	GWC-22	0.0438	n/a	8/21/2024	0.005ND	No	135	n/a	n/a	81.48	n/a	n/a	0.0001079	NP Inter (NDs) 1 of 2
Selenium (mg/L)	GWC-9	0.0438	n/a	8/21/2024	0.005ND	No	135	n/a	n/a	81.48	n/a	n/a	0.0001079	NP Inter (NDs) 1 of 2
Vanadium (mg/L)	GWB-4R	0.24	n/a	8/20/2024	0.0189J	No	123	n/a	n/a	62.6	n/a	n/a	0.0001289	NP Inter (NDs) 1 of 2
Vanadium (mg/L)	GWB-5R	0.24	n/a	8/21/2024	0.0209	No	123	n/a	n/a	62.6	n/a	n/a	0.0001289	NP Inter (NDs) 1 of 2
Vanadium (mg/L)	GWB-6R	0.24	n/a	8/20/2024	0.0155J	No	123	n/a	n/a	62.6	n/a	n/a	0.0001289	NP Inter (NDs) 1 of 2
Vanadium (mg/L)	GWC-1	0.24	n/a	8/20/2024	0.02ND	No	123	n/a	n/a	62.6	n/a	n/a	0.0001289	NP Inter (NDs) 1 of 2
Vanadium (mg/L)	GWC-11	0.24	n/a	8/21/2024	0.00332J	No	123	n/a	n/a	62.6	n/a	n/a	0.0001289	NP Inter (NDs) 1 of 2
Vanadium (mg/L)	GWC-12	0.24	n/a	8/21/2024	0.00869J	No	123	n/a	n/a	62.6	n/a	n/a	0.0001289	NP Inter (NDs) 1 of 2
Vanadium (mg/L)	GWC-13	0.24	n/a	8/21/2024	0.02ND	No	123	n/a	n/a	62.6	n/a	n/a	0.0001289	NP Inter (NDs) 1 of 2
Vanadium (mg/L)	GWC-14	0.24	n/a	8/21/2024	0.0038J	No	123	n/a	n/a	62.6	n/a	n/a	0.0001289	NP Inter (NDs) 1 of 2
Vanadium (mg/L)	GWC-15	0.24	n/a	8/21/2024	0.00338J	No	123	n/a	n/a	62.6	n/a	n/a	0.0001289	NP Inter (NDs) 1 of 2
Vanadium (mg/L)	GWC-16	0.24	n/a	8/21/2024	0.00407J	No	123	n/a	n/a	62.6	n/a	n/a	0.0001289	NP Inter (NDs) 1 of 2
Vanadium (mg/L)	GWC-17	0.24	n/a	8/21/2024	0.02ND	No	123	n/a	n/a	62.6	n/a	n/a	0.0001289	NP Inter (NDs) 1 of 2
Vanadium (mg/L)	GWC-2	0.24	n/a	8/21/2024	0.02ND	No	123	n/a	n/a	62.6	n/a	n/a	0.0001289	NP Inter (NDs) 1 of 2
Vanadium (mg/L)	GWC-20	0.24	n/a	8/21/2024	0.00558J	No	123	n/a	n/a	62.6	n/a	n/a	0.0001289	NP Inter (NDs) 1 of 2
Vanadium (mg/L)	GWC-21	0.24	n/a	8/22/2024	0.00457J	No	123	n/a	n/a	62.6	n/a	n/a	0.0001289	NP Inter (NDs) 1 of 2
Vanadium (mg/L)	GWC-22	0.24	n/a	8/21/2024	0.02ND	No	123	n/a	n/a	62.6	n/a	n/a	0.0001289	NP Inter (NDs) 1 of 2
Vanadium (mg/L)	GWC-9	0.24	n/a	8/21/2024	0.02ND	No	123	n/a	n/a	62.6	n/a	n/a	0.0001289	NP Inter (NDs) 1 of 2
Zinc (mg/L)	GWB-4R	0.16	n/a	8/20/2024	0.00972J	No	127	n/a	n/a	29.13	n/a	n/a	0.0001219	NP Inter (normality) 1 of 2
Zinc (mg/L)	GWB-5R	0.16	n/a	8/21/2024	0.02ND	No	127	n/a	n/a	29.13	n/a	n/a	0.0001219	NP Inter (normality) 1 of 2
Zinc (mg/L)	GWB-6R	0.16	n/a	8/20/2024	0.0355	No	127	n/a	n/a	29.13	n/a	n/a	0.0001219	NP Inter (normality) 1 of 2
Zinc (mg/L)	GWC-1	0.16	n/a	8/20/2024	0.00917J	No	127	n/a	n/a	29.13	n/a	n/a	0.0001219	NP Inter (normality) 1 of 2
Zinc (mg/L)	GWC-11	0.16	n/a	8/21/2024	0.0392	No	127	n/a	n/a	29.13	n/a	n/a	0.0001219	NP Inter (normality) 1 of 2
Zinc (mg/L)	GWC-12	0.16	n/a	8/21/2024	0.00744J	No	127	n/a	n/a	29.13	n/a	n/a	0.0001219	NP Inter (normality) 1 of 2
Zinc (mg/L)	GWC-13	0.16	n/a	8/21/2024	0.0168J	No	127	n/a	n/a	29.13	n/a	n/a	0.0001219	NP Inter (normality) 1 of 2
Zinc (mg/L)	GWC-14	0.16	n/a	8/21/2024	0.02ND	No	127	n/a	n/a	29.13	n/a	n/a	0.0001219	NP Inter (normality) 1 of 2
Zinc (mg/L)	GWC-15	0.16	n/a	8/21/2024	0.02ND	No	127	n/a	n/a	29.13	n/a	n/a	0.0001219	NP Inter (normality) 1 of 2
Zinc (mg/L)	GWC-16	0.16	n/a	8/21/2024	0.02ND	No	127	n/a	n/a	29.13	n/a	n/a	0.0001219	NP Inter (normality) 1 of 2
Zinc (mg/L)	GWC-17	0.16	n/a	8/21/2024	0.0066J	No	127	n/a	n/a	29.13	n/a	n/a	0.0001219	NP Inter (normality) 1 of 2
Zinc (mg/L)	GWC-2	0.16	n/a	8/21/2024	0.02ND	No	127	n/a	n/a	29.13	n/a	n/a	0.0001219	NP Inter (normality) 1 of 2
Zinc (mg/L)	GWC-20	0.16	n/a	8/21/2024	0.02ND	No	127	n/a	n/a	29.13	n/a	n/a	0.0001219	NP Inter (normality) 1 of 2
Zinc (mg/L)	GWC-21	0.16	n/a	8/22/2024	0.02ND	No	127	n/a	n/a	29.13	n/a	n/a	0.0001219	NP Inter (normality) 1 of 2
Zinc (mg/L)	GWC-22	0.16	n/a	8/21/2024	0.0141J	No	127	n/a	n/a	29.13	n/a	n/a	0.0001219	NP Inter (normality) 1 of 2
Zinc (mg/L)	GWC-9	0.16	n/a	8/21/2024	0.0137J	No	127	n/a	n/a	29.13	n/a	n/a	0.0001219	NP Inter (normality) 1 of 2

Appendix I - Trend Test Summary - Significant Results

Grumman Road Landfill Client: Southern Company Data: Grumman Road Landfill Printed 12/13/2024, 1:33 PM

Constituent	Well	Slope	Calc.	Critical	Sig.	N	%NDs	Normality	Alpha	Method
Arsenic (mg/L)	**GWA-7 (bg)**	**-0.0007447**	**-5.037**	**-2.58**	**Yes**	**57**	**52.63**	**n/a**	**0.01**	**NP**
Arsenic (mg/L)	**GWA-8 (bg)**	**0**	**-2.863**	**-2.58**	**Yes**	**78**	**91.03**	**n/a**	**0.01**	**NP**
Arsenic (mg/L)	**GWC-15**	**0.007445**	**8.685**	**2.58**	**Yes**	**58**	**43.1**	**n/a**	**0.01**	**NP**
Barium (mg/L)	**GWA-8 (bg)**	**-0.002734**	**-9.431**	**-2.58**	**Yes**	**77**	**0**	**n/a**	**0.01**	**NP**

Appendix I - Trend Test Summary - All Results

Grumman Road Landfill Client: Southern Company Data: Grumman Road Landfill Printed 12/13/2024, 1:33 PM

Constituent	Well	Slope	Calc.	Critical	Sig.	N	%NDs	Normality	Alpha	Method
Arsenic (mg/L)	**GWA-7 (bg)**	**-0.0007447**	**-5.037**	**-2.58**	**Yes**	**57**	**52.63**	**n/a**	**0.01**	**NP**
Arsenic (mg/L)	**GWA-8 (bg)**	**0**	**-2.863**	**-2.58**	**Yes**	**78**	**91.03**	**n/a**	**0.01**	**NP**
Arsenic (mg/L)	**GWC-15**	**0.007445**	**8.685**	**2.58**	**Yes**	**58**	**43.1**	**n/a**	**0.01**	**NP**
Arsenic (mg/L)	GWC-16	-0.0003815	-0.9241	-2.58	No	77	0	n/a	0.01	NP
Arsenic (mg/L)	GWC-20	0.01224	180	199	No	37	2.703	n/a	0.01	NP
Barium (mg/L)	GWA-7 (bg)	0.000747	1.005	2.58	No	56	0	n/a	0.01	NP
Barium (mg/L)	**GWA-8 (bg)**	**-0.002734**	**-9.431**	**-2.58**	**Yes**	**77**	**0**	**n/a**	**0.01**	**NP**
Barium (mg/L)	GWC-21	0.004041	75	191	No	36	0	n/a	0.01	NP

Appendix III Interwell Prediction Limits - Significant Results

Grumman Road Landfill Client: Southern Company Data: Grumman Road Landfill Printed 12/13/2024, 1:37 PM

Constituent	Well	Upper Lim.	Lower Lim.	Date	Observ.	Sig.	Bg N	Bg Mean	Std. Dev.	%NDs	ND Adj.	Transform	Alpha	Method
Boron (mg/L)	GWC-16	21.8	n/a	8/21/2024	22.6	Yes	42	n/a	n/a	0	n/a	n/a	0.001006	NP Inter (normality) 1 of 2
Calcium (mg/L)	GWB-4R	35.8	n/a	8/20/2024	188	Yes	42	n/a	n/a	0	n/a	n/a	0.001006	NP Inter (normality) 1 of 2
Calcium (mg/L)	GWB-6R	35.8	n/a	8/20/2024	99.1	Yes	42	n/a	n/a	0	n/a	n/a	0.001006	NP Inter (normality) 1 of 2
Calcium (mg/L)	GWC-1	35.8	n/a	8/20/2024	37.8	Yes	42	n/a	n/a	0	n/a	n/a	0.001006	NP Inter (normality) 1 of 2
Calcium (mg/L)	GWC-11	35.8	n/a	8/21/2024	102	Yes	42	n/a	n/a	0	n/a	n/a	0.001006	NP Inter (normality) 1 of 2
Calcium (mg/L)	GWC-12	35.8	n/a	8/21/2024	79.6	Yes	42	n/a	n/a	0	n/a	n/a	0.001006	NP Inter (normality) 1 of 2
Calcium (mg/L)	GWC-14	35.8	n/a	8/21/2024	49.5	Yes	42	n/a	n/a	0	n/a	n/a	0.001006	NP Inter (normality) 1 of 2
Calcium (mg/L)	GWC-15	35.8	n/a	8/21/2024	135	Yes	42	n/a	n/a	0	n/a	n/a	0.001006	NP Inter (normality) 1 of 2
Calcium (mg/L)	GWC-16	35.8	n/a	8/21/2024	232	Yes	42	n/a	n/a	0	n/a	n/a	0.001006	NP Inter (normality) 1 of 2
Calcium (mg/L)	GWC-17	35.8	n/a	8/21/2024	78.9	Yes	42	n/a	n/a	0	n/a	n/a	0.001006	NP Inter (normality) 1 of 2
Calcium (mg/L)	GWC-20	35.8	n/a	8/21/2024	169	Yes	42	n/a	n/a	0	n/a	n/a	0.001006	NP Inter (normality) 1 of 2
Calcium (mg/L)	GWC-21	35.8	n/a	8/22/2024	85	Yes	42	n/a	n/a	0	n/a	n/a	0.001006	NP Inter (normality) 1 of 2
Chloride (mg/L)	GWC-17	260	n/a	8/21/2024	479	Yes	42	n/a	n/a	0	n/a	n/a	0.001006	NP Inter (normality) 1 of 2
Fluoride (mg/L)	GWC-17	0.49	n/a	8/21/2024	0.642	Yes	46	n/a	n/a	21.74	n/a	n/a	0.0008612	NP Inter (normality) 1 of 2
pH (SU)	GWC-12	6.43	4.23	8/21/2024	4.09	Yes	44	n/a	n/a	0	n/a	n/a	0.001867	NP Inter (normality) 1 of 2
pH (SU)	GWC-15	6.43	4.23	8/21/2024	6.69	Yes	44	n/a	n/a	0	n/a	n/a	0.001867	NP Inter (normality) 1 of 2
Sulfate (mg/L)	GWB-4R	160	n/a	8/20/2024	772	Yes	42	n/a	n/a	0	n/a	n/a	0.001006	NP Inter (normality) 1 of 2
Sulfate (mg/L)	GWB-5R	160	n/a	8/21/2024	289	Yes	42	n/a	n/a	0	n/a	n/a	0.001006	NP Inter (normality) 1 of 2
Sulfate (mg/L)	GWB-6R	160	n/a	8/20/2024	734	Yes	42	n/a	n/a	0	n/a	n/a	0.001006	NP Inter (normality) 1 of 2
Sulfate (mg/L)	GWC-11	160	n/a	8/21/2024	404	Yes	42	n/a	n/a	0	n/a	n/a	0.001006	NP Inter (normality) 1 of 2
Sulfate (mg/L)	GWC-12	160	n/a	8/21/2024	602	Yes	42	n/a	n/a	0	n/a	n/a	0.001006	NP Inter (normality) 1 of 2
Sulfate (mg/L)	GWC-16	160	n/a	8/21/2024	1370	Yes	42	n/a	n/a	0	n/a	n/a	0.001006	NP Inter (normality) 1 of 2
Sulfate (mg/L)	GWC-17	160	n/a	8/21/2024	453	Yes	42	n/a	n/a	0	n/a	n/a	0.001006	NP Inter (normality) 1 of 2
Sulfate (mg/L)	GWC-20	160	n/a	8/21/2024	688	Yes	42	n/a	n/a	0	n/a	n/a	0.001006	NP Inter (normality) 1 of 2
Sulfate (mg/L)	GWC-21	160	n/a	8/22/2024	291	Yes	42	n/a	n/a	0	n/a	n/a	0.001006	NP Inter (normality) 1 of 2

Appendix III Interwell Prediction Limits - All Results

Grumman Road Landfill Client: Southern Company Data: Grumman Road Landfill Printed 12/13/2024, 1:37 PM

Constituent	Well	Upper Lim.	Lower Lim.	Date	Observ.	Sig.	Bg N	Bg Mean	Std. Dev.	%NDs	ND Adj.	Transform	Alpha	Method
Boron (mg/L)	GWB-4R	21.8	n/a	8/20/2024	6.51	No	42	n/a	n/a	0	n/a	n/a	0.001006	NP Inter (normality) 1 of 2
Boron (mg/L)	GWB-5R	21.8	n/a	8/21/2024	5.38	No	42	n/a	n/a	0	n/a	n/a	0.001006	NP Inter (normality) 1 of 2
Boron (mg/L)	GWB-6R	21.8	n/a	8/20/2024	6.7	No	42	n/a	n/a	0	n/a	n/a	0.001006	NP Inter (normality) 1 of 2
Boron (mg/L)	GWC-1	21.8	n/a	8/20/2024	0.854	No	42	n/a	n/a	0	n/a	n/a	0.001006	NP Inter (normality) 1 of 2
Boron (mg/L)	GWC-11	21.8	n/a	8/21/2024	0.668	No	42	n/a	n/a	0	n/a	n/a	0.001006	NP Inter (normality) 1 of 2
Boron (mg/L)	GWC-12	21.8	n/a	8/21/2024	9.95	No	42	n/a	n/a	0	n/a	n/a	0.001006	NP Inter (normality) 1 of 2
Boron (mg/L)	GWC-13	21.8	n/a	8/21/2024	0.233	No	42	n/a	n/a	0	n/a	n/a	0.001006	NP Inter (normality) 1 of 2
Boron (mg/L)	GWC-14	21.8	n/a	8/21/2024	0.0675	No	42	n/a	n/a	0	n/a	n/a	0.001006	NP Inter (normality) 1 of 2
Boron (mg/L)	GWC-15	21.8	n/a	8/21/2024	0.785	No	42	n/a	n/a	0	n/a	n/a	0.001006	NP Inter (normality) 1 of 2
Boron (mg/L)	**GWC-16**	**21.8**	**n/a**	**8/21/2024**	**22.6**	**Yes**	**42**	**n/a**	**n/a**	**0**	**n/a**	**n/a**	**0.001006**	**NP Inter (normality) 1 of 2**
Boron (mg/L)	GWC-17	21.8	n/a	8/21/2024	1.66	No	42	n/a	n/a	0	n/a	n/a	0.001006	NP Inter (normality) 1 of 2
Boron (mg/L)	GWC-2	21.8	n/a	8/21/2024	0.023	No	42	n/a	n/a	0	n/a	n/a	0.001006	NP Inter (normality) 1 of 2
Boron (mg/L)	GWC-20	21.8	n/a	8/21/2024	10.1	No	42	n/a	n/a	0	n/a	n/a	0.001006	NP Inter (normality) 1 of 2
Boron (mg/L)	GWC-21	21.8	n/a	8/22/2024	2.98	No	42	n/a	n/a	0	n/a	n/a	0.001006	NP Inter (normality) 1 of 2
Boron (mg/L)	GWC-22	21.8	n/a	8/21/2024	0.179	No	42	n/a	n/a	0	n/a	n/a	0.001006	NP Inter (normality) 1 of 2
Boron (mg/L)	GWC-9	21.8	n/a	8/21/2024	0.0193	No	42	n/a	n/a	0	n/a	n/a	0.001006	NP Inter (normality) 1 of 2
Calcium (mg/L)	**GWB-4R**	**35.8**	**n/a**	**8/20/2024**	**188**	**Yes**	**42**	**n/a**	**n/a**	**0**	**n/a**	**n/a**	**0.001006**	**NP Inter (normality) 1 of 2**
Calcium (mg/L)	GWB-5R	35.8	n/a	8/21/2024	30	No	42	n/a	n/a	0	n/a	n/a	0.001006	NP Inter (normality) 1 of 2
Calcium (mg/L)	**GWB-6R**	**35.8**	**n/a**	**8/20/2024**	**99.1**	**Yes**	**42**	**n/a**	**n/a**	**0**	**n/a**	**n/a**	**0.001006**	**NP Inter (normality) 1 of 2**
Calcium (mg/L)	**GWC-1**	**35.8**	**n/a**	**8/20/2024**	**37.8**	**Yes**	**42**	**n/a**	**n/a**	**0**	**n/a**	**n/a**	**0.001006**	**NP Inter (normality) 1 of 2**
Calcium (mg/L)	**GWC-11**	**35.8**	**n/a**	**8/21/2024**	**102**	**Yes**	**42**	**n/a**	**n/a**	**0**	**n/a**	**n/a**	**0.001006**	**NP Inter (normality) 1 of 2**
Calcium (mg/L)	**GWC-12**	**35.8**	**n/a**	**8/21/2024**	**79.6**	**Yes**	**42**	**n/a**	**n/a**	**0**	**n/a**	**n/a**	**0.001006**	**NP Inter (normality) 1 of 2**
Calcium (mg/L)	GWC-13	35.8	n/a	8/21/2024	5.23	No	42	n/a	n/a	0	n/a	n/a	0.001006	NP Inter (normality) 1 of 2
Calcium (mg/L)	**GWC-14**	**35.8**	**n/a**	**8/21/2024**	**49.5**	**Yes**	**42**	**n/a**	**n/a**	**0**	**n/a**	**n/a**	**0.001006**	**NP Inter (normality) 1 of 2**
Calcium (mg/L)	**GWC-15**	**35.8**	**n/a**	**8/21/2024**	**135**	**Yes**	**42**	**n/a**	**n/a**	**0**	**n/a**	**n/a**	**0.001006**	**NP Inter (normality) 1 of 2**
Calcium (mg/L)	**GWC-16**	**35.8**	**n/a**	**8/21/2024**	**232**	**Yes**	**42**	**n/a**	**n/a**	**0**	**n/a**	**n/a**	**0.001006**	**NP Inter (normality) 1 of 2**
Calcium (mg/L)	**GWC-17**	**35.8**	**n/a**	**8/21/2024**	**78.9**	**Yes**	**42**	**n/a**	**n/a**	**0**	**n/a**	**n/a**	**0.001006**	**NP Inter (normality) 1 of 2**
Calcium (mg/L)	GWC-2	35.8	n/a	8/21/2024	0.156J	No	42	n/a	n/a	0	n/a	n/a	0.001006	NP Inter (normality) 1 of 2
Calcium (mg/L)	**GWC-20**	**35.8**	**n/a**	**8/21/2024**	**169**	**Yes**	**42**	**n/a**	**n/a**	**0**	**n/a**	**n/a**	**0.001006**	**NP Inter (normality) 1 of 2**
Calcium (mg/L)	**GWC-21**	**35.8**	**n/a**	**8/22/2024**	**85**	**Yes**	**42**	**n/a**	**n/a**	**0**	**n/a**	**n/a**	**0.001006**	**NP Inter (normality) 1 of 2**
Calcium (mg/L)	GWC-22	35.8	n/a	8/21/2024	13.3	No	42	n/a	n/a	0	n/a	n/a	0.001006	NP Inter (normality) 1 of 2
Calcium (mg/L)	GWC-9	35.8	n/a	8/21/2024	4.68	No	42	n/a	n/a	0	n/a	n/a	0.001006	NP Inter (normality) 1 of 2
Chloride (mg/L)	GWB-4R	260	n/a	8/20/2024	114	No	42	n/a	n/a	0	n/a	n/a	0.001006	NP Inter (normality) 1 of 2
Chloride (mg/L)	GWB-5R	260	n/a	8/21/2024	138	No	42	n/a	n/a	0	n/a	n/a	0.001006	NP Inter (normality) 1 of 2
Chloride (mg/L)	GWB-6R	260	n/a	8/20/2024	53	No	42	n/a	n/a	0	n/a	n/a	0.001006	NP Inter (normality) 1 of 2
Chloride (mg/L)	GWC-1	260	n/a	8/20/2024	8.85	No	42	n/a	n/a	0	n/a	n/a	0.001006	NP Inter (normality) 1 of 2
Chloride (mg/L)	GWC-11	260	n/a	8/21/2024	48.9	No	42	n/a	n/a	0	n/a	n/a	0.001006	NP Inter (normality) 1 of 2
Chloride (mg/L)	GWC-12	260	n/a	8/21/2024	117	No	42	n/a	n/a	0	n/a	n/a	0.001006	NP Inter (normality) 1 of 2
Chloride (mg/L)	GWC-13	260	n/a	8/21/2024	6.83	No	42	n/a	n/a	0	n/a	n/a	0.001006	NP Inter (normality) 1 of 2
Chloride (mg/L)	GWC-14	260	n/a	8/21/2024	24.3	No	42	n/a	n/a	0	n/a	n/a	0.001006	NP Inter (normality) 1 of 2
Chloride (mg/L)	GWC-15	260	n/a	8/21/2024	5.49	No	42	n/a	n/a	0	n/a	n/a	0.001006	NP Inter (normality) 1 of 2
Chloride (mg/L)	GWC-16	260	n/a	8/21/2024	34.8	No	42	n/a	n/a	0	n/a	n/a	0.001006	NP Inter (normality) 1 of 2
Chloride (mg/L)	**GWC-17**	**260**	**n/a**	**8/21/2024**	**479**	**Yes**	**42**	**n/a**	**n/a**	**0**	**n/a**	**n/a**	**0.001006**	**NP Inter (normality) 1 of 2**
Chloride (mg/L)	GWC-2	260	n/a	8/21/2024	5.61	No	42	n/a	n/a	0	n/a	n/a	0.001006	NP Inter (normality) 1 of 2
Chloride (mg/L)	GWC-20	260	n/a	8/21/2024	13.1	No	42	n/a	n/a	0	n/a	n/a	0.001006	NP Inter (normality) 1 of 2
Chloride (mg/L)	GWC-21	260	n/a	8/22/2024	15.8	No	42	n/a	n/a	0	n/a	n/a	0.001006	NP Inter (normality) 1 of 2
Chloride (mg/L)	GWC-22	260	n/a	8/21/2024	10.5	No	42	n/a	n/a	0	n/a	n/a	0.001006	NP Inter (normality) 1 of 2
Chloride (mg/L)	GWC-9	260	n/a	8/21/2024	24	No	42	n/a	n/a	0	n/a	n/a	0.001006	NP Inter (normality) 1 of 2
Fluoride (mg/L)	GWB-4R	0.49	n/a	8/20/2024	0.1ND	No	46	n/a	n/a	21.74	n/a	n/a	0.0008612	NP Inter (normality) 1 of 2
Fluoride (mg/L)	GWB-5R	0.49	n/a	8/21/2024	0.0435J	No	46	n/a	n/a	21.74	n/a	n/a	0.0008612	NP Inter (normality) 1 of 2
Fluoride (mg/L)	GWB-6R	0.49	n/a	8/20/2024	0.0768J	No	46	n/a	n/a	21.74	n/a	n/a	0.0008612	NP Inter (normality) 1 of 2
Fluoride (mg/L)	GWC-1	0.49	n/a	8/20/2024	0.1ND	No	46	n/a	n/a	21.74	n/a	n/a	0.0008612	NP Inter (normality) 1 of 2
Fluoride (mg/L)	GWC-11	0.49	n/a	8/21/2024	0.1ND	No	46	n/a	n/a	21.74	n/a	n/a	0.0008612	NP Inter (normality) 1 of 2
Fluoride (mg/L)	GWC-12	0.49	n/a	8/21/2024	0.194	No	46	n/a	n/a	21.74	n/a	n/a	0.0008612	NP Inter (normality) 1 of 2
Fluoride (mg/L)	GWC-13	0.49	n/a	8/21/2024	0.0496J	No	46	n/a	n/a	21.74	n/a	n/a	0.0008612	NP Inter (normality) 1 of 2
Fluoride (mg/L)	GWC-14	0.49	n/a	8/21/2024	0.1ND	No	46	n/a	n/a	21.74	n/a	n/a	0.0008612	NP Inter (normality) 1 of 2

Appendix III Interwell Prediction Limits - All Results

Grumman Road Landfill Client: Southern Company Data: Grumman Road Landfill Printed 12/13/2024, 1:37 PM

Constituent	Well	Upper Lim.	Lower Lim.	Date	Observ.	Sig.	Bg N	Bg Mean	Std. Dev.	%NDs	ND Adj.	Transform	Alpha	Method
Fluoride (mg/L)	GWC-15	0.49	n/a	8/21/2024	0.1ND	No	46	n/a	n/a	21.74	n/a	n/a	0.0008612	NP Inter (normality) 1 of 2
Fluoride (mg/L)	GWC-16	0.49	n/a	8/21/2024	0.1ND	No	46	n/a	n/a	21.74	n/a	n/a	0.0008612	NP Inter (normality) 1 of 2
Fluoride (mg/L)	**GWC-17**	**0.49**	**n/a**	**8/21/2024**	**0.642**	**Yes**	**46**	**n/a**	**n/a**	**21.74**	**n/a**	**n/a**	**0.0008612**	**NP Inter (normality) 1 of 2**
Fluoride (mg/L)	GWC-2	0.49	n/a	8/21/2024	0.0532J	No	46	n/a	n/a	21.74	n/a	n/a	0.0008612	NP Inter (normality) 1 of 2
Fluoride (mg/L)	GWC-20	0.49	n/a	8/21/2024	0.168	No	46	n/a	n/a	21.74	n/a	n/a	0.0008612	NP Inter (normality) 1 of 2
Fluoride (mg/L)	GWC-21	0.49	n/a	8/22/2024	0.1ND	No	46	n/a	n/a	21.74	n/a	n/a	0.0008612	NP Inter (normality) 1 of 2
Fluoride (mg/L)	GWC-22	0.49	n/a	8/21/2024	0.1ND	No	46	n/a	n/a	21.74	n/a	n/a	0.0008612	NP Inter (normality) 1 of 2
Fluoride (mg/L)	GWC-9	0.49	n/a	8/21/2024	0.134	No	46	n/a	n/a	21.74	n/a	n/a	0.0008612	NP Inter (normality) 1 of 2
pH (SU)	GWB-4R	6.43	4.23	8/20/2024	6.28	No	44	n/a	n/a	0	n/a	n/a	0.001867	NP Inter (normality) 1 of 2
pH (SU)	GWB-5R	6.43	4.23	8/21/2024	6	No	44	n/a	n/a	0	n/a	n/a	0.001867	NP Inter (normality) 1 of 2
pH (SU)	GWB-6R	6.43	4.23	8/20/2024	5.62	No	44	n/a	n/a	0	n/a	n/a	0.001867	NP Inter (normality) 1 of 2
pH (SU)	GWC-1	6.43	4.23	8/20/2024	5.83	No	44	n/a	n/a	0	n/a	n/a	0.001867	NP Inter (normality) 1 of 2
pH (SU)	GWC-11	6.43	4.23	8/21/2024	5.02	No	44	n/a	n/a	0	n/a	n/a	0.001867	NP Inter (normality) 1 of 2
pH (SU)	**GWC-12**	**6.43**	**4.23**	**8/21/2024**	**4.09**	**Yes**	**44**	**n/a**	**n/a**	**0**	**n/a**	**n/a**	**0.001867**	**NP Inter (normality) 1 of 2**
pH (SU)	GWC-13	6.43	4.23	8/21/2024	4.73	No	44	n/a	n/a	0	n/a	n/a	0.001867	NP Inter (normality) 1 of 2
pH (SU)	GWC-14	6.43	4.23	8/21/2024	5.75	No	44	n/a	n/a	0	n/a	n/a	0.001867	NP Inter (normality) 1 of 2
pH (SU)	**GWC-15**	**6.43**	**4.23**	**8/21/2024**	**6.69**	**Yes**	**44**	**n/a**	**n/a**	**0**	**n/a**	**n/a**	**0.001867**	**NP Inter (normality) 1 of 2**
pH (SU)	GWC-16	6.43	4.23	8/21/2024	5.53	No	44	n/a	n/a	0	n/a	n/a	0.001867	NP Inter (normality) 1 of 2
pH (SU)	GWC-17	6.43	4.23	8/21/2024	4.47	No	44	n/a	n/a	0	n/a	n/a	0.001867	NP Inter (normality) 1 of 2
pH (SU)	GWC-2	6.43	4.23	8/21/2024	4.76	No	44	n/a	n/a	0	n/a	n/a	0.001867	NP Inter (normality) 1 of 2
pH (SU)	GWC-20	6.43	4.23	8/21/2024	6.03	No	44	n/a	n/a	0	n/a	n/a	0.001867	NP Inter (normality) 1 of 2
pH (SU)	GWC-21	6.43	4.23	8/22/2024	5.54	No	44	n/a	n/a	0	n/a	n/a	0.001867	NP Inter (normality) 1 of 2
pH (SU)	GWC-22	6.43	4.23	8/21/2024	4.81	No	44	n/a	n/a	0	n/a	n/a	0.001867	NP Inter (normality) 1 of 2
pH (SU)	GWC-9	6.43	4.23	8/21/2024	4.64	No	44	n/a	n/a	0	n/a	n/a	0.001867	NP Inter (normality) 1 of 2
Sulfate (mg/L)	**GWB-4R**	**160**	**n/a**	**8/20/2024**	**772**	**Yes**	**42**	**n/a**	**n/a**	**0**	**n/a**	**n/a**	**0.001006**	**NP Inter (normality) 1 of 2**
Sulfate (mg/L)	**GWB-5R**	**160**	**n/a**	**8/21/2024**	**289**	**Yes**	**42**	**n/a**	**n/a**	**0**	**n/a**	**n/a**	**0.001006**	**NP Inter (normality) 1 of 2**
Sulfate (mg/L)	**GWB-6R**	**160**	**n/a**	**8/20/2024**	**734**	**Yes**	**42**	**n/a**	**n/a**	**0**	**n/a**	**n/a**	**0.001006**	**NP Inter (normality) 1 of 2**
Sulfate (mg/L)	GWC-1	160	n/a	8/20/2024	54	No	42	n/a	n/a	0	n/a	n/a	0.001006	NP Inter (normality) 1 of 2
Sulfate (mg/L)	**GWC-11**	**160**	**n/a**	**8/21/2024**	**404**	**Yes**	**42**	**n/a**	**n/a**	**0**	**n/a**	**n/a**	**0.001006**	**NP Inter (normality) 1 of 2**
Sulfate (mg/L)	**GWC-12**	**160**	**n/a**	**8/21/2024**	**602**	**Yes**	**42**	**n/a**	**n/a**	**0**	**n/a**	**n/a**	**0.001006**	**NP Inter (normality) 1 of 2**
Sulfate (mg/L)	GWC-13	160	n/a	8/21/2024	44.4	No	42	n/a	n/a	0	n/a	n/a	0.001006	NP Inter (normality) 1 of 2
Sulfate (mg/L)	GWC-14	160	n/a	8/21/2024	71.5	No	42	n/a	n/a	0	n/a	n/a	0.001006	NP Inter (normality) 1 of 2
Sulfate (mg/L)	GWC-15	160	n/a	8/21/2024	34.2	No	42	n/a	n/a	0	n/a	n/a	0.001006	NP Inter (normality) 1 of 2
Sulfate (mg/L)	**GWC-16**	**160**	**n/a**	**8/21/2024**	**1370**	**Yes**	**42**	**n/a**	**n/a**	**0**	**n/a**	**n/a**	**0.001006**	**NP Inter (normality) 1 of 2**
Sulfate (mg/L)	**GWC-17**	**160**	**n/a**	**8/21/2024**	**453**	**Yes**	**42**	**n/a**	**n/a**	**0**	**n/a**	**n/a**	**0.001006**	**NP Inter (normality) 1 of 2**
Sulfate (mg/L)	GWC-2	160	n/a	8/21/2024	11.6	No	42	n/a	n/a	0	n/a	n/a	0.001006	NP Inter (normality) 1 of 2
Sulfate (mg/L)	**GWC-20**	**160**	**n/a**	**8/21/2024**	**688**	**Yes**	**42**	**n/a**	**n/a**	**0**	**n/a**	**n/a**	**0.001006**	**NP Inter (normality) 1 of 2**
Sulfate (mg/L)	**GWC-21**	**160**	**n/a**	**8/22/2024**	**291**	**Yes**	**42**	**n/a**	**n/a**	**0**	**n/a**	**n/a**	**0.001006**	**NP Inter (normality) 1 of 2**
Sulfate (mg/L)	GWC-22	160	n/a	8/21/2024	41.8	No	42	n/a	n/a	0	n/a	n/a	0.001006	NP Inter (normality) 1 of 2
Sulfate (mg/L)	GWC-9	160	n/a	8/21/2024	24.1	No	42	n/a	n/a	0	n/a	n/a	0.001006	NP Inter (normality) 1 of 2
Total Dissolved Solids (mg/L)	GWB-4R	2640	n/a	8/20/2024	1970	No	37	n/a	n/a	0	n/a	n/a	0.001253	NP Inter (normality) 1 of 2
Total Dissolved Solids (mg/L)	GWB-5R	2640	n/a	8/21/2024	1160	No	37	n/a	n/a	0	n/a	n/a	0.001253	NP Inter (normality) 1 of 2
Total Dissolved Solids (mg/L)	GWB-6R	2640	n/a	8/20/2024	1190	No	37	n/a	n/a	0	n/a	n/a	0.001253	NP Inter (normality) 1 of 2
Total Dissolved Solids (mg/L)	GWC-1	2640	n/a	8/20/2024	217	No	37	n/a	n/a	0	n/a	n/a	0.001253	NP Inter (normality) 1 of 2
Total Dissolved Solids (mg/L)	GWC-11	2640	n/a	8/21/2024	510	No	37	n/a	n/a	0	n/a	n/a	0.001253	NP Inter (normality) 1 of 2
Total Dissolved Solids (mg/L)	GWC-12	2640	n/a	8/21/2024	817	No	37	n/a	n/a	0	n/a	n/a	0.001253	NP Inter (normality) 1 of 2
Total Dissolved Solids (mg/L)	GWC-13	2640	n/a	8/21/2024	77	No	37	n/a	n/a	0	n/a	n/a	0.001253	NP Inter (normality) 1 of 2
Total Dissolved Solids (mg/L)	GWC-14	2640	n/a	8/21/2024	239	No	37	n/a	n/a	0	n/a	n/a	0.001253	NP Inter (normality) 1 of 2
Total Dissolved Solids (mg/L)	GWC-15	2640	n/a	8/21/2024	464	No	37	n/a	n/a	0	n/a	n/a	0.001253	NP Inter (normality) 1 of 2
Total Dissolved Solids (mg/L)	GWC-16	2640	n/a	8/21/2024	2100	No	37	n/a	n/a	0	n/a	n/a	0.001253	NP Inter (normality) 1 of 2
Total Dissolved Solids (mg/L)	GWC-17	2640	n/a	8/21/2024	1120	No	37	n/a	n/a	0	n/a	n/a	0.001253	NP Inter (normality) 1 of 2
Total Dissolved Solids (mg/L)	GWC-2	2640	n/a	8/21/2024	25	No	37	n/a	n/a	0	n/a	n/a	0.001253	NP Inter (normality) 1 of 2
Total Dissolved Solids (mg/L)	GWC-20	2640	n/a	8/21/2024	1210	No	37	n/a	n/a	0	n/a	n/a	0.001253	NP Inter (normality) 1 of 2
Total Dissolved Solids (mg/L)	GWC-21	2640	n/a	8/22/2024	517	No	37	n/a	n/a	0	n/a	n/a	0.001253	NP Inter (normality) 1 of 2
Total Dissolved Solids (mg/L)	GWC-22	2640	n/a	8/21/2024	81	No	37	n/a	n/a	0	n/a	n/a	0.001253	NP Inter (normality) 1 of 2
Total Dissolved Solids (mg/L)	GWC-9	2640	n/a	8/21/2024	90	No	37	n/a	n/a	0	n/a	n/a	0.001253	NP Inter (normality) 1 of 2

Appendix III - Trend Test Summary - Significant Results

Grumman Road Landfill Client: Southern Company Data: Grumman Road Landfill Printed 12/13/2024, 1:39 PM

Constituent	Well	Slope	Calc.	Critical	Sig.	N	%NDs	Normality	Alpha	Method
Boron (mg/L)	**GWA-7 (bg)**	**-1.604**	**-107**	**-87**	**Yes**	**21**	**0**	**n/a**	**0.01**	**NP**
Boron (mg/L)	**GWA-8 (bg)**	**0.009091**	**114**	**87**	**Yes**	**21**	**0**	**n/a**	**0.01**	**NP**
Boron (mg/L)	**GWC-16**	**2.606**	**190**	**87**	**Yes**	**21**	**0**	**n/a**	**0.01**	**NP**
Calcium (mg/L)	**GWA-7 (bg)**	**-0.4001**	**-118**	**-87**	**Yes**	**21**	**0**	**n/a**	**0.01**	**NP**
Calcium (mg/L)	**GWB-4R**	**17.67**	**148**	**87**	**Yes**	**21**	**0**	**n/a**	**0.01**	**NP**
Calcium (mg/L)	**GWB-6R**	**10.56**	**135**	**87**	**Yes**	**21**	**0**	**n/a**	**0.01**	**NP**
Calcium (mg/L)	**GWC-1**	**3.066**	**92**	**87**	**Yes**	**21**	**0**	**n/a**	**0.01**	**NP**
Calcium (mg/L)	**GWC-11**	**16.76**	**146**	**87**	**Yes**	**21**	**0**	**n/a**	**0.01**	**NP**
Calcium (mg/L)	**GWC-16**	**25.16**	**148**	**87**	**Yes**	**21**	**0**	**n/a**	**0.01**	**NP**
Calcium (mg/L)	**GWC-21**	**16.79**	**113**	**87**	**Yes**	**21**	**0**	**n/a**	**0.01**	**NP**
Chloride (mg/L)	**GWA-7 (bg)**	**-18.04**	**-131**	**-87**	**Yes**	**21**	**0**	**n/a**	**0.01**	**NP**
pH (SU)	**GWA-8 (bg)**	**0.0357**	**107**	**92**	**Yes**	**22**	**0**	**n/a**	**0.01**	**NP**
Sulfate (mg/L)	**GWA-7 (bg)**	**-3.957**	**-152**	**-87**	**Yes**	**21**	**0**	**n/a**	**0.01**	**NP**
Sulfate (mg/L)	**GWA-8 (bg)**	**-10.02**	**-128**	**-87**	**Yes**	**21**	**0**	**n/a**	**0.01**	**NP**
Sulfate (mg/L)	**GWB-4R**	**27.8**	**88**	**87**	**Yes**	**21**	**0**	**n/a**	**0.01**	**NP**
Sulfate (mg/L)	**GWB-6R**	**90.19**	**136**	**87**	**Yes**	**21**	**0**	**n/a**	**0.01**	**NP**
Sulfate (mg/L)	**GWC-11**	**90.66**	**134**	**87**	**Yes**	**21**	**0**	**n/a**	**0.01**	**NP**
Sulfate (mg/L)	**GWC-12**	**-74.79**	**-94**	**-87**	**Yes**	**21**	**0**	**n/a**	**0.01**	**NP**
Sulfate (mg/L)	**GWC-16**	**115.8**	**156**	**87**	**Yes**	**21**	**0**	**n/a**	**0.01**	**NP**
Sulfate (mg/L)	**GWC-21**	**58.5**	**107**	**87**	**Yes**	**21**	**0**	**n/a**	**0.01**	**NP**

Appendix III - Trend Test Summary - All Results

Grumman Road Landfill Client: Southern Company Data: Grumman Road Landfill Printed 12/13/2024, 1:39 PM

Constituent	Well	Slope	Calc.	Critical	Sig.	N	%NDs	Normality	Alpha	Method
Boron (mg/L)	**GWA-7 (bg)**	**-1.604**	**-107**	**-87**	**Yes**	**21**	**0**	**n/a**	**0.01**	**NP**
Boron (mg/L)	**GWA-8 (bg)**	**0.009091**	**114**	**87**	**Yes**	**21**	**0**	**n/a**	**0.01**	**NP**
Boron (mg/L)	**GWC-16**	**2.606**	**190**	**87**	**Yes**	**21**	**0**	**n/a**	**0.01**	**NP**
Calcium (mg/L)	**GWA-7 (bg)**	**-0.4001**	**-118**	**-87**	**Yes**	**21**	**0**	**n/a**	**0.01**	**NP**
Calcium (mg/L)	GWA-8 (bg)	-1.056	-69	-87	No	21	0	n/a	0.01	NP
Calcium (mg/L)	**GWB-4R**	**17.67**	**148**	**87**	**Yes**	**21**	**0**	**n/a**	**0.01**	**NP**
Calcium (mg/L)	**GWB-6R**	**10.56**	**135**	**87**	**Yes**	**21**	**0**	**n/a**	**0.01**	**NP**
Calcium (mg/L)	**GWC-1**	**3.066**	**92**	**87**	**Yes**	**21**	**0**	**n/a**	**0.01**	**NP**
Calcium (mg/L)	**GWC-11**	**16.76**	**146**	**87**	**Yes**	**21**	**0**	**n/a**	**0.01**	**NP**
Calcium (mg/L)	GWC-12	-4.055	-68	-87	No	21	0	n/a	0.01	NP
Calcium (mg/L)	GWC-14	-0.9677	-5	-87	No	21	0	n/a	0.01	NP
Calcium (mg/L)	GWC-15	1.661	44	87	No	21	0	n/a	0.01	NP
Calcium (mg/L)	**GWC-16**	**25.16**	**148**	**87**	**Yes**	**21**	**0**	**n/a**	**0.01**	**NP**
Calcium (mg/L)	GWC-17	-2.068	-28	-87	No	21	0	n/a	0.01	NP
Calcium (mg/L)	GWC-20	15.17	82	87	No	21	0	n/a	0.01	NP
Calcium (mg/L)	**GWC-21**	**16.79**	**113**	**87**	**Yes**	**21**	**0**	**n/a**	**0.01**	**NP**
Chloride (mg/L)	**GWA-7 (bg)**	**-18.04**	**-131**	**-87**	**Yes**	**21**	**0**	**n/a**	**0.01**	**NP**
Chloride (mg/L)	GWA-8 (bg)	-0.2161	-29	-87	No	21	0	n/a	0.01	NP
Chloride (mg/L)	GWC-17	-38.2	-52	-87	No	21	0	n/a	0.01	NP
Fluoride (mg/L)	GWA-7 (bg)	-0.009727	-69	-98	No	23	30.43	n/a	0.01	NP
Fluoride (mg/L)	GWA-8 (bg)	-0.008207	-80	-98	No	23	13.04	n/a	0.01	NP
Fluoride (mg/L)	GWC-17	-0.07415	-98	-98	No	23	4.348	n/a	0.01	NP
pH (SU)	GWA-7 (bg)	-0.0276	-60	-92	No	22	0	n/a	0.01	NP
pH (SU)	**GWA-8 (bg)**	**0.0357**	**107**	**92**	**Yes**	**22**	**0**	**n/a**	**0.01**	**NP**
pH (SU)	GWC-12	-0.004611	-16	-98	No	23	0	n/a	0.01	NP
pH (SU)	GWC-15	0.03619	76	92	No	22	0	n/a	0.01	NP
Sulfate (mg/L)	**GWA-7 (bg)**	**-3.957**	**-152**	**-87**	**Yes**	**21**	**0**	**n/a**	**0.01**	**NP**
Sulfate (mg/L)	**GWA-8 (bg)**	**-10.02**	**-128**	**-87**	**Yes**	**21**	**0**	**n/a**	**0.01**	**NP**
Sulfate (mg/L)	**GWB-4R**	**27.8**	**88**	**87**	**Yes**	**21**	**0**	**n/a**	**0.01**	**NP**
Sulfate (mg/L)	GWB-5R	27.25	78	87	No	21	0	n/a	0.01	NP
Sulfate (mg/L)	**GWB-6R**	**90.19**	**136**	**87**	**Yes**	**21**	**0**	**n/a**	**0.01**	**NP**
Sulfate (mg/L)	**GWC-11**	**90.66**	**134**	**87**	**Yes**	**21**	**0**	**n/a**	**0.01**	**NP**
Sulfate (mg/L)	**GWC-12**	**-74.79**	**-94**	**-87**	**Yes**	**21**	**0**	**n/a**	**0.01**	**NP**
Sulfate (mg/L)	**GWC-16**	**115.8**	**156**	**87**	**Yes**	**21**	**0**	**n/a**	**0.01**	**NP**
Sulfate (mg/L)	GWC-17	5.089	7	87	No	21	0	n/a	0.01	NP
Sulfate (mg/L)	GWC-20	56.03	60	87	No	21	0	n/a	0.01	NP
Sulfate (mg/L)	**GWC-21**	**58.5**	**107**	**87**	**Yes**	**21**	**0**	**n/a**	**0.01**	**NP**

Upper Tolerance Limits Summary Table

Grumman Road Landfill Client: Southern Company Data: Grumman Road Landfill Printed 12/13/2024, 1:43 PM

Constituent	Upper Lim.	Bg N	Bg Mean	Std. Dev.	%NDs	ND Adj.	Transform	Alpha	Method
Antimony (mg/L)	0.003	135	n/a	n/a	95.56	n/a	n/a	0.0009833	NP Inter(NDs)
Arsenic (mg/L)	0.0287	135	n/a	n/a	74.81	n/a	n/a	0.0009833	NP Inter(NDs)
Barium (mg/L)	0.236	133	n/a	n/a	0	n/a	n/a	0.00109	NP Inter(normality)
Beryllium (mg/L)	0.0017	55	n/a	n/a	56.36	n/a	n/a	0.05954	NP Inter(NDs)
Cadmium (mg/L)	0.001	53	n/a	n/a	96.23	n/a	n/a	0.06597	NP Inter(NDs)
Chromium (mg/L)	0.068	134	n/a	n/a	61.94	n/a	n/a	0.001035	NP Inter(NDs)
Cobalt (mg/L)	0.0102	53	n/a	n/a	45.28	n/a	n/a	0.06597	NP Inter(normality)
Combined Radium 226 + 228 (pCi/L)	11.27	39	1.519	0.3388	0	None	x^(1/3)	0.05	Inter
Fluoride (mg/L)	0.49	46	n/a	n/a	21.74	n/a	n/a	0.09447	NP Inter(normality)
Lead (mg/L)	0.013	131	n/a	n/a	72.52	n/a	n/a	0.001207	NP Inter(NDs)
Lithium (mg/L)	0.03	42	n/a	n/a	78.57	n/a	n/a	0.116	NP Inter(NDs)
Mercury (mg/L)	0.0002	36	n/a	n/a	86.11	n/a	n/a	0.1578	NP Inter(NDs)
Molybdenum (mg/L)	0.0098	42	n/a	n/a	80.95	n/a	n/a	0.116	NP Inter(NDs)
Selenium (mg/L)	0.0438	135	n/a	n/a	81.48	n/a	n/a	0.0009833	NP Inter(NDs)
Thallium (mg/L)	0.002	74	n/a	n/a	94.59	n/a	n/a	0.02247	NP Inter(NDs)
Vanadium (mg/L)	0.24	123	n/a	n/a	62.6	n/a	n/a	0.00182	NP Inter(NDs)
Zinc (mg/L)	0.16	127	n/a	n/a	29.13	n/a	n/a	0.001482	NP Inter(normality)

GRUMMAN ROAD LANDFILL GWPS				
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		0.029	0.029
Barium, Total (mg/L)	2		0.24	2
Beryllium, Total (mg/L)	0.004		0.0017	0.004
Cadmium, Total (mg/L)	0.005		0.001	0.005
Chromium, Total (mg/L)	0.1		0.068	0.1
Cobalt, Total (mg/L)	n/a	0.006	0.010	0.010
Combined Radium, Total (pCi/L)	5		11.27	11.27
Fluoride, Total (mg/L)	4		0.49	4
Lead, Total (mg/L)	n/a	0.015	0.013	0.015
Lithium, Total (mg/L)	n/a	0.04	0.03	0.04
Mercury, Total (mg/L)	0.002		0.0002	0.002
Molybdenum, Total (mg/L)	n/a	0.1	0.0098	0.1
Selenium, Total (mg/L)	0.05		0.044	0.05
Thallium, Total (mg/L)	0.002		0.002	0.002
Vanadium, Total (mg/L)	n/a		0.24	0.24
Zinc, Total (mg/L)	n/a		0.16	0.16

**Highlighted cells indicated Background is higher than MCLs*

**MCL = Maximum Contaminant Level*

**CCR = Coal Combustion Residuals*

**GWPS = Groundwater Protection Standard*

Confidence Intervals - Significant Results

Grumman Road Landfill Client: Southern Company Data: Grumman Road Landfill Printed 12/13/2024, 1:56 PM

Constituent	Well	Upper Lim.	Lower Lim.	Compliance	Sig.	N	Mean	Std. Dev.	%NDs	ND Adj.	Transform	Alpha	Method
Arsenic (mg/L)	**GWC-15**	**0.2622**	**0.1844**	**0.029**	**Yes**	**10**	**0.2233**	**0.04357**	**0**	**None**	**No**	**0.01**	**Param.**
Arsenic (mg/L)	**GWC-16**	**0.09317**	**0.06865**	**0.029**	**Yes**	**26**	**0.08091**	**0.02515**	**0**	**None**	**No**	**0.01**	**Param.**
Arsenic (mg/L)	**GWC-20**	**0.3761**	**0.2885**	**0.029**	**Yes**	**25**	**0.3323**	**0.08791**	**0**	**None**	**No**	**0.01**	**Param.**
Molybdenum (mg/L)	**GWB-4R**	**0.1643**	**0.1137**	**0.1**	**Yes**	**10**	**0.139**	**0.02839**	**0**	**None**	**No**	**0.01**	**Param.**
Molybdenum (mg/L)	**GWC-16**	**0.1909**	**0.1221**	**0.1**	**Yes**	**21**	**0.1565**	**0.06235**	**0**	**None**	**No**	**0.01**	**Param.**
Molybdenum (mg/L)	**GWC-20**	**0.4148**	**0.1787**	**0.1**	**Yes**	**21**	**0.2968**	**0.214**	**0**	**None**	**No**	**0.01**	**Param.**

Confidence Intervals - All Results

Grumman Road Landfill Client: Southern Company Data: Grumman Road Landfill Printed 12/13/2024, 1:56 PM

Constituent	Well	Upper Lim.	Lower Lim.	Compliance	Sig.	N	Mean	Std. Dev.	%NDs	ND Adj.	Transform	Alpha	Method
Antimony (mg/L)	GWB-4R	0.003	0.0003	0.006	No	25	0.002892	0.00054	96	None	No	0.01	NP (NDs)
Antimony (mg/L)	GWB-5R	0.003	0.0013	0.006	No	25	0.002726	0.0007732	88	None	No	0.01	NP (NDs)
Antimony (mg/L)	GWB-6R	0.003	0.00059	0.006	No	25	0.002795	0.0007102	92	None	No	0.01	NP (NDs)
Antimony (mg/L)	GWC-1	0.003	0.0016	0.006	No	25	0.00265	0.0008408	84	None	No	0.01	NP (NDs)
Antimony (mg/L)	GWC-11	0.003	0.00066	0.006	No	25	0.002042	0.001201	60	None	No	0.01	NP (NDs)
Antimony (mg/L)	GWC-12	0.003	0.0003	0.006	No	25	0.002892	0.00054	96	None	No	0.01	NP (NDs)
Antimony (mg/L)	GWC-13	0.003	0.0006	0.006	No	25	0.002904	0.00048	96	None	No	0.01	NP (NDs)
Antimony (mg/L)	GWC-15	0.003	0.0018	0.006	No	25	0.002952	0.00024	96	None	No	0.01	NP (NDs)
Antimony (mg/L)	GWC-17	0.003	0.00286	0.006	No	25	0.002804	0.0006032	84	None	No	0.01	NP (NDs)
Antimony (mg/L)	GWC-2	0.003	0.0016	0.006	No	25	0.002876	0.0004314	92	None	No	0.01	NP (NDs)
Antimony (mg/L)	GWC-20	0.003	0.0019	0.006	No	25	0.002862	0.0005106	92	None	No	0.01	NP (NDs)
Antimony (mg/L)	GWC-21	0.003	0.00033	0.006	No	25	0.002893	0.000534	96	None	No	0.01	NP (NDs)
Antimony (mg/L)	GWC-22	0.003	0.0022	0.006	No	25	0.002606	0.0008726	80	None	No	0.01	NP (NDs)
Antimony (mg/L)	GWC-9	0.003	0.0016	0.006	No	25	0.002837	0.0005925	92	None	No	0.01	NP (NDs)
Arsenic (mg/L)	GWB-4R	0.00363	0.002137	0.029	No	25	0.003024	0.00174	8	None	sqrt(x)	0.01	Param.
Arsenic (mg/L)	GWB-5R	0.002454	0.001267	0.029	No	25	0.002722	0.001823	20	Kaplan-Meier	sqrt(x)	0.01	Param.
Arsenic (mg/L)	GWB-6R	0.003985	0.001823	0.029	No	25	0.007982	0.008968	20	Kaplan-Meier	ln(x)	0.01	Param.
Arsenic (mg/L)	GWC-1	0.006268	0.002872	0.029	No	25	0.005979	0.006406	0	None	ln(x)	0.01	Param.
Arsenic (mg/L)	GWC-11	0.005	0.00254	0.029	No	25	0.004902	0.000492	96	None	No	0.01	NP (NDs)
Arsenic (mg/L)	GWC-12	0.005	0.0016	0.029	No	25	0.004356	0.001514	84	None	No	0.01	NP (NDs)
Arsenic (mg/L)	GWC-13	0.005	0.0025	0.029	No	25	0.004547	0.001291	88	None	No	0.01	NP (NDs)
Arsenic (mg/L)	GWC-14	0.002254	0.001723	0.029	No	26	0.002682	0.001253	19.23	Kaplan-Meier	ln(x)	0.01	Param.
Arsenic (mg/L)	**GWC-15**	**0.2622**	**0.1844**	**0.029**	**Yes**	**10**	**0.2233**	**0.04357**	**0**	**None**	**No**	**0.01**	**Param.**
Arsenic (mg/L)	**GWC-16**	**0.09317**	**0.06865**	**0.029**	**Yes**	**26**	**0.08091**	**0.02515**	**0**	**None**	**No**	**0.01**	**Param.**
Arsenic (mg/L)	GWC-17	0.005	0.0012	0.029	No	25	0.003197	0.001928	52	None	No	0.01	NP (NDs)
Arsenic (mg/L)	GWC-2	0.005	0.00094	0.029	No	25	0.004477	0.001447	88	None	No	0.01	NP (NDs)
Arsenic (mg/L)	**GWC-20**	**0.3761**	**0.2885**	**0.029**	**Yes**	**25**	**0.3323**	**0.08791**	**0**	**None**	**No**	**0.01**	**Param.**
Arsenic (mg/L)	GWC-21	0.00929	0.0033	0.029	No	25	0.0095	0.01022	28	None	No	0.01	NP (normality)
Arsenic (mg/L)	GWC-22	0.005	0.0017	0.029	No	25	0.003509	0.001922	60	None	No	0.01	NP (NDs)
Arsenic (mg/L)	GWC-9	0.005	0.00084	0.029	No	25	0.004834	0.000832	96	None	No	0.01	NP (NDs)
Arsenic (mg/L)	MW-25D	0.005	0.00092	0.029	No	9	0.004547	0.00136	88.89	None	No	0.002	NP (NDs)
Arsenic (mg/L)	MW-26D	0.005	0.001	0.029	No	5	0.0035	0.002062	60	None	No	0.031	NP (NDs)
Barium (mg/L)	GWB-4R	0.101	0.077	2	No	25	0.1037	0.03821	0	None	No	0.01	NP (normality)
Barium (mg/L)	GWB-5R	0.1368	0.0886	2	No	25	0.1165	0.05381	0	None	sqrt(x)	0.01	Param.
Barium (mg/L)	GWB-6R	0.105	0.0233	2	No	25	0.06041	0.04144	0	None	No	0.01	NP (normality)
Barium (mg/L)	GWC-1	0.05665	0.05093	2	No	25	0.05379	0.005741	0	None	No	0.01	Param.
Barium (mg/L)	GWC-11	0.1292	0.08376	2	No	25	0.1065	0.04558	0	None	No	0.01	Param.
Barium (mg/L)	GWC-12	0.0229	0.01831	2	No	25	0.02079	0.004778	0	None	sqrt(x)	0.01	Param.
Barium (mg/L)	GWC-13	0.03479	0.02314	2	No	25	0.03017	0.01374	0	None	x^(1/3)	0.01	Param.
Barium (mg/L)	GWC-14	0.067	0.026	2	No	26	0.04603	0.02646	0	None	No	0.01	NP (normality)
Barium (mg/L)	GWC-15	0.05127	0.04226	2	No	25	0.04676	0.009046	0	None	No	0.01	Param.
Barium (mg/L)	GWC-16	0.1583	0.09125	2	No	26	0.1248	0.06881	0	None	No	0.01	Param.
Barium (mg/L)	GWC-17	0.07845	0.04041	2	No	25	0.07085	0.05368	0	None	ln(x)	0.01	Param.
Barium (mg/L)	GWC-2	0.0529	0.049	2	No	24	0.05213	0.006923	0	None	No	0.01	NP (normality)
Barium (mg/L)	GWC-20	0.208	0.1127	2	No	25	0.1749	0.1105	0	None	x^(1/3)	0.01	Param.
Barium (mg/L)	GWC-21	0.138	0.06886	2	No	25	0.1152	0.07785	0	None	x^(1/3)	0.01	Param.
Barium (mg/L)	GWC-22	0.0881	0.0571	2	No	25	0.0726	0.0311	0	None	No	0.01	Param.
Barium (mg/L)	GWC-9	0.2316	0.1695	2	No	25	0.2006	0.06228	0	None	No	0.01	Param.
Barium (mg/L)	MW-23D	0.07945	0.06062	2	No	8	0.07004	0.008882	0	None	No	0.01	Param.
Barium (mg/L)	MW-24D	0.04046	0.0256	2	No	8	0.03294	0.007271	0	None	sqrt(x)	0.01	Param.
Barium (mg/L)	MW-25D	0.02833	0.02229	2	No	8	0.02531	0.00285	0	None	No	0.01	Param.
Barium (mg/L)	MW-26D	0.03695	0.02241	2	No	5	0.02968	0.004338	0	None	No	0.01	Param.
Beryllium (mg/L)	GWB-4R	0.0005	0.0004	0.004	No	21	0.0004	0.0001732	71.43	None	No	0.01	NP (NDs)
Beryllium (mg/L)	GWB-5R	0.0005	0.0001	0.004	No	21	0.0002925	0.00018	38.1	None	No	0.01	NP (normality)
Beryllium (mg/L)	GWB-6R	0.0005	0.00005	0.004	No	21	0.000457	0.000136	90.48	None	No	0.01	NP (NDs)

Confidence Intervals - All Results

Grumman Road Landfill Client: Southern Company Data: Grumman Road Landfill Printed 12/13/2024, 1:56 PM

Constituent	Well	Upper Lim.	Lower Lim.	Compliance	Sig.	N	Mean	Std. Dev.	%NDs	ND Adj.	Transform	Alpha	Method
Beryllium (mg/L)	GWC-11	0.0005	0.000047	0.004	No	21	0.0004784	0.00009885	95.24	None	No	0.01	NP (NDs)
Beryllium (mg/L)	GWC-12	0.0007221	0.0005262	0.004	No	21	0.0006357	0.0001968	0	None	x^(1/3)	0.01	Param.
Beryllium (mg/L)	GWC-13	0.0005	0.000058	0.004	No	21	0.000479	0.00009645	95.24	None	No	0.01	NP (NDs)
Beryllium (mg/L)	GWC-14	0.0005	0.0001	0.004	No	21	0.0004406	0.0001493	85.71	None	No	0.01	NP (NDs)
Beryllium (mg/L)	GWC-16	0.0005	0.000089	0.004	No	21	0.0003017	0.0002134	52.38	None	No	0.01	NP (NDs)
Beryllium (mg/L)	GWC-17	0.002446	0.001663	0.004	No	21	0.00211	0.0007879	0	None	x^(1/3)	0.01	Param.
Beryllium (mg/L)	GWC-2	0.0005	0.0003	0.004	No	22	0.0003944	0.0001822	72.73	None	No	0.01	NP (NDs)
Beryllium (mg/L)	GWC-22	0.0005	0.0001	0.004	No	21	0.0003731	0.0001864	66.67	None	No	0.01	NP (NDs)
Beryllium (mg/L)	GWC-9	0.0002606	0.0002104	0.004	No	21	0.0002369	0.00004606	14.29	None	sqrt(x)	0.01	Param.
Beryllium (mg/L)	MW-25D	0.0005	0.000084	0.004	No	8	0.000448	0.0001471	87.5	None	No	0.004	NP (NDs)
Beryllium (mg/L)	MW-26D	0.0005	0.000073	0.004	No	5	0.0002522	0.0002264	40	None	No	0.031	NP (normality)
Cadmium (mg/L)	GWB-4R	0.001	0.000304	0.005	No	21	0.000804	0.0003615	76.19	None	No	0.01	NP (NDs)
Cadmium (mg/L)	GWC-1	0.001	0.0001	0.005	No	21	0.0009129	0.0002753	90.48	None	No	0.01	NP (NDs)
Cadmium (mg/L)	GWC-11	0.0005775	0.0003231	0.005	No	21	0.0004503	0.0002306	9.524	None	No	0.01	Param.
Cadmium (mg/L)	GWC-14	0.001	0.0002	0.005	No	21	0.0007233	0.0004016	66.67	None	No	0.01	NP (NDs)
Cadmium (mg/L)	GWC-20	0.001	0.000823	0.005	No	21	0.000873	0.0002968	80.95	None	No	0.01	NP (NDs)
Cadmium (mg/L)	GWC-22	0.001	0.0002	0.005	No	21	0.0006214	0.0004166	52.38	None	No	0.01	NP (NDs)
Cadmium (mg/L)	MW-23D	0.001	0.00027	0.005	No	8	0.0009088	0.0002581	87.5	None	No	0.004	NP (NDs)
Cadmium (mg/L)	MW-25D	0.001	0.00019	0.005	No	8	0.0008988	0.0002864	87.5	None	No	0.004	NP (NDs)
Cadmium (mg/L)	MW-26D	0.001	0.00029	0.005	No	5	0.0007812	0.000321	60	None	No	0.031	NP (NDs)
Chromium (mg/L)	GWB-4R	0.007388	0.003653	0.1	No	25	0.005987	0.004063	4	None	sqrt(x)	0.01	Param.
Chromium (mg/L)	GWB-5R	0.004358	0.001357	0.1	No	25	0.008307	0.01398	28	Kaplan-Meier	ln(x)	0.01	Param.
Chromium (mg/L)	GWB-6R	0.005855	0.002529	0.1	No	25	0.004928	0.004605	0	None	x^(1/3)	0.01	Param.
Chromium (mg/L)	GWC-1	0.00337	0.0018	0.1	No	25	0.003795	0.003299	20	None	No	0.01	NP (normality)
Chromium (mg/L)	GWC-11	0.01	0.00094	0.1	No	25	0.005643	0.004617	48	None	No	0.01	NP (normality)
Chromium (mg/L)	GWC-12	0.01	0.001	0.1	No	25	0.004386	0.004316	36	None	No	0.01	NP (normality)
Chromium (mg/L)	GWC-13	0.01	0.0008	0.1	No	25	0.006731	0.004455	64	None	No	0.01	NP (NDs)
Chromium (mg/L)	GWC-14	0.01	0.0009	0.1	No	26	0.005795	0.004636	53.85	None	No	0.01	NP (NDs)
Chromium (mg/L)	GWC-15	0.01	0.0014	0.1	No	25	0.005248	0.004317	44	None	No	0.01	NP (normality)
Chromium (mg/L)	GWC-16	0.01	0.0011	0.1	No	26	0.005872	0.004551	50	None	No	0.01	NP (normality)
Chromium (mg/L)	GWC-17	0.01	0.00096	0.1	No	25	0.00518	0.00445	44	None	No	0.01	NP (normality)
Chromium (mg/L)	GWC-2	0.01	0.001	0.1	No	25	0.007045	0.004398	68	None	No	0.01	NP (NDs)
Chromium (mg/L)	GWC-20	0.01	0.001	0.1	No	25	0.005245	0.004397	44	None	No	0.01	NP (normality)
Chromium (mg/L)	GWC-21	0.01	0.00075	0.1	No	25	0.00629	0.00464	56	None	No	0.01	NP (NDs)
Chromium (mg/L)	GWC-22	0.01	0.00064	0.1	No	25	0.006615	0.004606	64	None	No	0.01	NP (NDs)
Chromium (mg/L)	GWC-9	0.01	0.0011	0.1	No	25	0.005468	0.004455	48	None	No	0.01	NP (normality)
Chromium (mg/L)	MW-24D	0.01	0.00069	0.1	No	8	0.008836	0.003292	87.5	None	No	0.004	NP (NDs)
Chromium (mg/L)	MW-25D	0.01	0.0016	0.1	No	8	0.00895	0.00297	87.5	None	No	0.004	NP (NDs)
Chromium (mg/L)	MW-26D	0.01	0.002	0.1	No	5	0.0084	0.003578	80	None	No	0.031	NP (NDs)
Cobalt (mg/L)	GWB-4R	0.0025	0.0008	0.01	No	21	0.002829	0.003688	9.524	None	No	0.01	NP (normality)
Cobalt (mg/L)	GWB-5R	0.003751	0.00121	0.01	No	21	0.004922	0.005005	33.33	Kaplan-Meier	x^(1/3)	0.01	Param.
Cobalt (mg/L)	GWB-6R	0.0629	0.006526	0.01	No	8	0.03471	0.02659	12.5	None	No	0.01	Param.
Cobalt (mg/L)	GWC-11	0.001	0.000646	0.01	No	21	0.0008672	0.0002391	61.9	None	No	0.01	NP (NDs)
Cobalt (mg/L)	GWC-12	0.00115	0.0007744	0.01	No	21	0.0009624	0.0003408	0	None	No	0.01	Param.
Cobalt (mg/L)	GWC-14	0.001	0.0003	0.01	No	21	0.0009667	0.0001528	95.24	None	No	0.01	NP (NDs)
Cobalt (mg/L)	GWC-17	0.004861	0.002816	0.01	No	21	0.003986	0.001976	0	None	sqrt(x)	0.01	Param.
Cobalt (mg/L)	GWC-2	0.001	0.00036	0.01	No	22	0.0008809	0.0002717	77.27	None	No	0.01	NP (NDs)
Cobalt (mg/L)	GWC-22	0.001	0.000817	0.01	No	21	0.000917	0.0001626	66.67	None	No	0.01	NP (NDs)
Cobalt (mg/L)	GWC-9	0.0017	0.00093	0.01	No	21	0.001232	0.000406	0	None	No	0.01	NP (normality)
Combined Radium 226 + 228 (pCi/L)	GWB-4R	4.705	3.042	11.27	No	21	3.873	1.507	0	None	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	GWB-5R	3.846	2.404	11.27	No	21	3.215	1.453	0	None	sqrt(x)	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	GWB-6R	5.477	3.307	11.27	No	21	4.392	1.966	0	None	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	GWC-1	2.327	1.494	11.27	No	21	1.911	0.7552	0	None	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	GWC-11	6.623	3.972	11.27	No	21	5.298	2.403	0	None	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	GWC-12	2.685	1.718	11.27	No	21	2.201	0.8764	0	None	No	0.01	Param.

Confidence Intervals - All Results

Grumman Road Landfill Client: Southern Company Data: Grumman Road Landfill Printed 12/13/2024, 1:56 PM

Constituent	Well	Upper Lim.	Lower Lim.	Compliance	Sig.	N	Mean	Std. Dev.	%NDs	ND Adj.	Transform	Alpha	Method
Combined Radium 226 + 228 (pCi/L)	GWC-13	1.727	1.011	11.27	No	21	1.369	0.6489	0	None	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	GWC-14	1.348	0.7195	11.27	No	21	1.034	0.5696	0	None	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	GWC-15	2.02	1.19	11.27	No	21	1.605	0.7521	0	None	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	GWC-16	3.057	2.015	11.27	No	21	2.536	0.9444	0	None	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	GWC-17	3.632	2.482	11.27	No	21	3.057	1.042	0	None	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	GWC-2	1.34	0.7452	11.27	No	21	1.089	0.5815	0	None	sqrt(x)	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	GWC-20	4.564	2.485	11.27	No	21	3.525	1.884	0	None	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	GWC-21	2.985	1.638	11.27	No	21	2.311	1.221	0	None	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	GWC-22	6.51	3.618	11.27	No	21	5.064	2.621	0	None	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	GWC-9	3.449	2.028	11.27	No	21	2.838	1.498	0	None	sqrt(x)	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	MW-23D	2.658	0.7616	11.27	No	8	1.71	0.8944	0	None	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	MW-24D	3.322	0.688	11.27	No	8	2.005	1.243	0	None	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	MW-25D	2.105	0.2486	11.27	No	8	1.177	0.8759	0	None	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	MW-26D	2.17	-0.03951	11.27	No	5	1.065	0.6594	0	None	No	0.01	Param.
Fluoride (mg/L)	GWB-4R	0.17	0.08	4	No	23	0.1554	0.2366	69.57	None	No	0.01	NP (NDs)
Fluoride (mg/L)	GWB-5R	0.1	0.05	4	No	23	0.085	0.03793	47.83	None	No	0.01	NP (normality)
Fluoride (mg/L)	GWB-6R	0.11	0.09	4	No	23	0.1112	0.05574	52.17	None	No	0.01	NP (NDs)
Fluoride (mg/L)	GWC-1	0.18	0.0596	4	No	23	0.1022	0.03588	78.26	None	No	0.01	NP (NDs)
Fluoride (mg/L)	GWC-12	0.5704	0.2408	4	No	23	0.4493	0.3621	4.348	None	sqrt(x)	0.01	Param.
Fluoride (mg/L)	GWC-13	0.1	0.09	4	No	23	0.1102	0.09788	73.91	None	No	0.01	NP (NDs)
Fluoride (mg/L)	GWC-14	0.13	0.1	4	No	23	0.1557	0.1152	73.91	None	No	0.01	NP (NDs)
Fluoride (mg/L)	GWC-15	0.13	0.1	4	No	23	0.1243	0.0868	78.26	None	No	0.01	NP (NDs)
Fluoride (mg/L)	GWC-16	0.11	0.1	4	No	23	0.1621	0.188	60.87	None	No	0.01	NP (NDs)
Fluoride (mg/L)	GWC-17	1.042	0.5318	4	No	23	0.8398	0.5171	4.348	None	sqrt(x)	0.01	Param.
Fluoride (mg/L)	GWC-2	0.1	0.08	4	No	23	0.1145	0.1131	60.87	None	No	0.01	NP (NDs)
Fluoride (mg/L)	GWC-20	0.14	0.043	4	No	23	0.09613	0.02949	78.26	None	No	0.01	NP (NDs)
Fluoride (mg/L)	GWC-21	0.1	0.071	4	No	23	0.09874	0.006047	95.65	None	No	0.01	NP (NDs)
Fluoride (mg/L)	GWC-22	0.12	0.1	4	No	23	0.0933	0.0218	69.57	None	No	0.01	NP (NDs)
Fluoride (mg/L)	GWC-9	0.195	0.08871	4	No	23	0.1835	0.2054	8.696	None	ln(x)	0.01	Param.
Fluoride (mg/L)	MW-23D	0.09012	0.03521	4	No	9	0.083	0.03114	44.44	Kaplan-Meier	No	0.01	Param.
Fluoride (mg/L)	MW-24D	0.147	0.037	4	No	9	0.09822	0.02773	77.78	Kaplan-Meier	No	0.002	NP (NDs)
Fluoride (mg/L)	MW-25D	0.1942	0.1	4	No	9	0.1471	0.04877	0	None	No	0.01	Param.
Fluoride (mg/L)	MW-26D	0.1	0.0444	4	No	6	0.09073	0.0227	83.33	None	No	0.0155	NP (NDs)
Lead (mg/L)	GWB-4R	0.002872	0.0007123	0.015	No	24	0.003041	0.002552	37.5	Kaplan-Meier	sqrt(x)	0.01	Param.
Lead (mg/L)	GWB-5R	0.002	0.0003	0.015	No	25	0.001286	0.0008684	48	None	No	0.01	NP (normality)
Lead (mg/L)	GWB-6R	0.002	0.0003	0.015	No	25	0.001259	0.0008754	56	None	No	0.01	NP (NDs)
Lead (mg/L)	GWC-1	0.002	0.00012	0.015	No	25	0.001695	0.0007145	84	None	No	0.01	NP (NDs)
Lead (mg/L)	GWC-11	0.002	0.00021	0.015	No	25	0.0008884	0.0008538	36	None	No	0.01	NP (normality)
Lead (mg/L)	GWC-12	0.002	0.0001	0.015	No	25	0.001156	0.001049	48	None	No	0.01	NP (normality)
Lead (mg/L)	GWC-13	0.002	0.0002	0.015	No	25	0.001183	0.000855	48	None	No	0.01	NP (normality)
Lead (mg/L)	GWC-14	0.002	0.00051	0.015	No	26	0.001723	0.0006671	84.62	None	No	0.01	NP (NDs)
Lead (mg/L)	GWC-15	0.002	0.00012	0.015	No	25	0.001261	0.0009257	60	None	No	0.01	NP (NDs)
Lead (mg/L)	GWC-16	0.002	0.00017	0.015	No	26	0.001141	0.000947	53.85	None	No	0.01	NP (NDs)
Lead (mg/L)	GWC-17	0.002	0.00019	0.015	No	25	0.001429	0.0008629	68	None	No	0.01	NP (NDs)
Lead (mg/L)	GWC-2	0.002	0.0003	0.015	No	25	0.001555	0.0008088	76	None	No	0.01	NP (NDs)
Lead (mg/L)	GWC-20	0.002	0.0002	0.015	No	25	0.001625	0.0007667	80	None	No	0.01	NP (NDs)
Lead (mg/L)	GWC-21	0.002	0.00018	0.015	No	25	0.001401	0.0008927	68	None	No	0.01	NP (NDs)
Lead (mg/L)	GWC-22	0.0007045	0.0003141	0.015	No	25	0.001031	0.000829	28	Kaplan-Meier	x^(1/3)	0.01	Param.
Lead (mg/L)	GWC-9	0.002	0.0002	0.015	No	25	0.001345	0.0008996	64	None	No	0.01	NP (NDs)
Lead (mg/L)	MW-23D	0.002	0.000057	0.015	No	8	0.001757	0.000687	87.5	None	No	0.004	NP (NDs)
Lead (mg/L)	MW-24D	0.002	0.000094	0.015	No	8	0.001762	0.0006739	87.5	None	No	0.004	NP (NDs)
Lead (mg/L)	MW-25D	0.002	0.000095	0.015	No	8	0.001762	0.0006735	87.5	None	No	0.004	NP (NDs)
Lead (mg/L)	MW-26D	0.002	0.00015	0.015	No	5	0.00163	0.0008273	80	None	No	0.031	NP (NDs)
Lithium (mg/L)	GWB-4R	0.01499	0.008432	0.04	No	21	0.01171	0.005942	0	None	No	0.01	Param.
Lithium (mg/L)	GWB-5R	0.03	0.0042	0.04	No	21	0.02127	0.01267	66.67	None	No	0.01	NP (NDs)

Confidence Intervals - All Results

Grumman Road Landfill Client: Southern Company Data: Grumman Road Landfill Printed 12/13/2024, 1:56 PM

Constituent	Well	Upper Lim.	Lower Lim.	Compliance	Sig.	N	Mean	Std. Dev.	%NDs	ND Adj.	Transform	Alpha	Method
Lithium (mg/L)	GWC-12	0.03	0.00094	0.04	No	21	0.01618	0.01485	52.38	None	No	0.01	NP (NDs)
Lithium (mg/L)	GWC-13	0.03	0.00087	0.04	No	21	0.02722	0.008777	90.48	None	No	0.01	NP (NDs)
Lithium (mg/L)	GWC-17	0.006468	0.005128	0.04	No	21	0.005798	0.001215	0	None	No	0.01	Param.
Lithium (mg/L)	GWC-9	0.0023	0.0018	0.04	No	20	0.00893	0.01248	25	None	No	0.01	NP (normality)
Mercury (mg/L)	GWB-4R	0.000487	0.0001	0.002	No	18	0.000202	0.00008228	83.33	None	No	0.01	NP (NDs)
Mercury (mg/L)	GWB-5R	0.0002	0.000135	0.002	No	19	0.0001854	0.00003569	84.21	None	No	0.01	NP (NDs)
Mercury (mg/L)	GWB-6R	0.0002	0.0001	0.002	No	18	0.0001857	0.00004269	88.89	None	No	0.01	NP (NDs)
Mercury (mg/L)	GWC-1	0.0002	0.0001	0.002	No	18	0.0001856	0.00004328	88.89	None	No	0.01	NP (NDs)
Mercury (mg/L)	GWC-11	0.0002	0.0001	0.002	No	18	0.0001944	0.00002357	94.44	None	No	0.01	NP (NDs)
Mercury (mg/L)	GWC-12	0.0002	0.0001	0.002	No	18	0.0001944	0.00002357	94.44	None	No	0.01	NP (NDs)
Mercury (mg/L)	GWC-13	0.0002	0.00013	0.002	No	18	0.0001906	0.00002796	88.89	None	No	0.01	NP (NDs)
Mercury (mg/L)	GWC-14	0.0002	0.00011	0.002	No	18	0.000195	0.00002121	94.44	None	No	0.01	NP (NDs)
Mercury (mg/L)	GWC-15	0.0002	0.0001	0.002	No	18	0.0001944	0.00002357	94.44	None	No	0.01	NP (NDs)
Mercury (mg/L)	GWC-16	0.0002	0.0001	0.002	No	18	0.0001944	0.00002357	94.44	None	No	0.01	NP (NDs)
Mercury (mg/L)	GWC-17	0.0002	0.000172	0.002	No	18	0.0001934	0.00002184	88.89	None	No	0.01	NP (NDs)
Mercury (mg/L)	GWC-2	0.0002	0.0001	0.002	No	19	0.0001947	0.00002294	94.74	None	No	0.01	NP (NDs)
Mercury (mg/L)	GWC-20	0.0002	0.00011	0.002	No	18	0.000195	0.00002121	94.44	None	No	0.01	NP (NDs)
Mercury (mg/L)	GWC-21	0.0002	0.00011	0.002	No	18	0.000195	0.00002121	94.44	None	No	0.01	NP (NDs)
Mercury (mg/L)	GWC-22	0.0002	0.0001	0.002	No	18	0.0001944	0.00002357	94.44	None	No	0.01	NP (NDs)
Mercury (mg/L)	GWC-9	0.0002	0.00011	0.002	No	18	0.0001867	0.00004015	88.89	None	No	0.01	NP (NDs)
Mercury (mg/L)	MW-23D	0.0002	0.00011	0.002	No	7	0.0001871	0.00003402	85.71	None	No	0.008	NP (NDs)
Mercury (mg/L)	MW-24D	0.0002	0.0001	0.002	No	7	0.0001857	0.0000378	85.71	None	No	0.008	NP (NDs)
Mercury (mg/L)	MW-25D	0.0002	0.0001	0.002	No	7	0.0001857	0.0000378	85.71	None	No	0.008	NP (NDs)
Mercury (mg/L)	MW-26D	0.0002	0.0001	0.002	No	4	0.000175	0.00005	75	None	No	0.0625	NP (NDs)
Molybdenum (mg/L)	**GWB-4R**	**0.1643**	**0.1137**	**0.1**	**Yes**	**10**	**0.139**	**0.02839**	**0**	**None**	**No**	**0.01**	**Param.**
Molybdenum (mg/L)	GWB-5R	0.0012	0.00069	0.1	No	21	0.001022	0.0002554	80.95	None	No	0.01	NP (NDs)
Molybdenum (mg/L)	GWB-6R	0.01	0.000729	0.1	No	21	0.005691	0.00465	52.38	None	No	0.01	NP (NDs)
Molybdenum (mg/L)	GWC-1	0.1166	0.04884	0.1	No	21	0.09046	0.06659	0	None	sqrt(x)	0.01	Param.
Molybdenum (mg/L)	GWC-11	0.01	0.00077	0.1	No	21	0.00693	0.004457	66.67	None	No	0.01	NP (NDs)
Molybdenum (mg/L)	GWC-12	0.001	0.000205	0.1	No	21	0.0009621	0.0001735	95.24	None	No	0.01	NP (NDs)
Molybdenum (mg/L)	GWC-13	0.0056	0.001	0.1	No	21	0.001219	0.001004	95.24	None	No	0.01	NP (NDs)
Molybdenum (mg/L)	GWC-14	0.01634	0.006414	0.1	No	21	0.01138	0.009	0	None	No	0.01	Param.
Molybdenum (mg/L)	GWC-15	0.104	0.08338	0.1	No	21	0.09368	0.01867	0	None	No	0.01	Param.
Molybdenum (mg/L)	**GWC-16**	**0.1909**	**0.1221**	**0.1**	**Yes**	**21**	**0.1565**	**0.06235**	**0**	**None**	**No**	**0.01**	**Param.**
Molybdenum (mg/L)	GWC-17	0.01	0.00312	0.1	No	21	0.005937	0.003378	38.1	None	No	0.01	NP (normality)
Molybdenum (mg/L)	GWC-2	0.001	0.000312	0.1	No	22	0.0009687	0.0001467	95.45	None	No	0.01	NP (NDs)
Molybdenum (mg/L)	**GWC-20**	**0.4148**	**0.1787**	**0.1**	**Yes**	**21**	**0.2968**	**0.214**	**0**	**None**	**No**	**0.01**	**Param.**
Molybdenum (mg/L)	GWC-21	0.0525	0.02341	0.1	No	21	0.03796	0.02637	0	None	No	0.01	Param.
Molybdenum (mg/L)	GWC-22	0.001	0.000334	0.1	No	21	0.0009683	0.0001453	95.24	None	No	0.01	NP (NDs)
Molybdenum (mg/L)	MW-23D	0.001	0.000408	0.1	No	9	0.0009342	0.0001973	88.89	None	No	0.002	NP (NDs)
Molybdenum (mg/L)	MW-24D	0.002703	0.0008955	0.1	No	9	0.001793	0.001008	0	None	sqrt(x)	0.01	Param.
Molybdenum (mg/L)	MW-25D	0.0015	0.000257	0.1	No	9	0.0009689	0.0003206	55.56	None	No	0.002	NP (NDs)
Selenium (mg/L)	GWB-4R	0.00385	0.002748	0.05	No	25	0.004016	0.001237	36	Kaplan-Meier	No	0.01	Param.
Selenium (mg/L)	GWB-5R	0.006	0.00485	0.05	No	25	0.00469	0.001208	72	Kaplan-Meier	No	0.01	NP (NDs)
Selenium (mg/L)	GWB-6R	0.01	0.00223	0.05	No	25	0.007928	0.009586	48	None	No	0.01	NP (normality)
Selenium (mg/L)	GWC-1	0.00252	0.0018	0.05	No	25	0.003223	0.004256	8	None	No	0.01	NP (normality)
Selenium (mg/L)	GWC-11	0.007908	0.003675	0.05	No	25	0.007503	0.005638	16	Kaplan-Meier	sqrt(x)	0.01	Param.
Selenium (mg/L)	GWC-12	0.005	0.003	0.05	No	25	0.004576	0.001008	84	None	No	0.01	NP (NDs)
Selenium (mg/L)	GWC-14	0.004285	0.003097	0.05	No	26	0.003691	0.001219	3.846	None	No	0.01	Param.
Selenium (mg/L)	GWC-15	0.0046	0.002297	0.05	No	25	0.004922	0.002726	44	Kaplan-Meier	sqrt(x)	0.01	Param.
Selenium (mg/L)	GWC-16	0.004873	0.003142	0.05	No	26	0.004008	0.001776	7.692	None	No	0.01	Param.
Selenium (mg/L)	GWC-17	0.005	0.0018	0.05	No	25	0.00384	0.001673	64	None	No	0.01	NP (NDs)
Selenium (mg/L)	GWC-2	0.005	0.0035	0.05	No	25	0.00482	0.0006595	92	None	No	0.01	NP (NDs)
Selenium (mg/L)	GWC-20	0.005	0.00209	0.05	No	25	0.003914	0.001594	64	None	No	0.01	NP (NDs)
Selenium (mg/L)	GWC-21	0.01776	0.009332	0.05	No	25	0.01355	0.00846	0	None	No	0.01	Param.

Confidence Intervals - All Results

Grumman Road Landfill Client: Southern Company Data: Grumman Road Landfill Printed 12/13/2024, 1:56 PM

Constituent	Well	Upper Lim.	Lower Lim.	Compliance	Sig.	N	Mean	Std. Dev.	%NDs	ND Adj.	Transform	Alpha	Method
Selenium (mg/L)	GWC-22	0.005	0.0023	0.05	No	25	0.004476	0.001245	84	None	No	0.01	NP (NDs)
Thallium (mg/L)	GWB-4R	0.002	0.00007	0.002	No	21	0.001816	0.0005805	90.48	None	No	0.01	NP (NDs)
Thallium (mg/L)	GWB-5R	0.002	0.00031	0.002	No	21	0.001827	0.0005479	90.48	None	No	0.01	NP (NDs)
Thallium (mg/L)	GWC-1	0.002	0.000054	0.002	No	21	0.001722	0.0006983	85.71	None	No	0.01	NP (NDs)
Thallium (mg/L)	GWC-11	0.002	0.00017	0.002	No	21	0.001291	0.0009265	61.9	None	No	0.01	NP (NDs)
Thallium (mg/L)	GWC-12	0.002	0.0002	0.002	No	21	0.001309	0.0009039	61.9	None	No	0.01	NP (NDs)
Thallium (mg/L)	GWC-14	0.002	0.00007	0.002	No	21	0.001816	0.000582	90.48	None	No	0.01	NP (NDs)
Thallium (mg/L)	GWC-16	0.002	0.00006	0.002	No	21	0.001815	0.000585	90.48	None	No	0.01	NP (NDs)
Thallium (mg/L)	GWC-17	0.002	0.0001	0.002	No	21	0.001452	0.0008875	71.43	None	No	0.01	NP (NDs)
Thallium (mg/L)	GWC-2	0.002	0.00011	0.002	No	22	0.001914	0.0004029	95.45	None	No	0.01	NP (NDs)
Thallium (mg/L)	GWC-21	0.002	0.00005	0.002	No	21	0.001907	0.0004255	95.24	None	No	0.01	NP (NDs)
Thallium (mg/L)	GWC-22	0.002	0.00017	0.002	No	21	0.001547	0.0008311	76.19	None	No	0.01	NP (NDs)
Vanadium (mg/L)	GWB-4R	0.02688	0.009494	0.24	No	20	0.01819	0.01531	5	None	No	0.01	Param.
Vanadium (mg/L)	GWB-5R	0.01324	0.005072	0.24	No	20	0.01227	0.01408	5	None	ln(x)	0.01	Param.
Vanadium (mg/L)	GWB-6R	0.02766	0.01016	0.24	No	20	0.02212	0.02217	0	None	x^(1/3)	0.01	Param.
Vanadium (mg/L)	GWC-1	0.006309	0.00346	0.24	No	20	0.008457	0.006428	20	Kaplan-Meier	ln(x)	0.01	Param.
Vanadium (mg/L)	GWC-11	0.00641	0.0023	0.24	No	20	0.004181	0.00286	15	None	No	0.01	NP (normality)
Vanadium (mg/L)	GWC-12	0.006646	0.004276	0.24	No	20	0.005461	0.002087	10	None	No	0.01	Param.
Vanadium (mg/L)	GWC-13	0.02	0.00439	0.24	No	20	0.01502	0.00785	65	None	No	0.01	NP (NDs)
Vanadium (mg/L)	GWC-14	0.01339	0.006421	0.24	No	23	0.0107	0.007344	13.04	None	sqrt(x)	0.01	Param.
Vanadium (mg/L)	GWC-15	0.003467	0.002202	0.24	No	22	0.00496	0.003341	27.27	Kaplan-Meier	ln(x)	0.01	Param.
Vanadium (mg/L)	GWC-16	0.00631	0.0028	0.24	No	23	0.01163	0.01804	17.39	None	No	0.01	NP (normality)
Vanadium (mg/L)	GWC-17	0.02	0.0029	0.24	No	20	0.01048	0.008197	40	None	No	0.01	NP (normality)
Vanadium (mg/L)	GWC-2	0.02	0.00777	0.24	No	20	0.01773	0.005605	85	None	No	0.01	NP (NDs)
Vanadium (mg/L)	GWC-20	0.00768	0.0028	0.24	No	22	0.005296	0.003004	22.73	None	No	0.01	NP (normality)
Vanadium (mg/L)	GWC-21	0.005106	0.002913	0.24	No	20	0.005452	0.003059	20	Kaplan-Meier	sqrt(x)	0.01	Param.
Vanadium (mg/L)	GWC-22	0.02	0.0025	0.24	No	20	0.01385	0.009951	55	Kaplan-Meier	No	0.01	NP (NDs)
Vanadium (mg/L)	GWC-9	0.02	0.0103	0.24	No	20	0.01691	0.006554	80	None	No	0.01	NP (NDs)
Vanadium (mg/L)	MW-24D	0.02	0.00414	0.24	No	8	0.01802	0.005607	87.5	None	No	0.004	NP (NDs)
Vanadium (mg/L)	MW-25D	0.02	0.0024	0.24	No	8	0.0178	0.006223	87.5	None	No	0.004	NP (NDs)
Zinc (mg/L)	GWB-4R	0.008467	0.004946	0.16	No	20	0.01164	0.006771	35	Kaplan-Meier	sqrt(x)	0.01	Param.
Zinc (mg/L)	GWB-5R	0.02	0.0081	0.16	No	20	0.0167	0.00687	80	Kaplan-Meier	No	0.01	NP (NDs)
Zinc (mg/L)	GWB-6R	0.01235	0.003432	0.16	No	20	0.01229	0.009946	45	Kaplan-Meier	sqrt(x)	0.01	Param.
Zinc (mg/L)	GWC-1	0.02	0.00917	0.16	No	20	0.01567	0.007002	70	Kaplan-Meier	No	0.01	NP (NDs)
Zinc (mg/L)	GWC-11	0.02	0.00479	0.16	No	20	0.01609	0.009328	65	Kaplan-Meier	No	0.01	NP (NDs)
Zinc (mg/L)	GWC-12	0.02	0.0026	0.16	No	20	0.009754	0.008611	30	None	No	0.01	NP (normality)
Zinc (mg/L)	GWC-13	0.02961	0.01118	0.16	No	20	0.0204	0.01623	0	None	No	0.01	Param.
Zinc (mg/L)	GWC-14	0.02	0.01	0.16	No	23	0.01737	0.006009	82.61	None	No	0.01	NP (NDs)
Zinc (mg/L)	GWC-15	0.032	0.0051	0.16	No	22	0.01914	0.005378	86.36	None	No	0.01	NP (NDs)
Zinc (mg/L)	GWC-16	0.02	0.0051	0.16	No	23	0.01473	0.007712	65.22	None	No	0.01	NP (NDs)
Zinc (mg/L)	GWC-17	0.01107	0.006708	0.16	No	20	0.008891	0.003845	10	None	No	0.01	Param.
Zinc (mg/L)	GWC-2	0.02	0.0067	0.16	No	20	0.01724	0.01175	65	None	No	0.01	NP (NDs)
Zinc (mg/L)	GWC-20	0.031	0.0171	0.16	No	22	0.01893	0.005379	81.82	None	No	0.01	NP (NDs)
Zinc (mg/L)	GWC-21	0.02	0.00814	0.16	No	20	0.0155	0.007307	70	None	No	0.01	NP (NDs)
Zinc (mg/L)	GWC-22	0.02	0.0057	0.16	No	20	0.01355	0.007216	50	None	No	0.01	NP (normality)
Zinc (mg/L)	GWC-9	0.02	0.003	0.16	No	20	0.01157	0.008427	35	None	No	0.01	NP (normality)
Zinc (mg/L)	MW-23D	0.02	0.0067	0.16	No	8	0.01617	0.005485	62.5	None	No	0.004	NP (NDs)
Zinc (mg/L)	MW-24D	0.02	0.0025	0.16	No	8	0.01659	0.006645	75	None	No	0.004	NP (NDs)
Zinc (mg/L)	MW-25D	0.02648	0.003687	0.16	No	8	0.01998	0.01388	50	Kaplan-Meier	sqrt(x)	0.01	Param.
Zinc (mg/L)	MW-26D	0.03994	0	0.16	No	5	0.01884	0.01395	40	Kaplan-Meier	No	0.01	Param.

Appendix II & IV - Trend Test Summary - Significant Results

Grumman Road Landfill Client: Southern Company Data: Grumman Road Landfill Printed 12/13/2024, 1:59 PM

Constituent	Well	Slope	Calc.	Critical	Sig.	N	%NDs	Normality	Alpha	Method
Arsenic (mg/L)	**GWA-7 (bg)**	**-0.0008321**	**-93**	**-85**	**Yes**	**25**	**24**	**n/a**	**0.05**	**NP**
Arsenic (mg/L)	**GWC-15**	**0.03066**	**218**	**85**	**Yes**	**25**	**0**	**n/a**	**0.05**	**NP**
Arsenic (mg/L)	**GWC-16**	**0.006759**	**158**	**90**	**Yes**	**26**	**0**	**n/a**	**0.05**	**NP**
Molybdenum (mg/L)	**GWB-4R**	**0.01753**	**102**	**66**	**Yes**	**21**	**0**	**n/a**	**0.05**	**NP**

Appendix II & IV - Trend Test Summary - All Results

Grumman Road Landfill Client: Southern Company Data: Grumman Road Landfill Printed 12/13/2024, 1:59 PM

Constituent	Well	Slope	Calc.	Critical	Sig.	N	%NDs	Normality	Alpha	Method
Arsenic (mg/L)	**GWA-7 (bg)**	**-0.0008321**	**-93**	**-85**	**Yes**	**25**	**24**	**n/a**	**0.05**	**NP**
Arsenic (mg/L)	GWA-8 (bg)	0	35	90	No	26	73.08	n/a	0.05	NP
Arsenic (mg/L)	**GWC-15**	**0.03066**	**218**	**85**	**Yes**	**25**	**0**	**n/a**	**0.05**	**NP**
Arsenic (mg/L)	**GWC-16**	**0.006759**	**158**	**90**	**Yes**	**26**	**0**	**n/a**	**0.05**	**NP**
Arsenic (mg/L)	GWC-20	0.01213	64	85	No	25	0	n/a	0.05	NP
Molybdenum (mg/L)	GWA-7 (bg)	0	-53	-66	No	21	61.9	n/a	0.05	NP
Molybdenum (mg/L)	GWA-8 (bg)	0	0	66	No	21	100	n/a	0.05	NP
Molybdenum (mg/L)	**GWB-4R**	**0.01753**	**102**	**66**	**Yes**	**21**	**0**	**n/a**	**0.05**	**NP**
Molybdenum (mg/L)	GWC-16	0.001239	15	66	No	21	0	n/a	0.05	NP
Molybdenum (mg/L)	GWC-20	0.02667	32	66	No	21	0	n/a	0.05	NP

FIGURE A.

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Hollow symbols indicate censored values.

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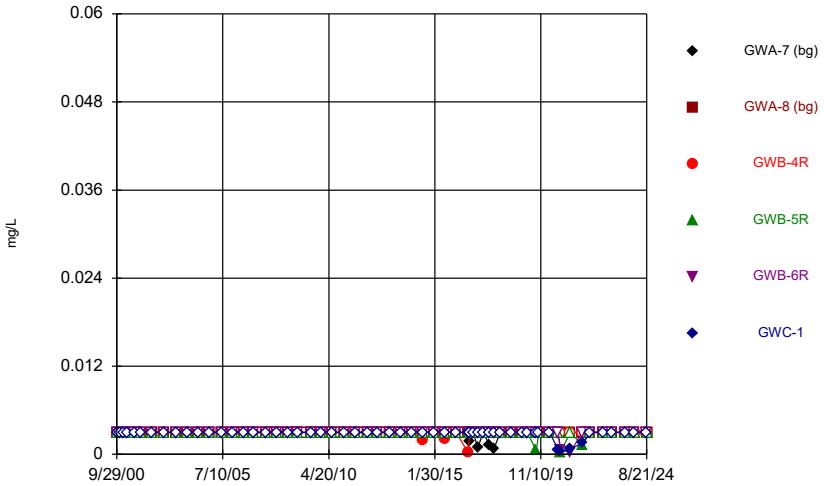

Constituent: Antimony Analysis Run 12/12/2024 1:57 PM
Grumman Road Landfill Client: Southern Company Data: Grumman Road Landfill

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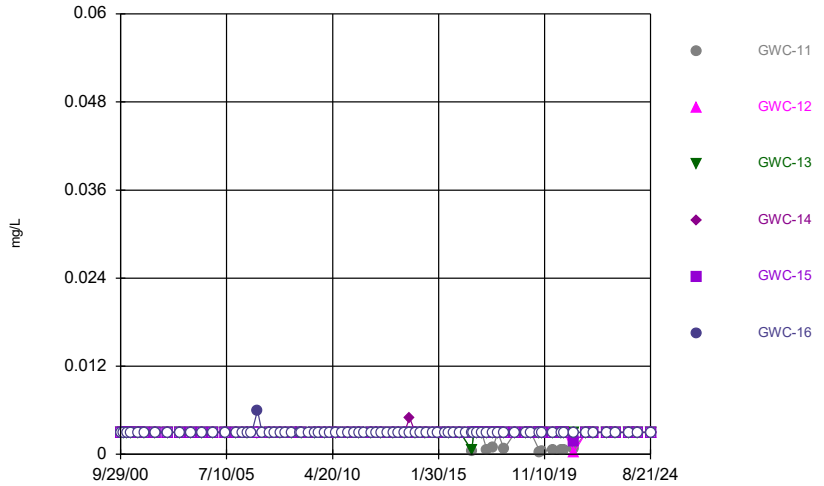

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Grumman Road Landfill Client: Southern Company Data: Grumman Road Landfill

Sanitas™ v.10.0.23a Software licensed to Groundwater Stats Consulting. UG
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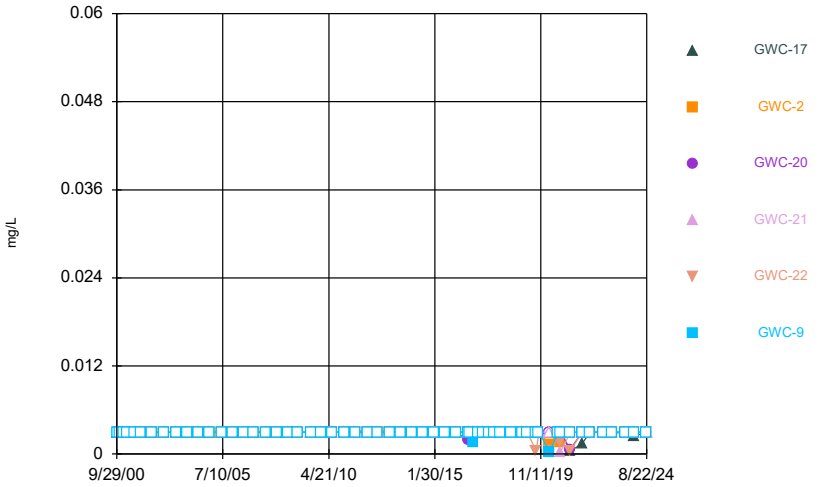

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Grumman Road Landfill Client: Southern Company Data: Grumman Road Landfill

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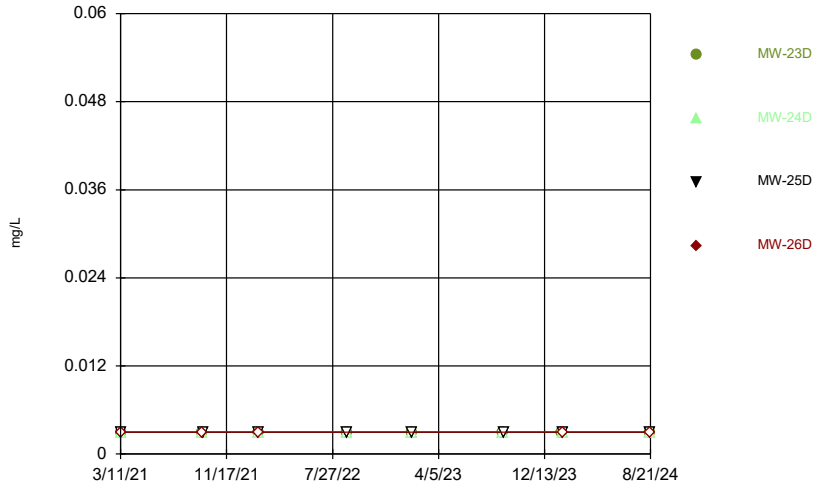

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Grumman Road Landfill Client: Southern Company Data: Grumman Road Landfill

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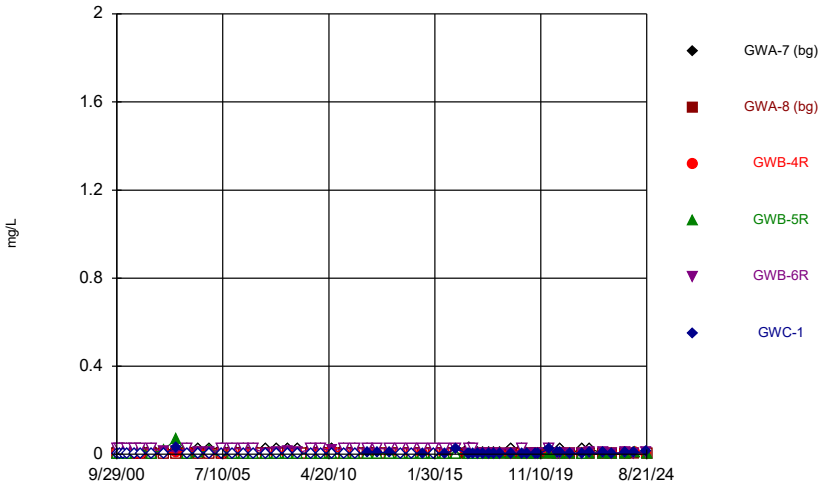

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Grumman Road Landfill Client: Southern Company Data: Grumman Road Landfill

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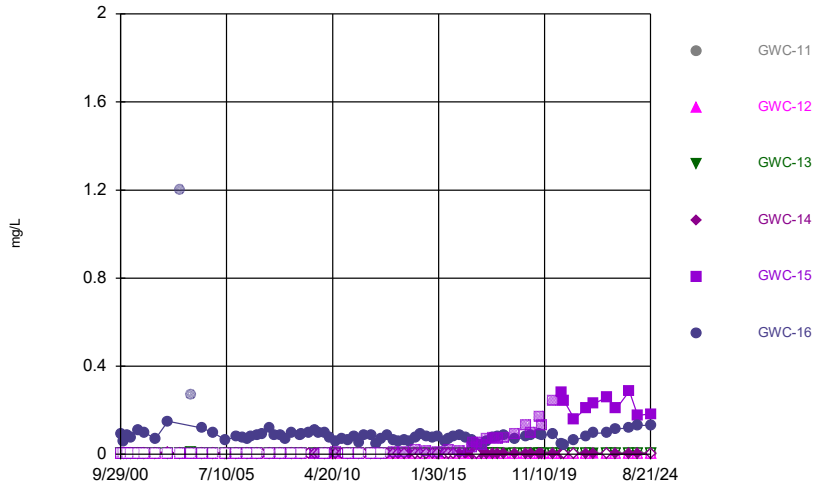

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Grumman Road Landfill Client: Southern Company Data: Grumman Road Landfill

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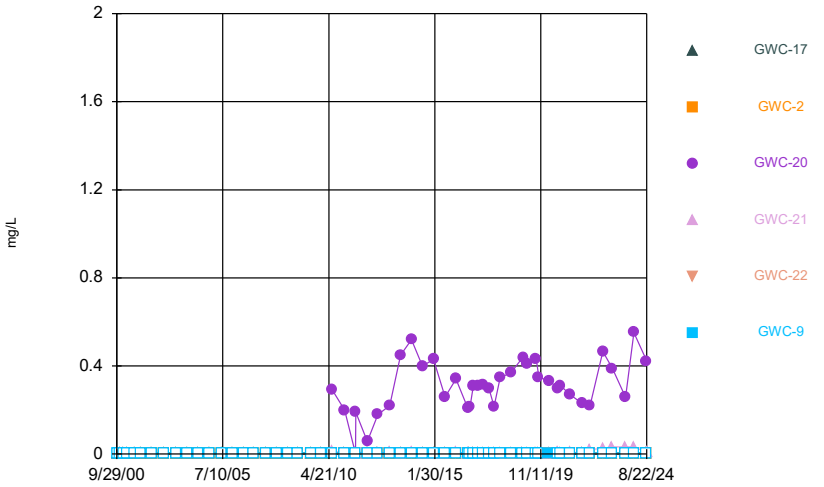

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Grumman Road Landfill Client: Southern Company Data: Grumman Road Landfill

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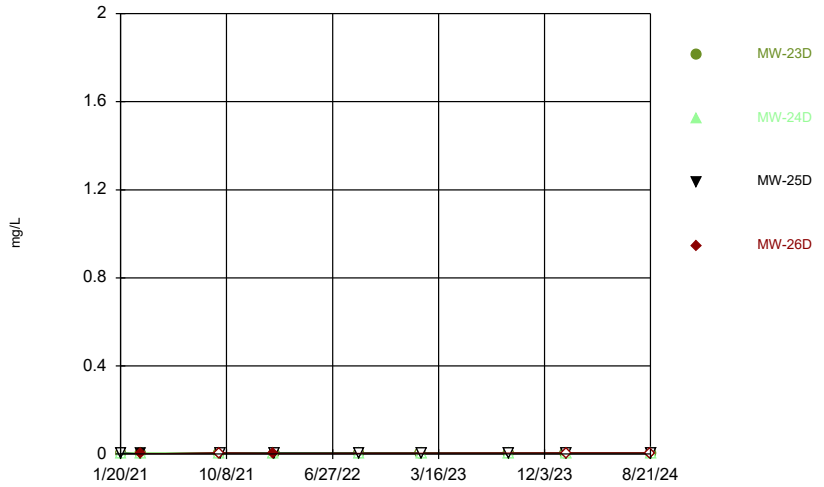

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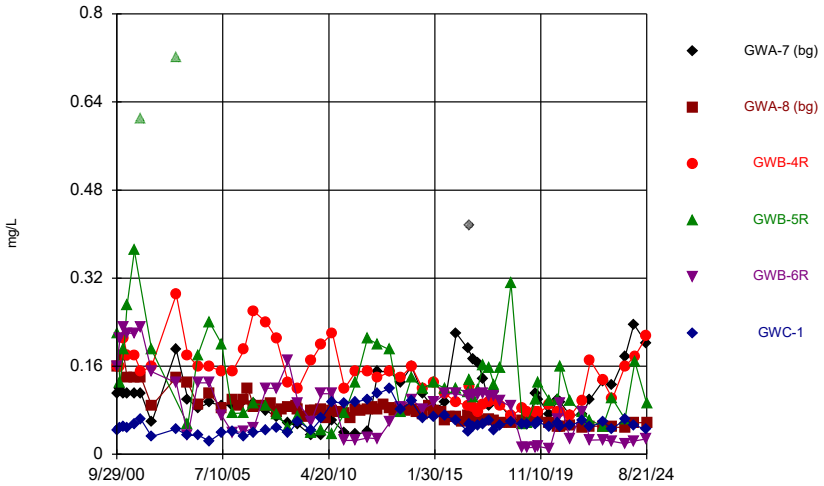

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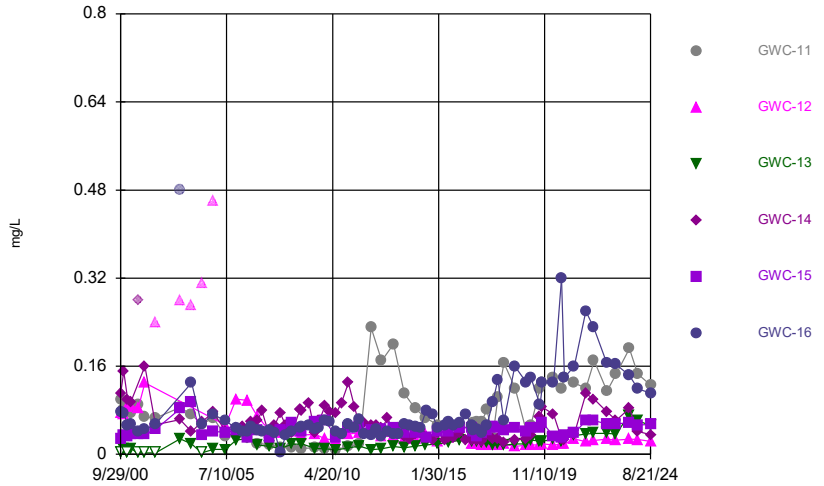

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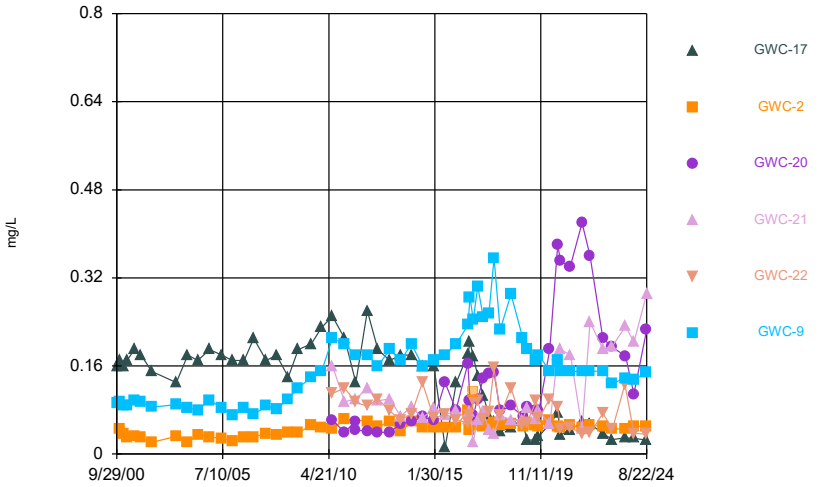

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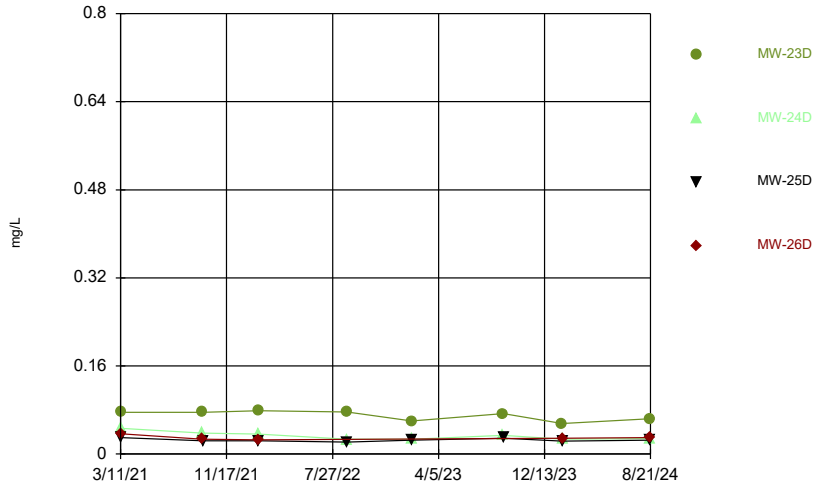

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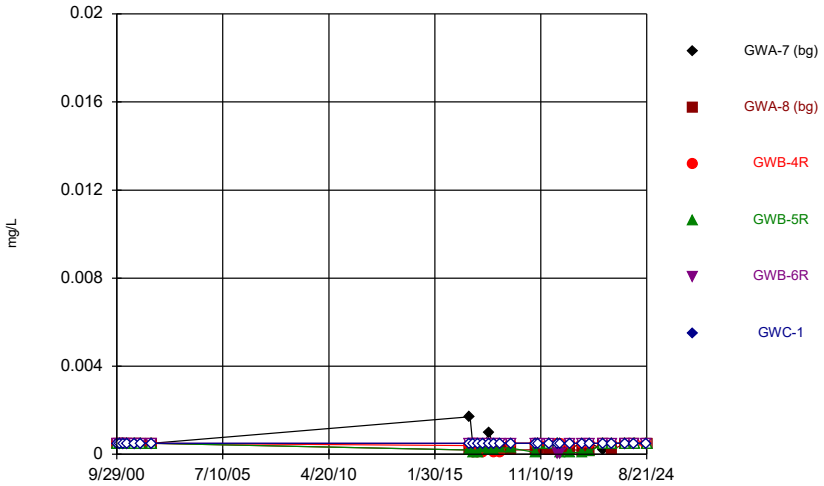

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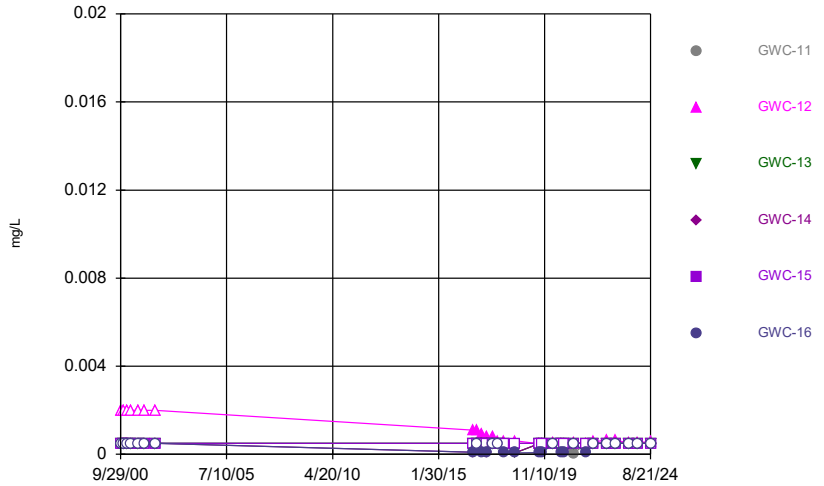

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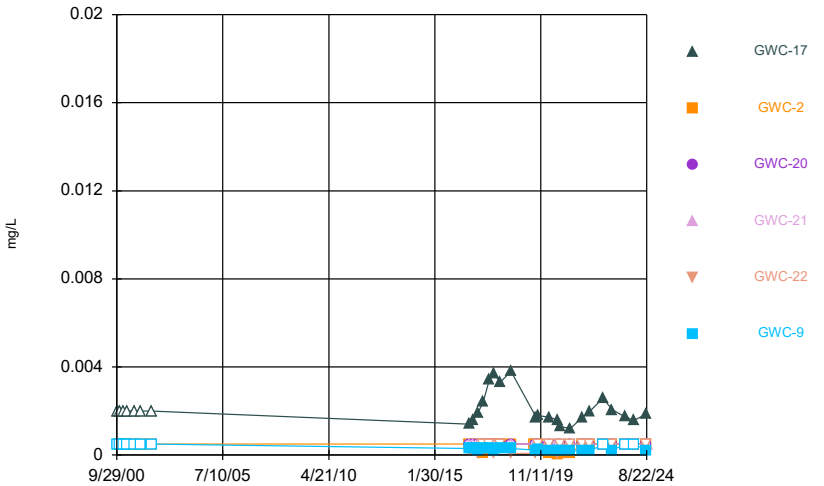

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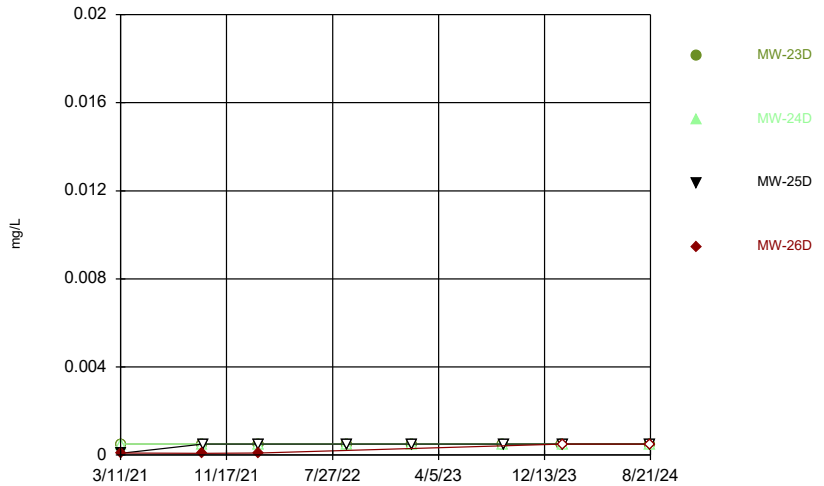

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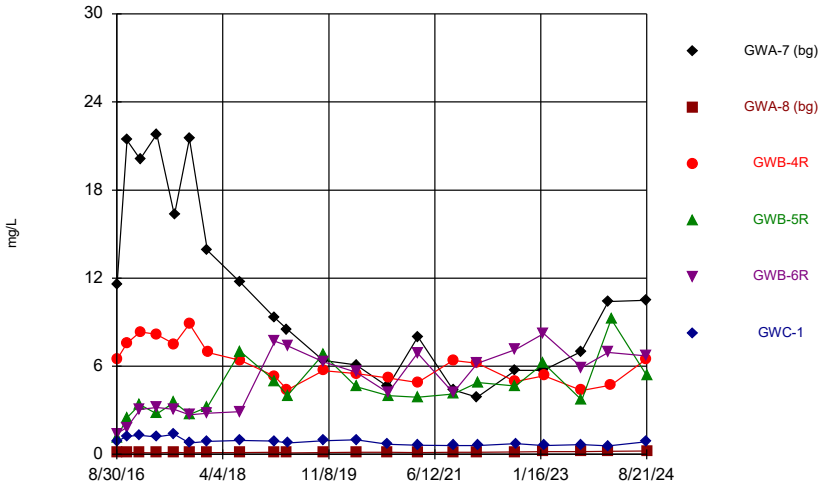

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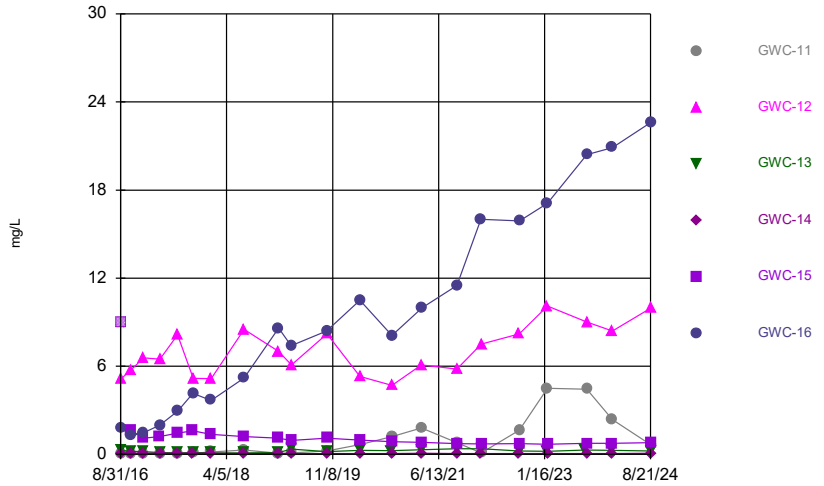

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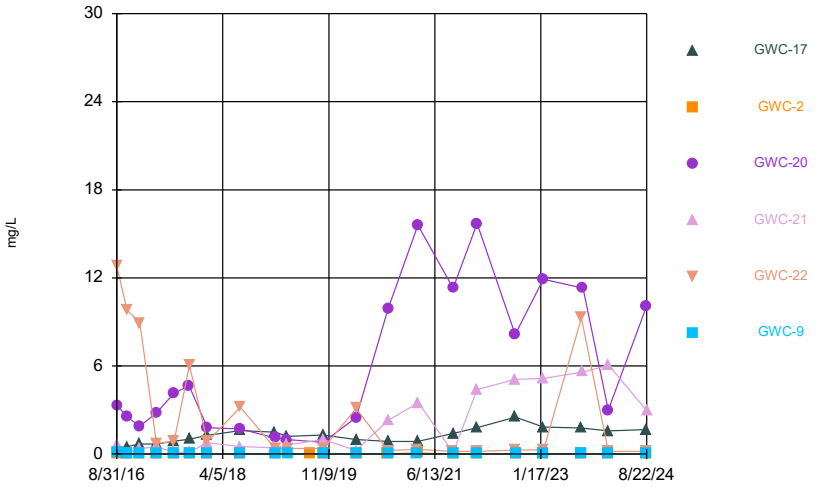

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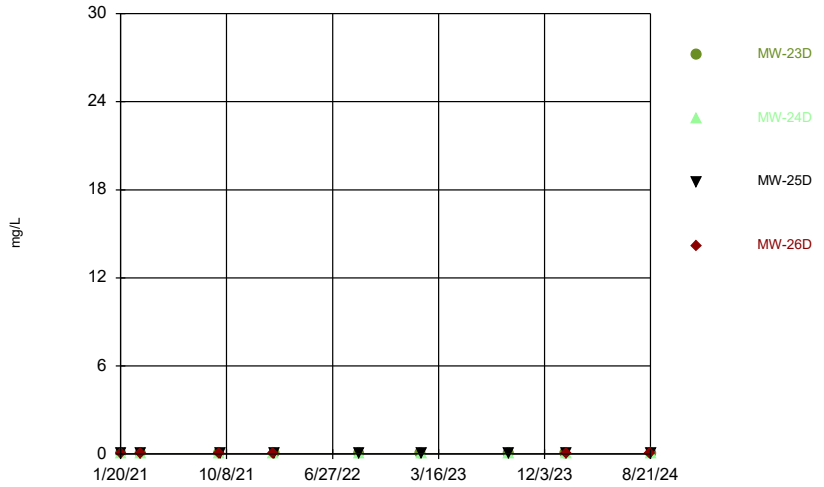

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Grumman Road Landfill Client: Southern Company Data: Grumman Road Landfill

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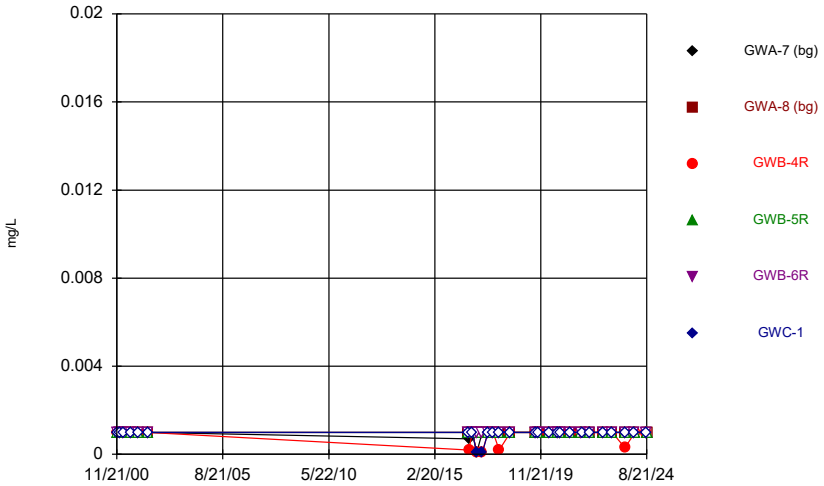

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Grumman Road Landfill Client: Southern Company Data: Grumman Road Landfill

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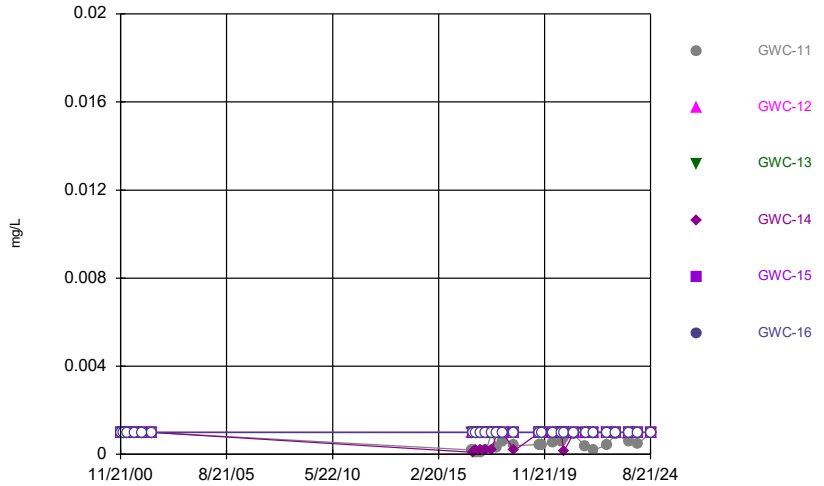

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Grumman Road Landfill Client: Southern Company Data: Grumman Road Landfill

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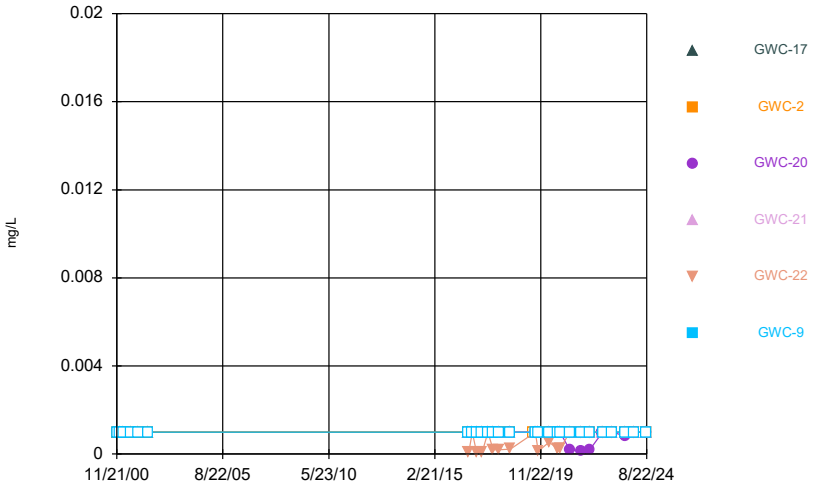

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Grumman Road Landfill Client: Southern Company Data: Grumman Road Landfill

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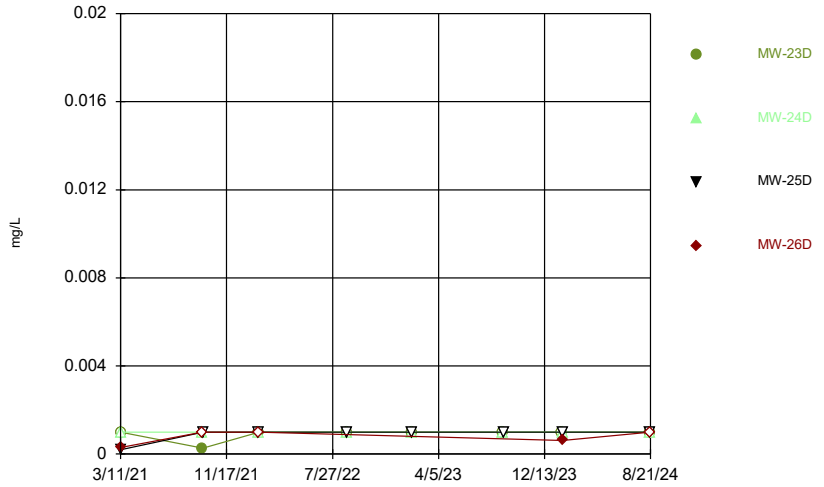

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Grumman Road Landfill Client: Southern Company Data: Grumman Road Landfill

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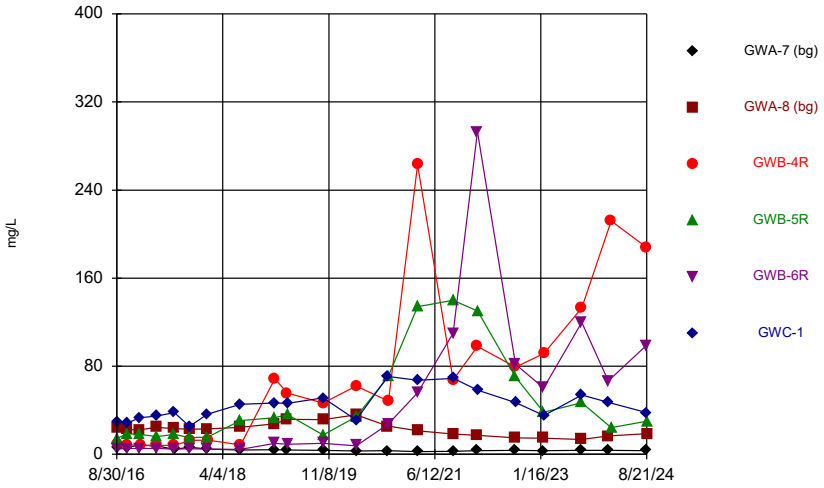

Constituent: Calcium Analysis Run 12/12/2024 1:57 PM

Grumman Road Landfill Client: Southern Company Data: Grumman Road Landfill

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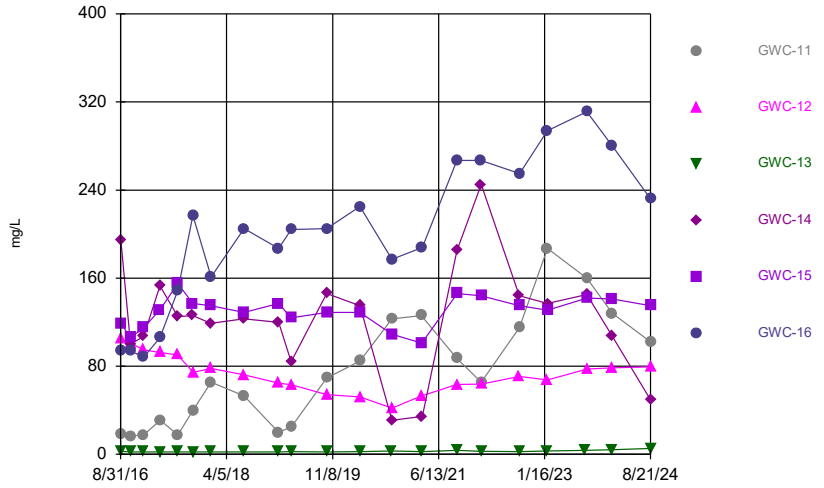
Time Series



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Grumman Road Landfill Client: Southern Company Data: Grumman Road Landfill

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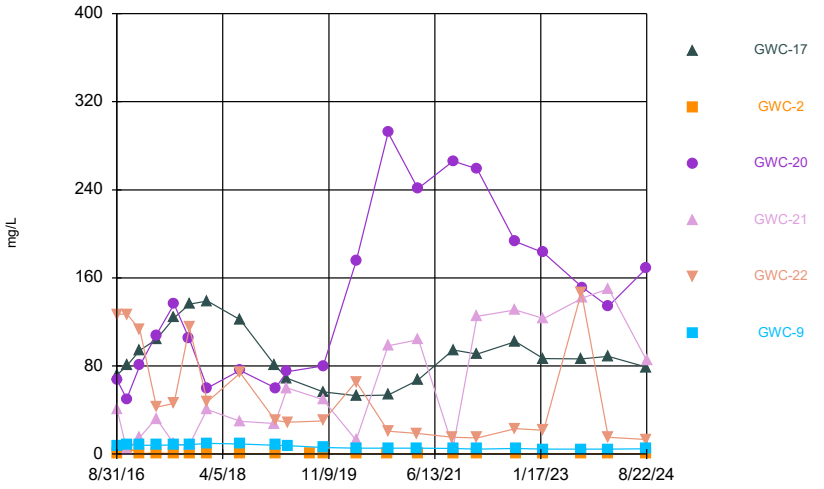

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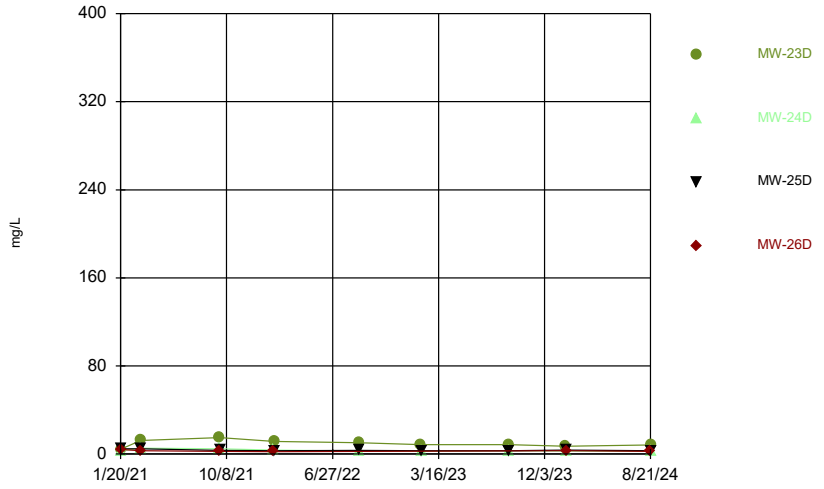
Grumman Road Landfill Client: Southern Company Data: Grumman Road Landfill

Sanitas™ v.10.0.23a Software licensed to Groundwater Stats Consulting. UG

Time Series



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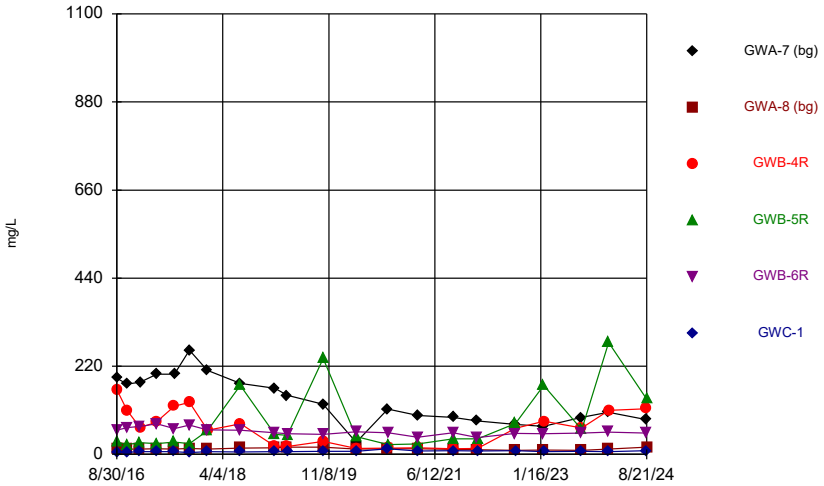
Grumman Road Landfill Client: Southern Company Data: Grumman Road Landfill

Sanitas™ v.10.0.23a Software licensed to Groundwater Stats Consulting. UG

Time Series



Constituent: Chloride Analysis Run 12/12/2024 1:58 PM

Grumman Road Landfill Client: Southern Company Data: Grumman Road Landfill

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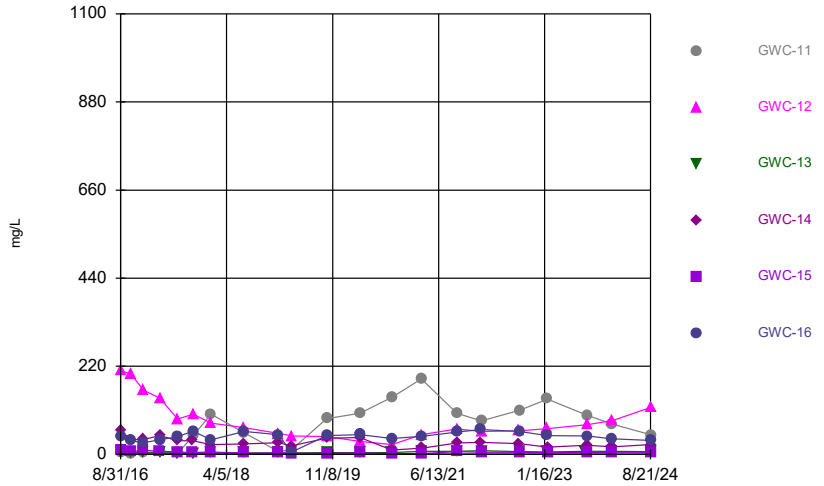
Time Series



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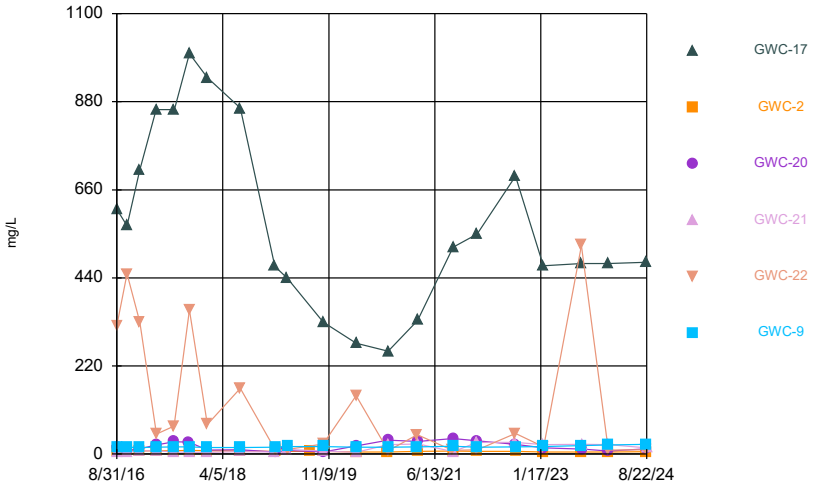
Grumman Road Landfill Client: Southern Company Data: Grumman Road Landfill

Sanitas™ v.10.0.23a Software licensed to Groundwater Stats Consulting. UG

Time Series



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Grumman Road Landfill Client: Southern Company Data: Grumman Road Landfill

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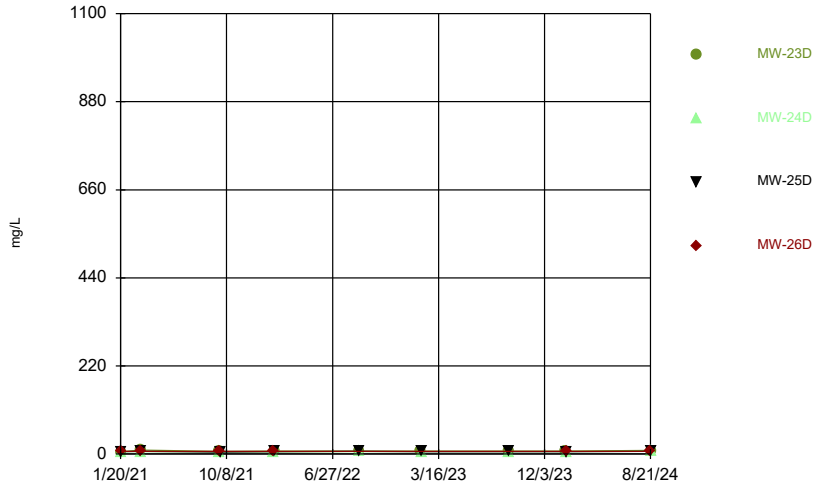
Time Series



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Grumman Road Landfill Client: Southern Company Data: Grumman Road Landfill

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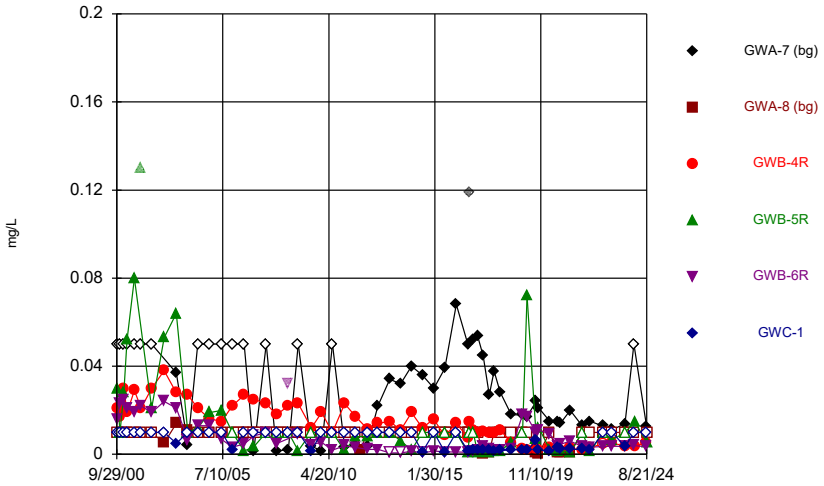
Time Series



Constituent: Chromium Analysis Run 12/12/2024 1:58 PM
Grumman Road Landfill Client: Southern Company Data: Grumman Road Landfill

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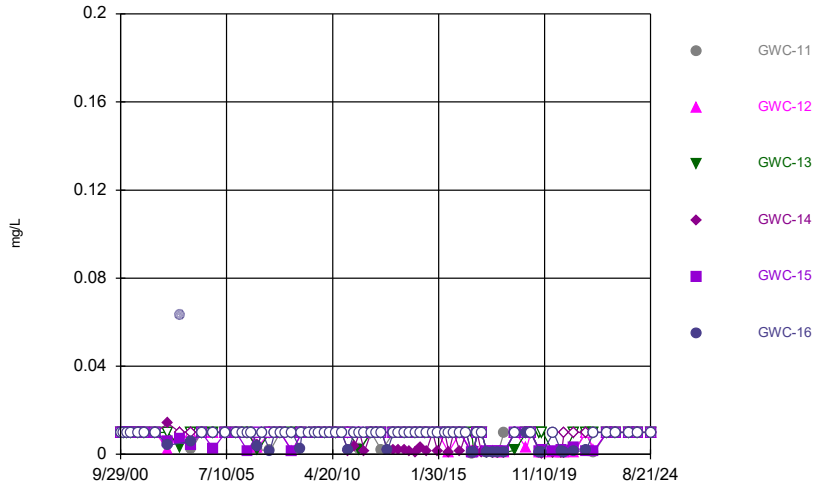
Hollow symbols indicate censored values.

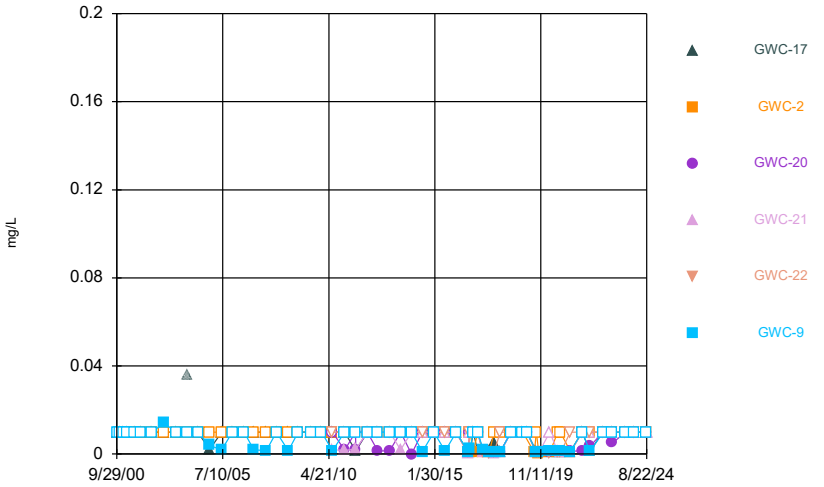
Time Series



Constituent: Chromium Analysis Run 12/12/2024 1:58 PM
Grumman Road Landfill Client: Southern Company Data: Grumman Road Landfill

Sanitas™ v.10.0.23a Software licensed to Groundwater Stats Consulting. UG
Hollow symbols indicate censored values.

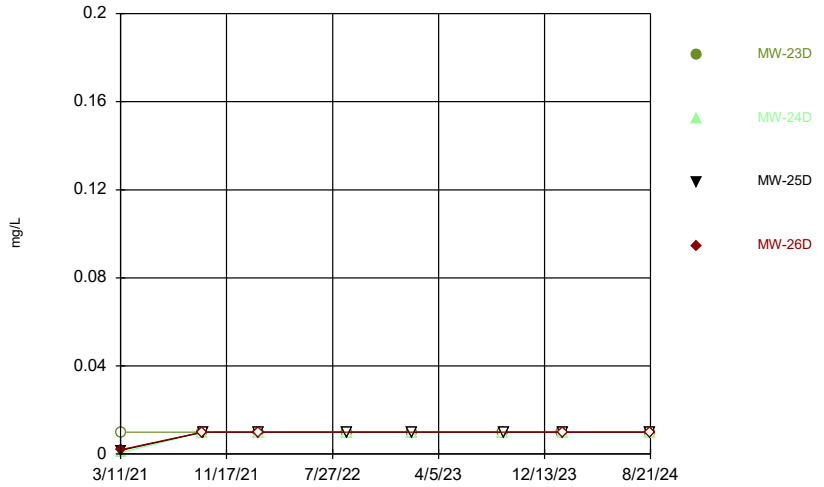
Time Series



Constituent: Chromium Analysis Run 12/12/2024 1:58 PM
Grumman Road Landfill Client: Southern Company Data: Grumman Road Landfill

Sanitas™ v.10.0.23a Software licensed to Groundwater Stats Consulting. UG
Hollow symbols indicate censored values.

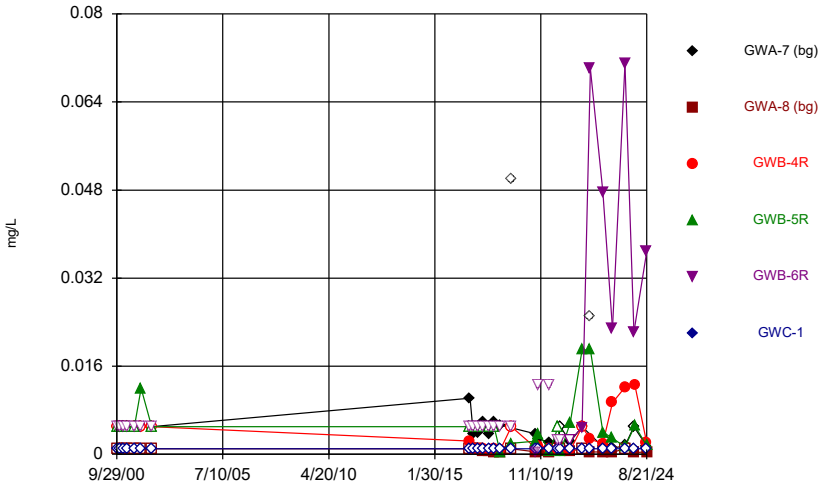
Time Series



Constituent: Chromium Analysis Run 12/12/2024 1:58 PM
Grumman Road Landfill Client: Southern Company Data: Grumman Road Landfill

Sanitas™ v.10.0.23a Software licensed to Groundwater Stats Consulting. UG
Hollow symbols indicate censored values.

Time Series

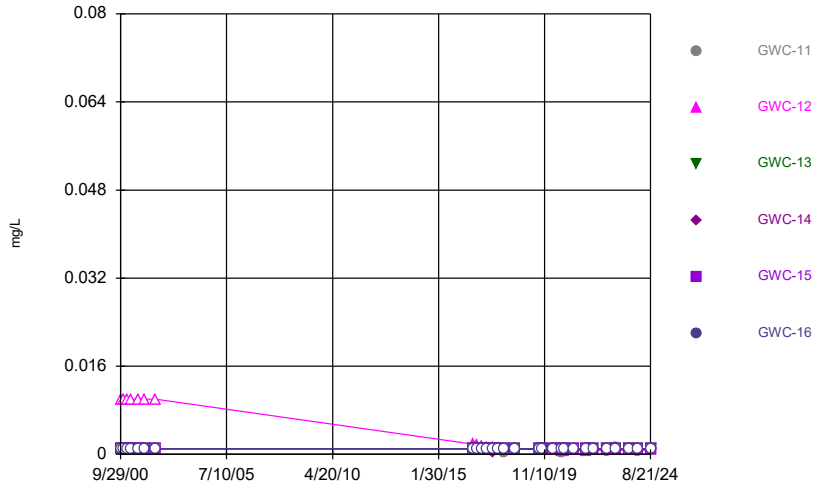


Constituent: Cobalt Analysis Run 12/12/2024 1:58 PM

Grumman Road Landfill Client: Southern Company Data: Grumman Road Landfill

Sanitas™ v.10.0.23a Software licensed to Groundwater Stats Consulting. UG
Hollow symbols indicate censored values.

Time Series

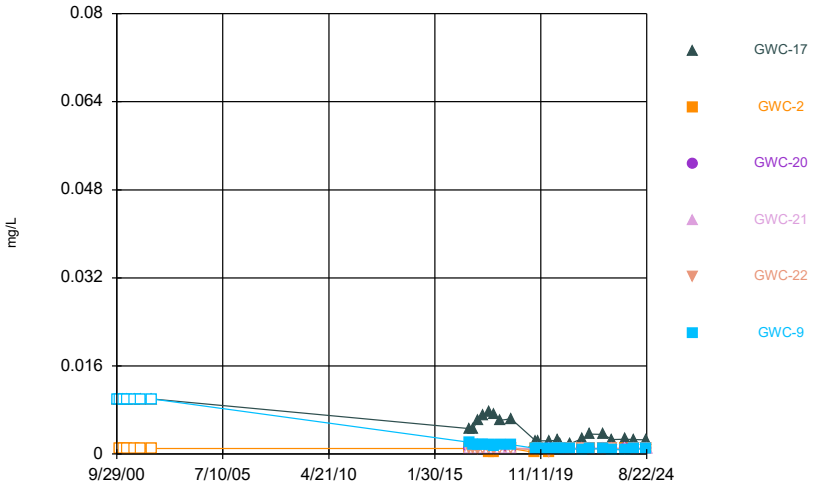


Constituent: Cobalt Analysis Run 12/12/2024 1:58 PM

Grumman Road Landfill Client: Southern Company Data: Grumman Road Landfill

Sanitas™ v.10.0.23a Software licensed to Groundwater Stats Consulting. UG
Hollow symbols indicate censored values.

Time Series

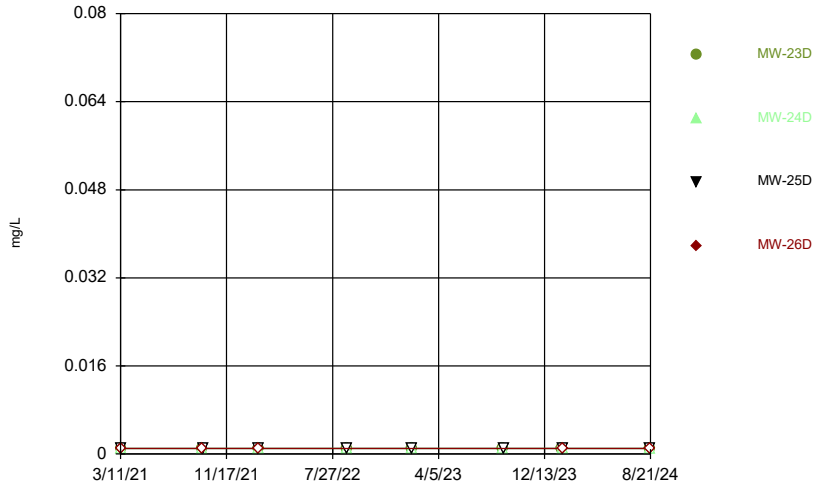


Constituent: Cobalt Analysis Run 12/12/2024 1:58 PM

Grumman Road Landfill Client: Southern Company Data: Grumman Road Landfill

Sanitas™ v.10.0.23a Software licensed to Groundwater Stats Consulting. UG
Hollow symbols indicate censored values.

Time Series

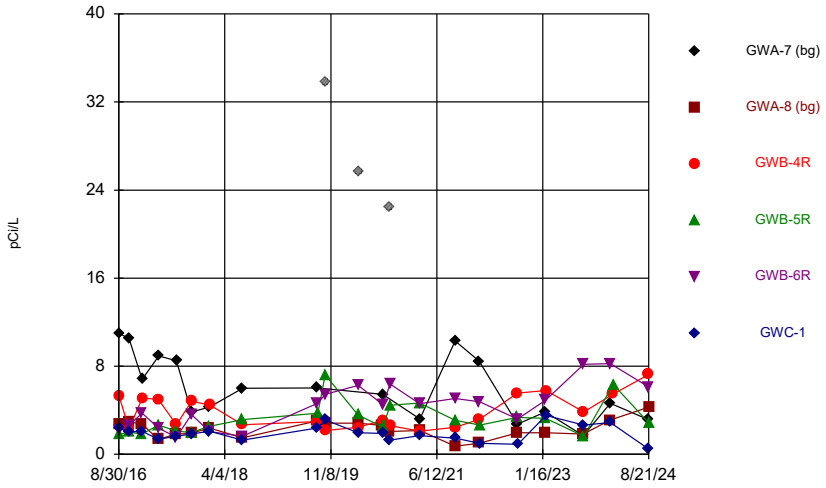


Constituent: Cobalt Analysis Run 12/12/2024 1:58 PM

Grumman Road Landfill Client: Southern Company Data: Grumman Road Landfill

Sanitas™ v.10.0.23a Software licensed to Groundwater Stats Consulting. UG

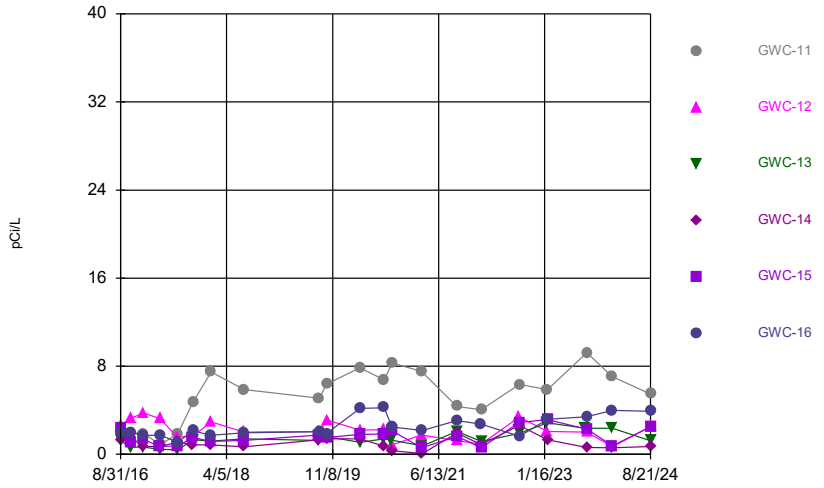
Time Series



Constituent: Combined Radium 226 + 228 Analysis Run 12/12/2024 1:58 PM
Grumman Road Landfill Client: Southern Company Data: Grumman Road Landfill

Sanitas™ v.10.0.23a Software licensed to Groundwater Stats Consulting. UG

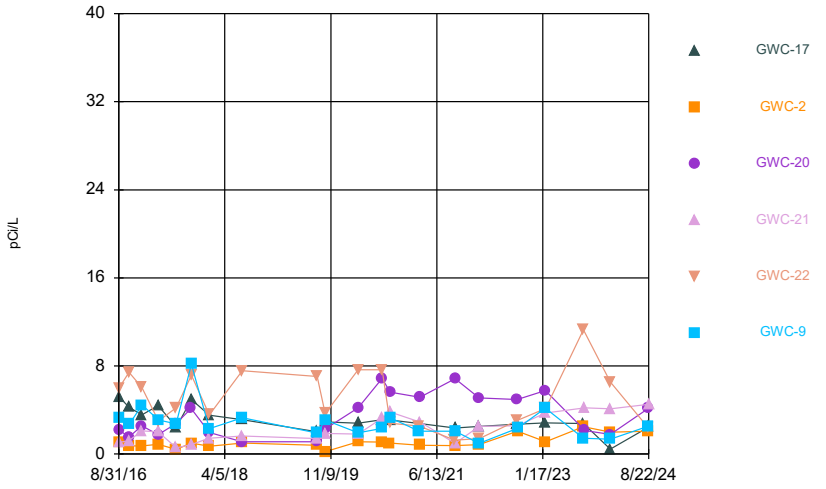
Time Series



Constituent: Combined Radium 226 + 228 Analysis Run 12/12/2024 1:58 PM
Grumman Road Landfill Client: Southern Company Data: Grumman Road Landfill

Sanitas™ v.10.0.23a Software licensed to Groundwater Stats Consulting. UG

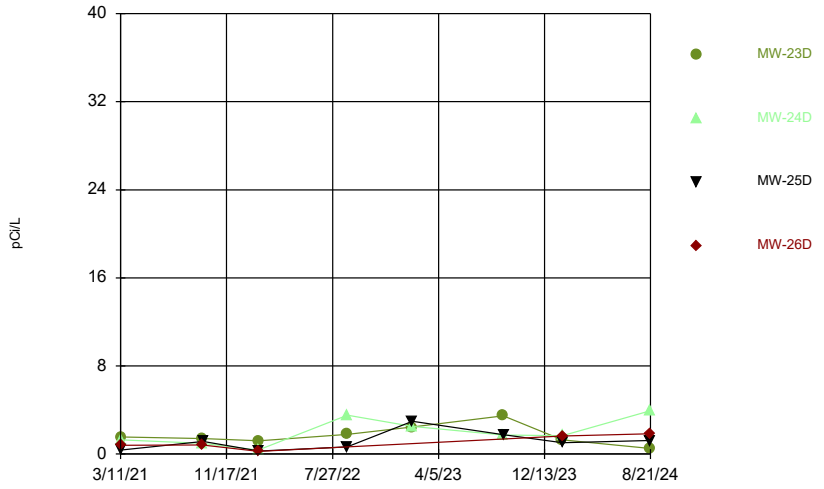
Time Series



Constituent: Combined Radium 226 + 228 Analysis Run 12/12/2024 1:58 PM
Grumman Road Landfill Client: Southern Company Data: Grumman Road Landfill

Sanitas™ v.10.0.23a Software licensed to Groundwater Stats Consulting. UG

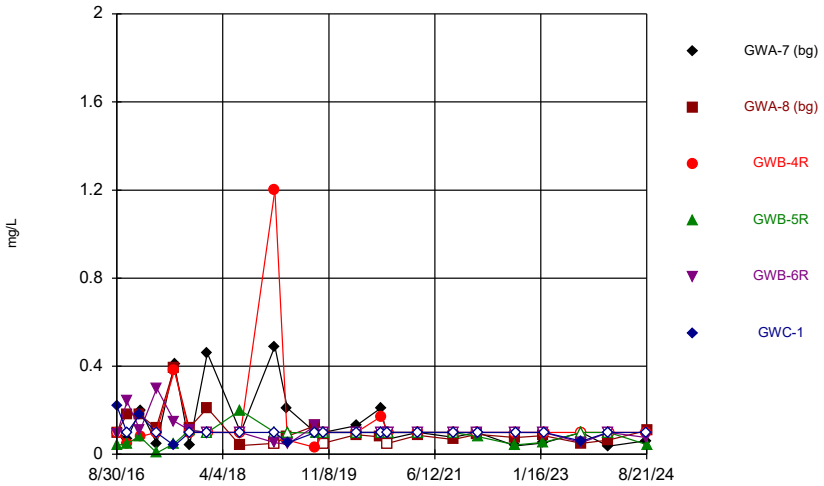
Time Series



Constituent: Combined Radium 226 + 228 Analysis Run 12/12/2024 1:58 PM
Grumman Road Landfill Client: Southern Company Data: Grumman Road Landfill

Sanitas™ v.10.0.23a Software licensed to Groundwater Stats Consulting. UG
Hollow symbols indicate censored values.

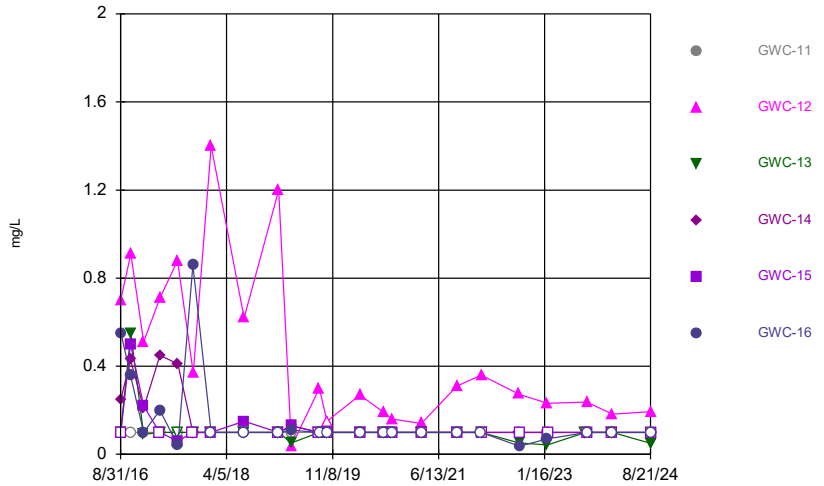
Time Series



Constituent: Fluoride Analysis Run 12/12/2024 1:58 PM
Grumman Road Landfill Client: Southern Company Data: Grumman Road Landfill

Sanitas™ v.10.0.23a Software licensed to Groundwater Stats Consulting. UG
Hollow symbols indicate censored values.

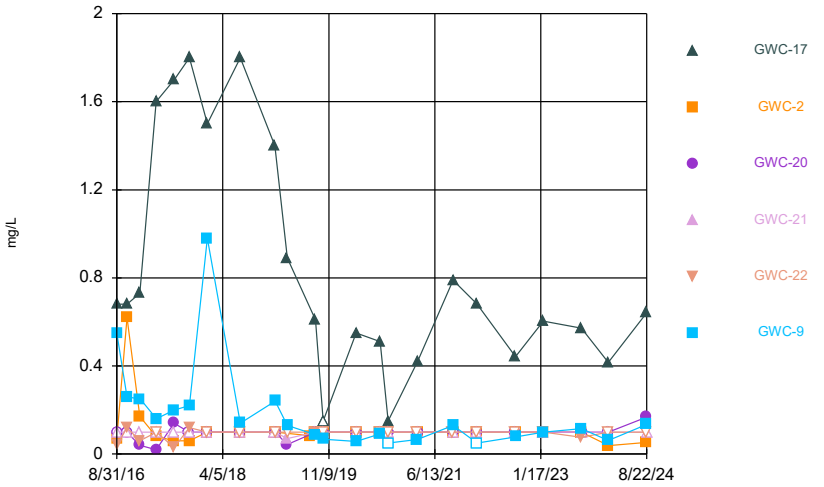
Time Series



Constituent: Fluoride Analysis Run 12/12/2024 1:58 PM
Grumman Road Landfill Client: Southern Company Data: Grumman Road Landfill

Sanitas™ v.10.0.23a Software licensed to Groundwater Stats Consulting. UG
Hollow symbols indicate censored values.

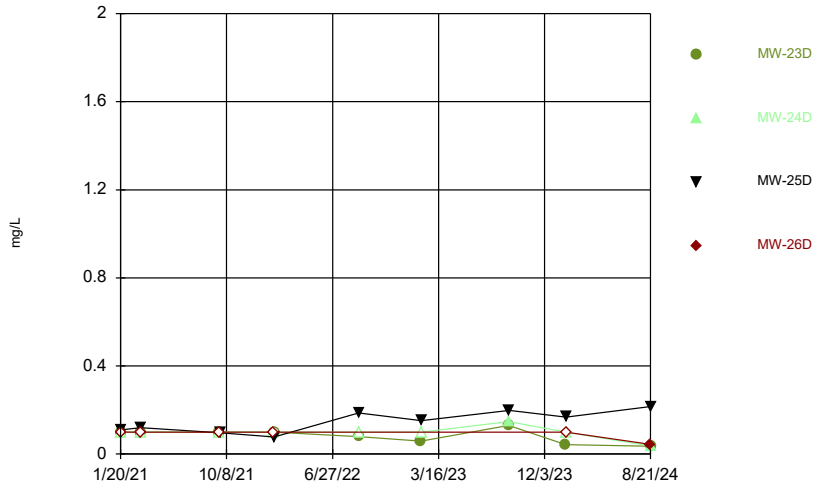
Time Series



Constituent: Fluoride Analysis Run 12/12/2024 1:58 PM
Grumman Road Landfill Client: Southern Company Data: Grumman Road Landfill

Sanitas™ v.10.0.23a Software licensed to Groundwater Stats Consulting. UG
Hollow symbols indicate censored values.

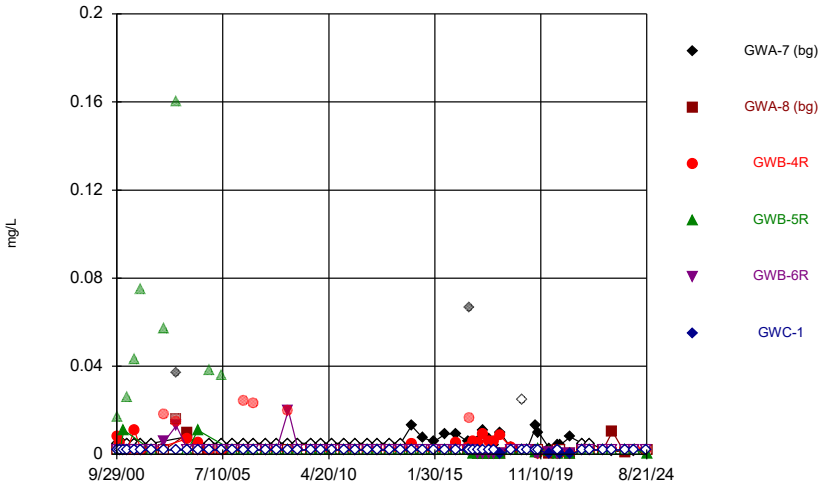
Time Series



Constituent: Fluoride Analysis Run 12/12/2024 1:58 PM
Grumman Road Landfill Client: Southern Company Data: Grumman Road Landfill

Sanitas™ v.10.0.23a Software licensed to Groundwater Stats Consulting. UG
Hollow symbols indicate censored values.

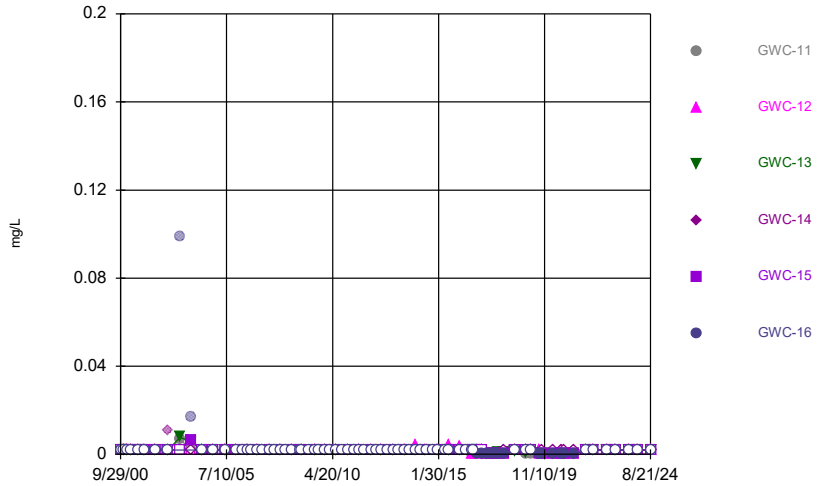
Time Series



Constituent: Lead Analysis Run 12/12/2024 1:58 PM
Grumman Road Landfill Client: Southern Company Data: Grumman Road Landfill

Sanitas™ v.10.0.23a Software licensed to Groundwater Stats Consulting. UG
Hollow symbols indicate censored values.

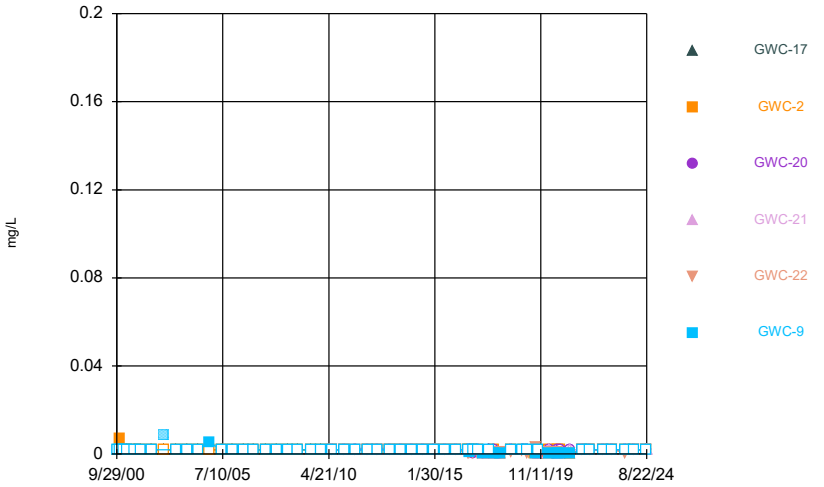
Time Series



Constituent: Lead Analysis Run 12/12/2024 1:58 PM
Grumman Road Landfill Client: Southern Company Data: Grumman Road Landfill

Sanitas™ v.10.0.23a Software licensed to Groundwater Stats Consulting. UG
Hollow symbols indicate censored values.

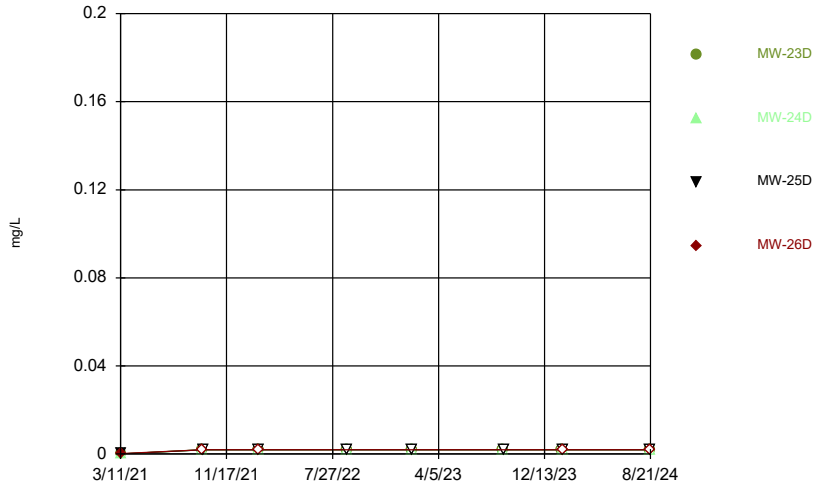
Time Series



Constituent: Lead Analysis Run 12/12/2024 1:58 PM
Grumman Road Landfill Client: Southern Company Data: Grumman Road Landfill

Sanitas™ v.10.0.23a Software licensed to Groundwater Stats Consulting. UG
Hollow symbols indicate censored values.

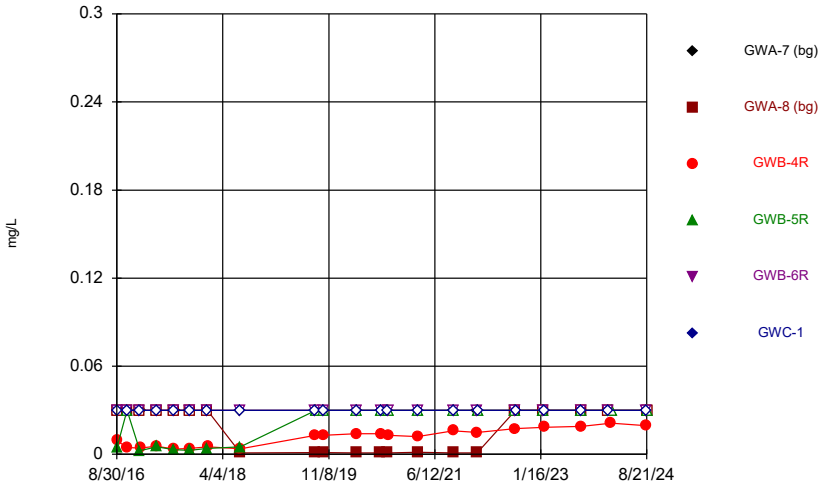
Time Series



Constituent: Lead Analysis Run 12/12/2024 1:58 PM
Grumman Road Landfill Client: Southern Company Data: Grumman Road Landfill

Sanitas™ v.10.0.23a Software licensed to Groundwater Stats Consulting. UG
Hollow symbols indicate censored values.

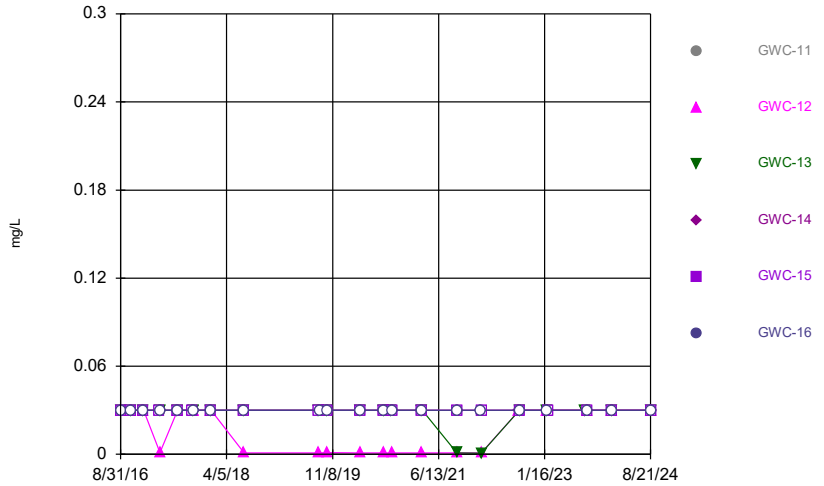
Time Series



Constituent: Lithium Analysis Run 12/12/2024 1:58 PM
Grumman Road Landfill Client: Southern Company Data: Grumman Road Landfill

Sanitas™ v.10.0.23a Software licensed to Groundwater Stats Consulting. UG
Hollow symbols indicate censored values.

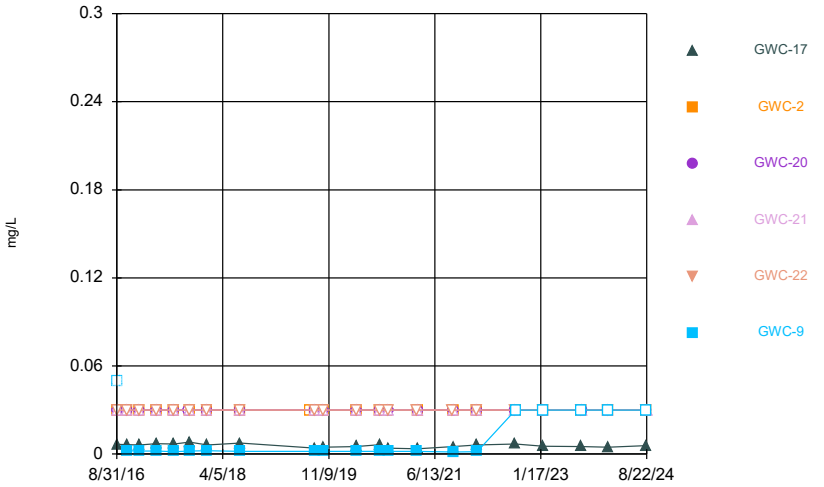
Time Series



Constituent: Lithium Analysis Run 12/12/2024 1:58 PM
Grumman Road Landfill Client: Southern Company Data: Grumman Road Landfill

Sanitas™ v.10.0.23a Software licensed to Groundwater Stats Consulting. UG
Hollow symbols indicate censored values.

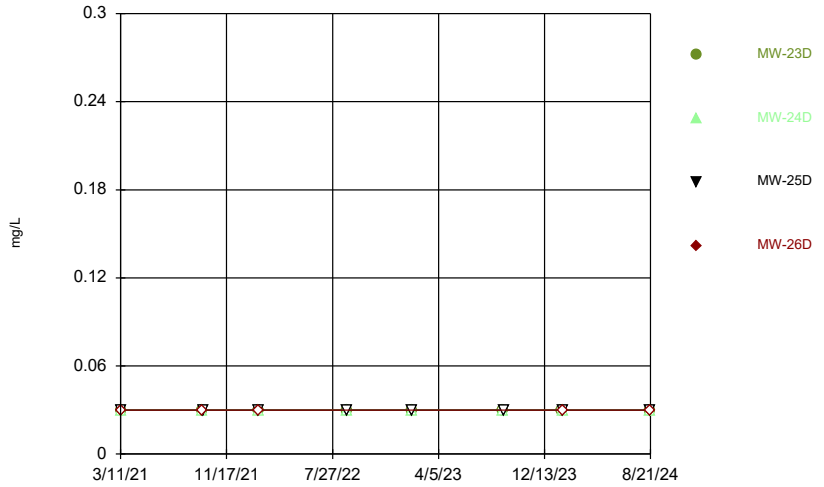
Time Series



Constituent: Lithium Analysis Run 12/12/2024 1:58 PM
Grumman Road Landfill Client: Southern Company Data: Grumman Road Landfill

Sanitas™ v.10.0.23a Software licensed to Groundwater Stats Consulting. UG
Hollow symbols indicate censored values.

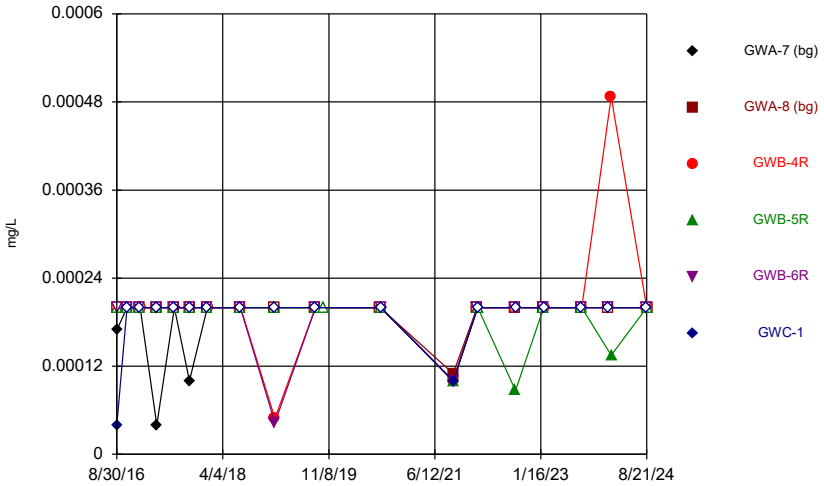
Time Series



Constituent: Lithium Analysis Run 12/12/2024 1:58 PM
Grumman Road Landfill Client: Southern Company Data: Grumman Road Landfill

Sanitas™ v.10.0.23a Software licensed to Groundwater Stats Consulting. UG
Hollow symbols indicate censored values.

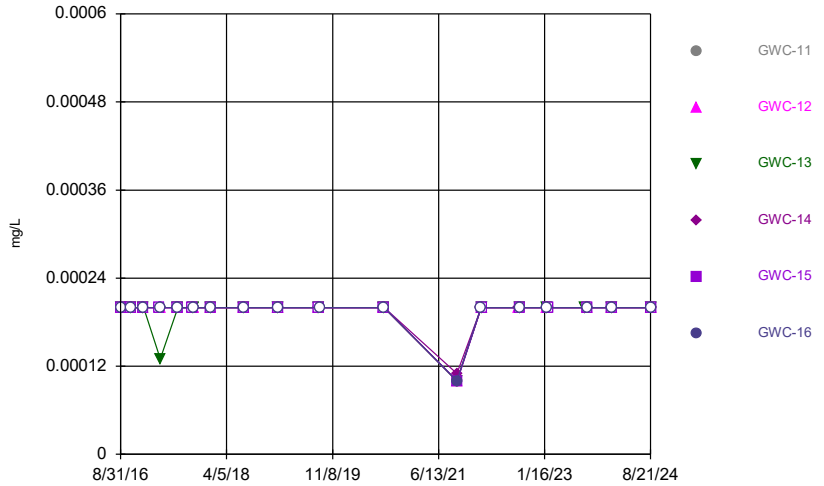
Time Series



Constituent: Mercury Analysis Run 12/12/2024 1:58 PM
Grumman Road Landfill Client: Southern Company Data: Grumman Road Landfill

Sanitas™ v.10.0.23a Software licensed to Groundwater Stats Consulting. UG
Hollow symbols indicate censored values.

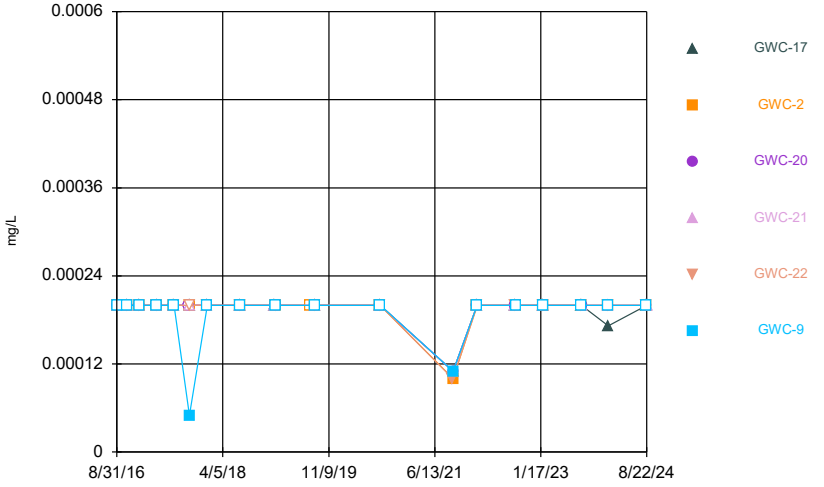
Time Series



Constituent: Mercury Analysis Run 12/12/2024 1:58 PM
Grumman Road Landfill Client: Southern Company Data: Grumman Road Landfill

Sanitas™ v.10.0.23a Software licensed to Groundwater Stats Consulting. UG
Hollow symbols indicate censored values.

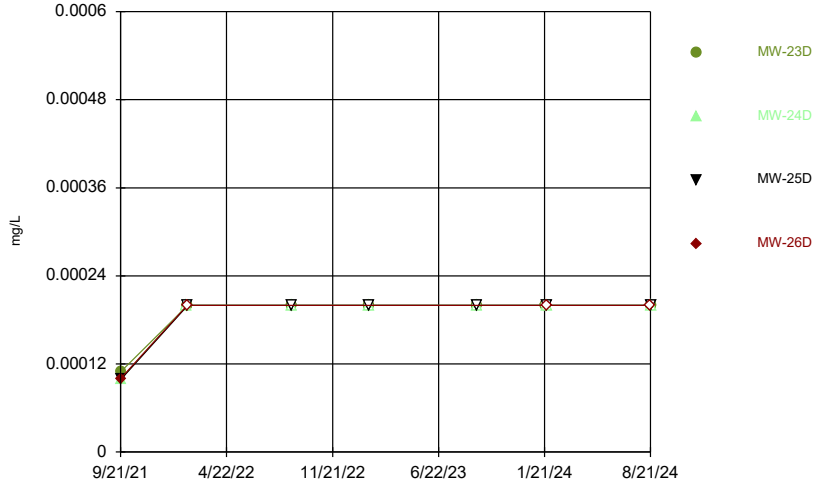
Time Series



Constituent: Mercury Analysis Run 12/12/2024 1:58 PM
Grumman Road Landfill Client: Southern Company Data: Grumman Road Landfill

Sanitas™ v.10.0.23a Software licensed to Groundwater Stats Consulting. UG
Hollow symbols indicate censored values.

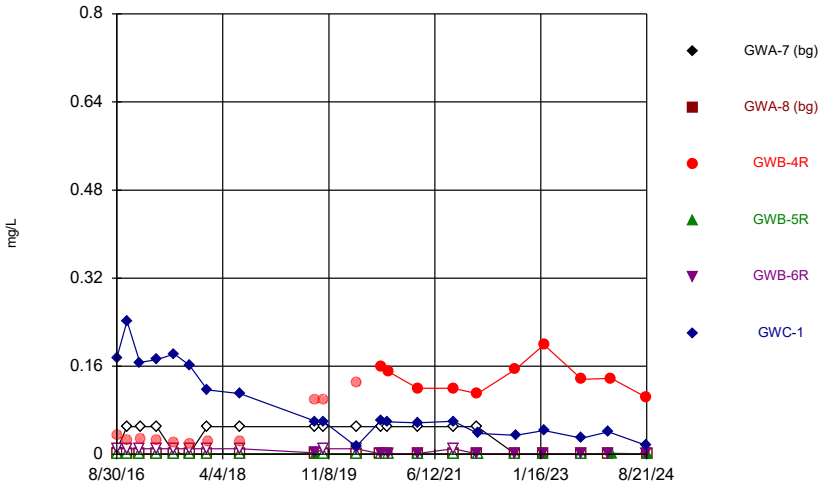
Time Series



Constituent: Mercury Analysis Run 12/12/2024 1:58 PM
Grumman Road Landfill Client: Southern Company Data: Grumman Road Landfill

Sanitas™ v.10.0.23a Software licensed to Groundwater Stats Consulting. UG
Hollow symbols indicate censored values.

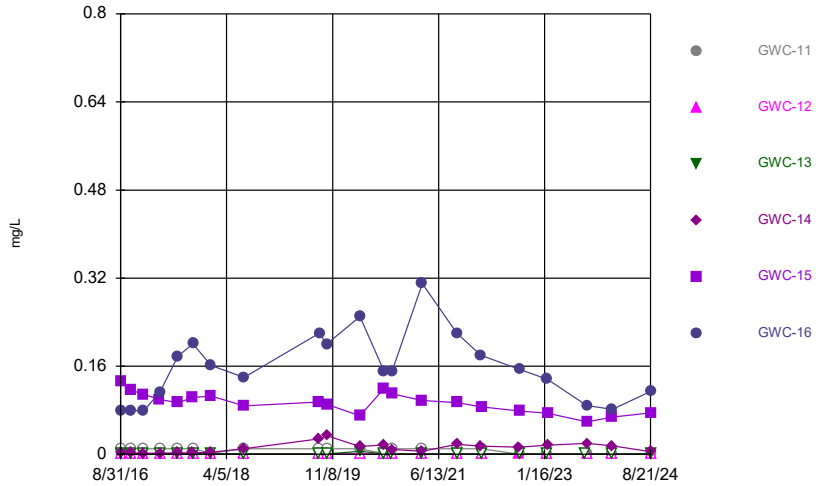
Time Series



Constituent: Molybdenum Analysis Run 12/12/2024 1:58 PM
Grumman Road Landfill Client: Southern Company Data: Grumman Road Landfill

Sanitas™ v.10.0.23a Software licensed to Groundwater Stats Consulting. UG
Hollow symbols indicate censored values.

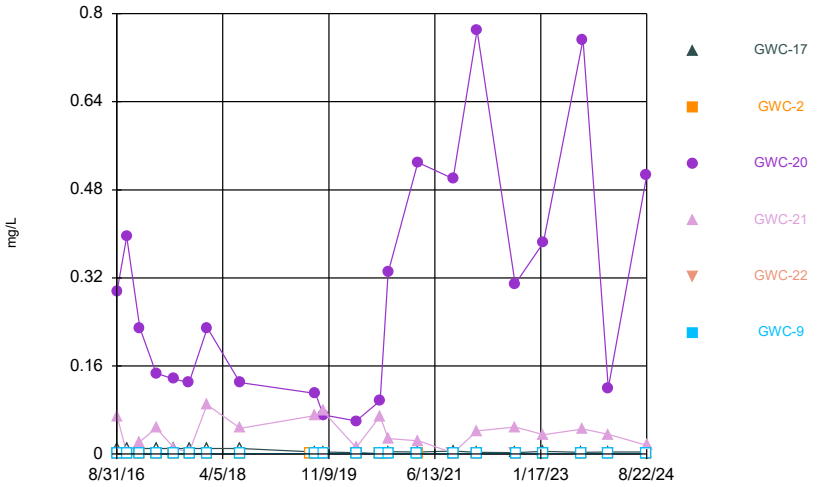
Time Series



Constituent: Molybdenum Analysis Run 12/12/2024 1:58 PM
Grumman Road Landfill Client: Southern Company Data: Grumman Road Landfill

Sanitas™ v.10.0.23a Software licensed to Groundwater Stats Consulting. UG
Hollow symbols indicate censored values.

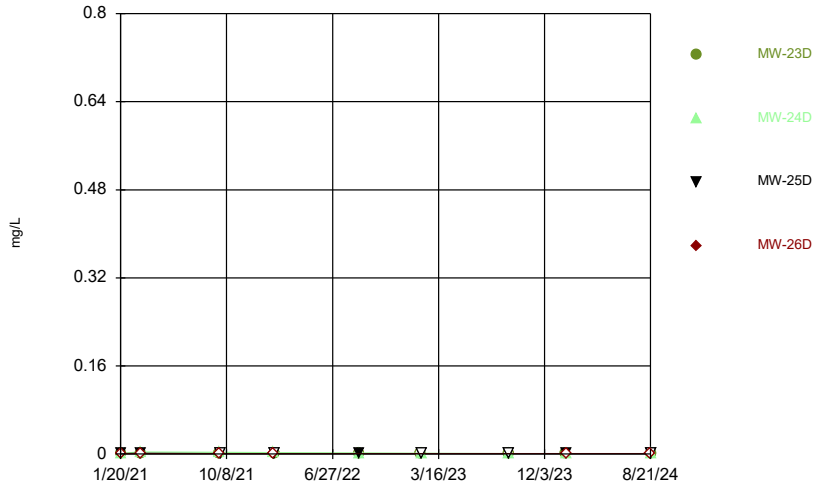
Time Series



Constituent: Molybdenum Analysis Run 12/12/2024 1:58 PM
Grumman Road Landfill Client: Southern Company Data: Grumman Road Landfill

Sanitas™ v.10.0.23a Software licensed to Groundwater Stats Consulting. UG
Hollow symbols indicate censored values.

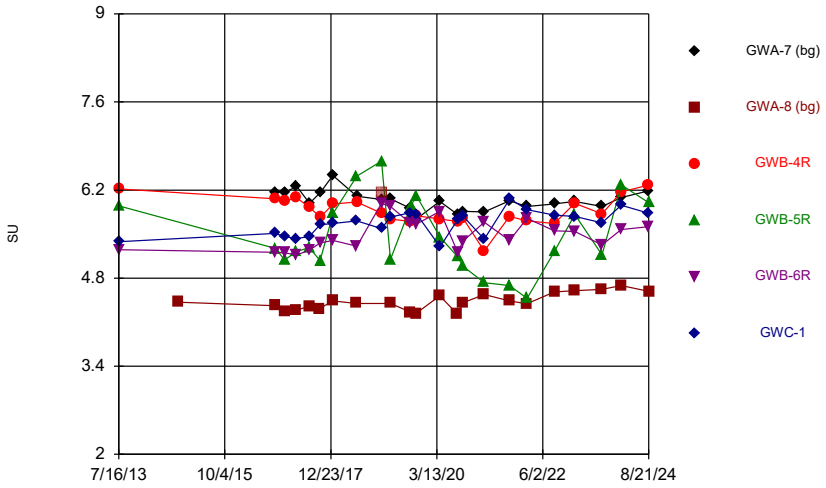
Time Series



Constituent: Molybdenum Analysis Run 12/12/2024 1:58 PM
Grumman Road Landfill Client: Southern Company Data: Grumman Road Landfill

Sanitas™ v.10.0.23a Software licensed to Groundwater Stats Consulting. UG

Time Series

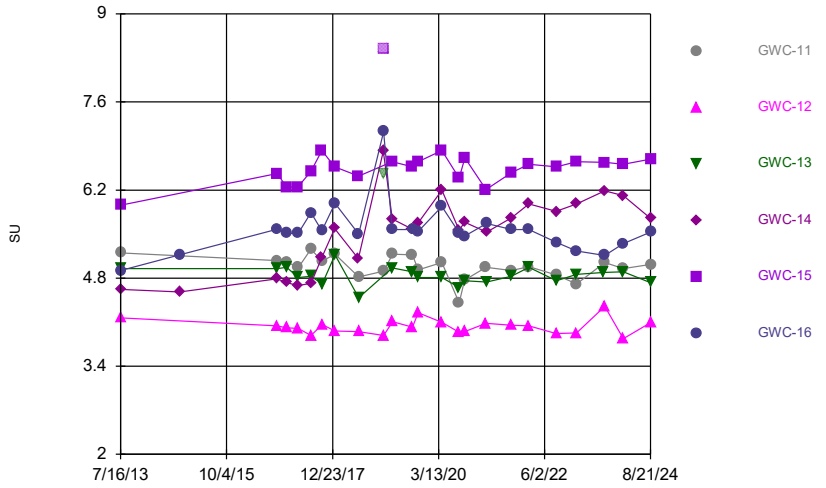


Constituent: pH Analysis Run 12/12/2024 1:58 PM

Grumman Road Landfill Client: Southern Company Data: Grumman Road Landfill

Sanitas™ v.10.0.23a Software licensed to Groundwater Stats Consulting. UG

Time Series

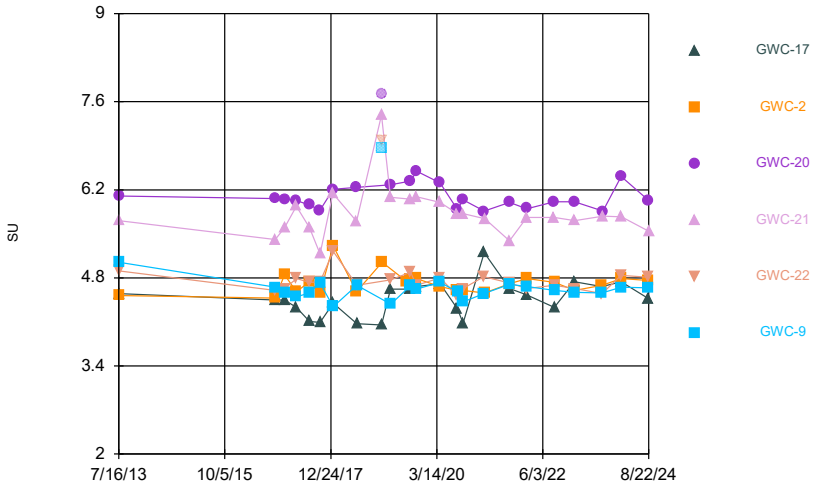


Constituent: pH Analysis Run 12/12/2024 1:58 PM

Grumman Road Landfill Client: Southern Company Data: Grumman Road Landfill

Sanitas™ v.10.0.23a Software licensed to Groundwater Stats Consulting. UG

Time Series

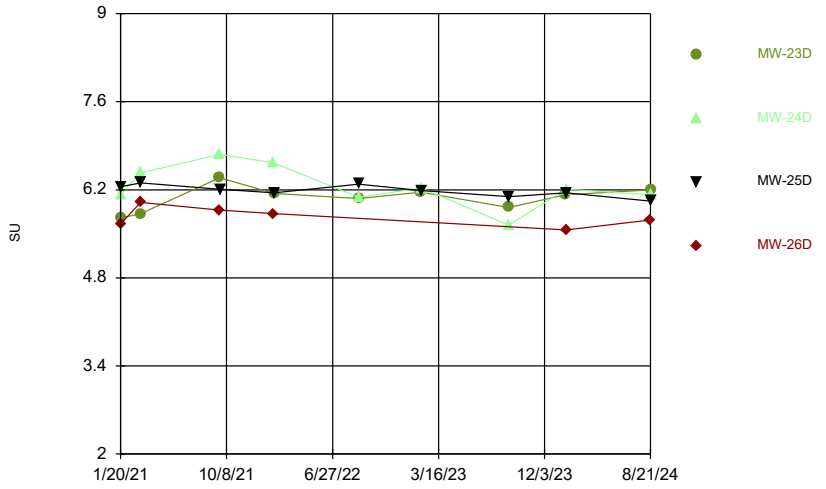


Constituent: pH Analysis Run 12/12/2024 1:58 PM

Grumman Road Landfill Client: Southern Company Data: Grumman Road Landfill

Sanitas™ v.10.0.23a Software licensed to Groundwater Stats Consulting. UG

Time Series

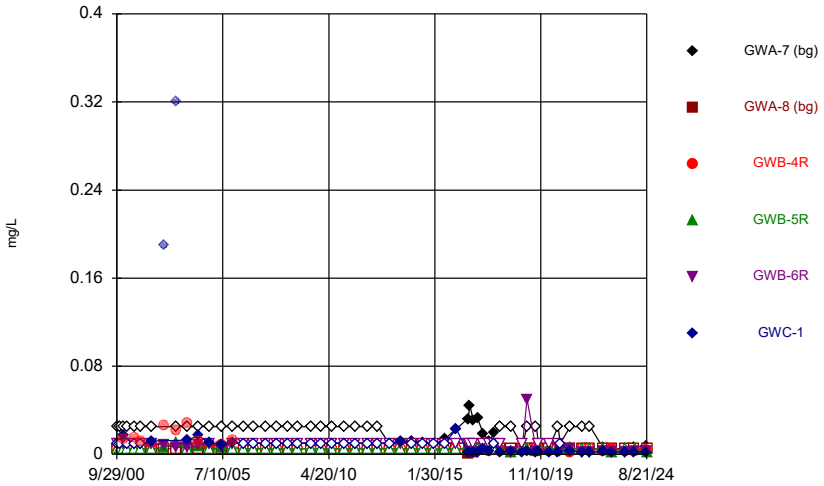


Constituent: pH Analysis Run 12/12/2024 1:58 PM

Grumman Road Landfill Client: Southern Company Data: Grumman Road Landfill

Sanitas™ v.10.0.23a Software licensed to Groundwater Stats Consulting. UG
Hollow symbols indicate censored values.

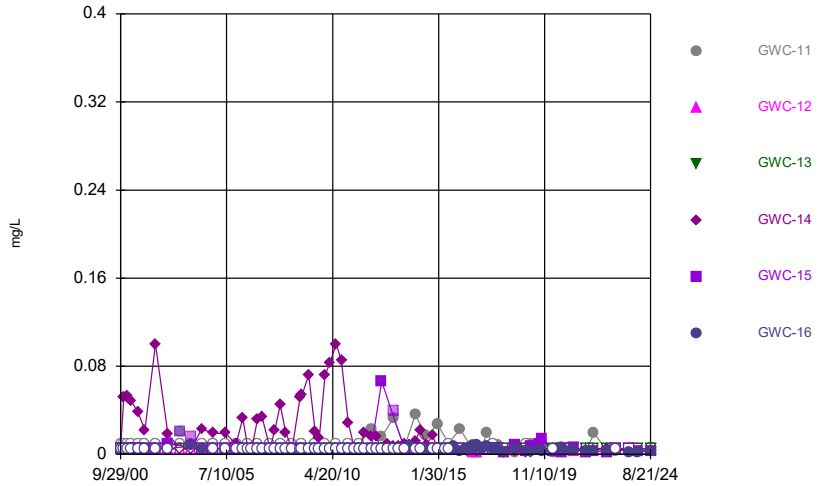
Time Series



Constituent: Selenium Analysis Run 12/12/2024 1:58 PM
Grumman Road Landfill Client: Southern Company Data: Grumman Road Landfill

Sanitas™ v.10.0.23a Software licensed to Groundwater Stats Consulting. UG
Hollow symbols indicate censored values.

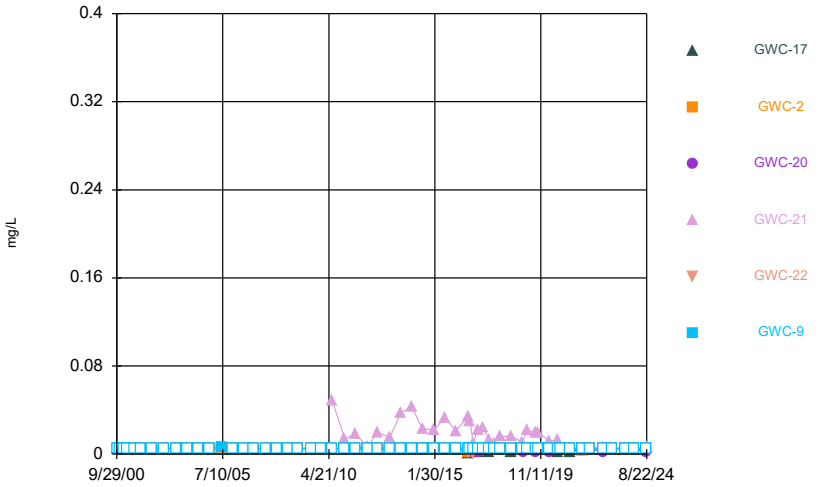
Time Series



Constituent: Selenium Analysis Run 12/12/2024 1:58 PM
Grumman Road Landfill Client: Southern Company Data: Grumman Road Landfill

Sanitas™ v.10.0.23a Software licensed to Groundwater Stats Consulting. UG
Hollow symbols indicate censored values.

Time Series



Constituent: Selenium Analysis Run 12/12/2024 1:58 PM
Grumman Road Landfill Client: Southern Company Data: Grumman Road Landfill

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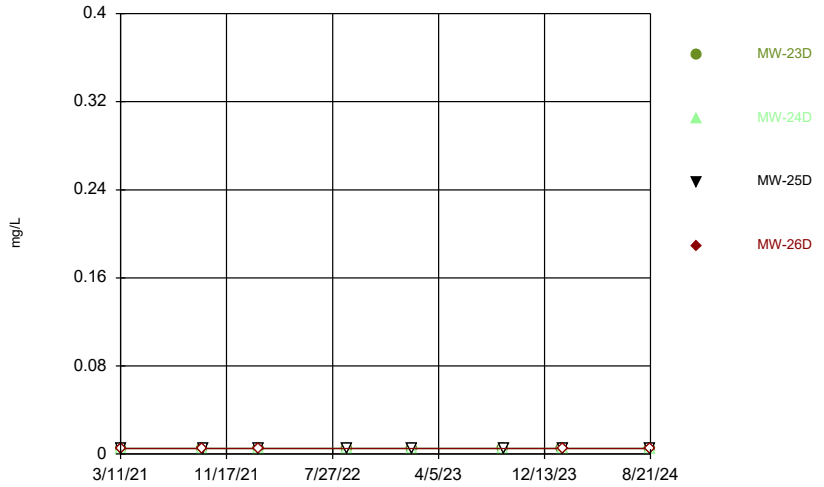
Hollow symbols indicate censored values.

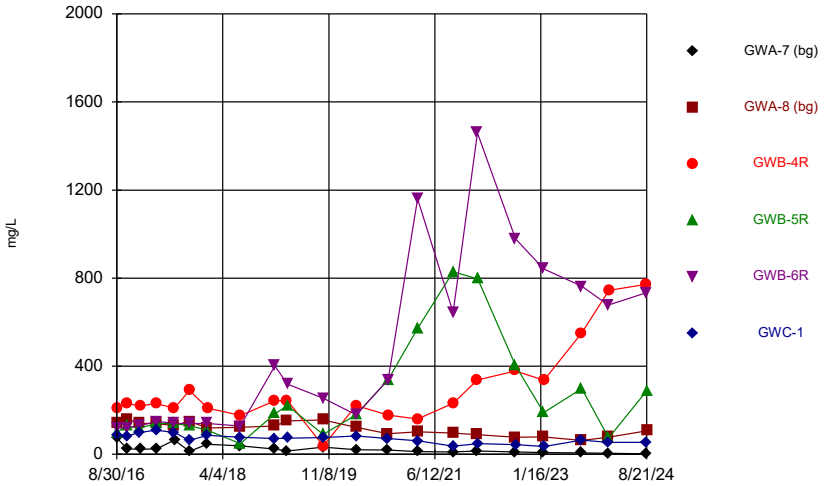
Time Series



Constituent: Selenium Analysis Run 12/12/2024 1:58 PM
Grumman Road Landfill Client: Southern Company Data: Grumman Road Landfill

Sanitas™ v.10.0.23a Software licensed to Groundwater Stats Consulting. UG

Time Series

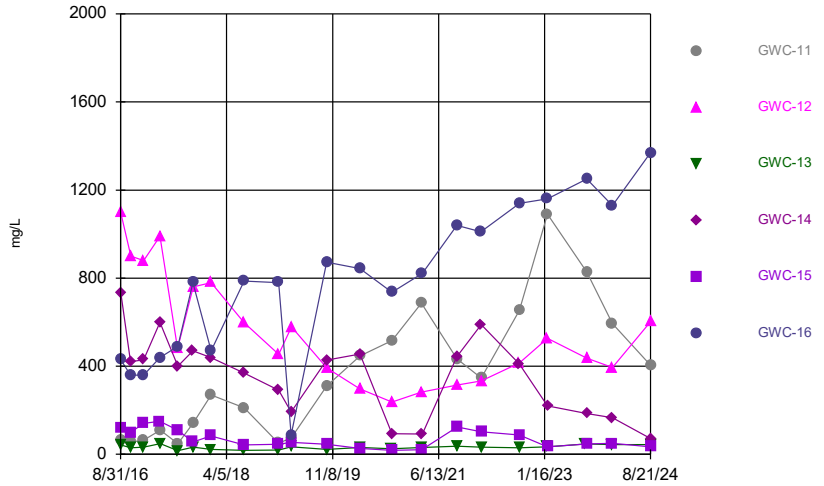


Constituent: Sulfate Analysis Run 12/12/2024 1:58 PM

Grumman Road Landfill Client: Southern Company Data: Grumman Road Landfill

Sanitas™ v.10.0.23a Software licensed to Groundwater Stats Consulting. UG

Time Series

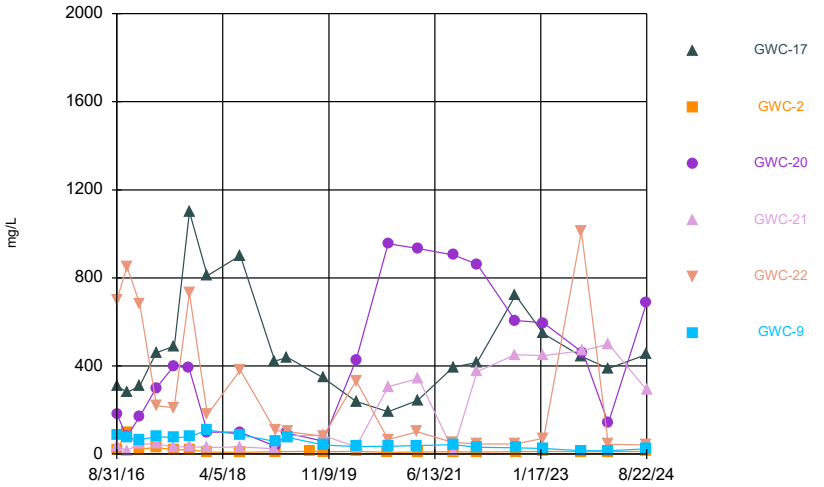


Constituent: Sulfate Analysis Run 12/12/2024 1:58 PM

Grumman Road Landfill Client: Southern Company Data: Grumman Road Landfill

Sanitas™ v.10.0.23a Software licensed to Groundwater Stats Consulting. UG

Time Series

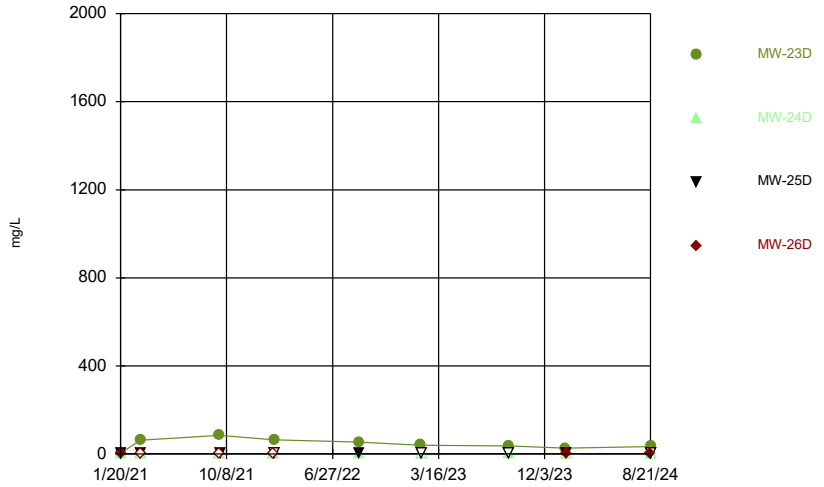


Constituent: Sulfate Analysis Run 12/12/2024 1:58 PM

Grumman Road Landfill Client: Southern Company Data: Grumman Road Landfill

Sanitas™ v.10.0.23a Software licensed to Groundwater Stats Consulting. UG
Hollow symbols indicate censored values.

Time Series

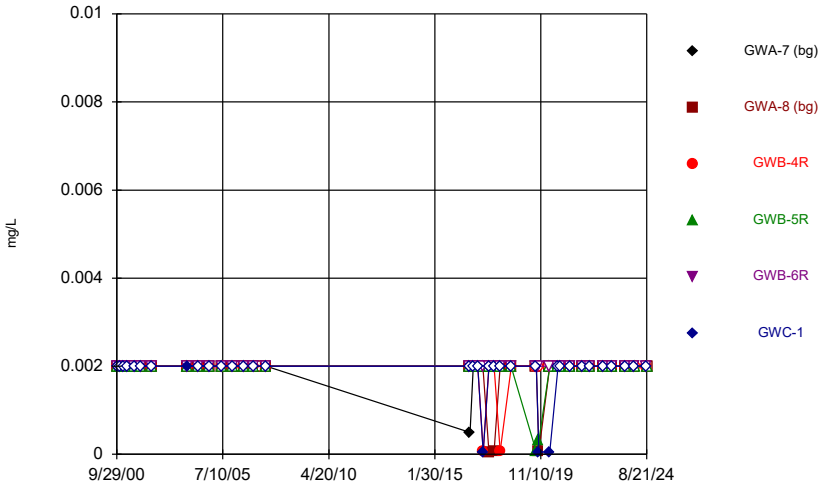


Constituent: Sulfate Analysis Run 12/12/2024 1:58 PM

Grumman Road Landfill Client: Southern Company Data: Grumman Road Landfill

Sanitas™ v.10.0.23a Software licensed to Groundwater Stats Consulting. UG
Hollow symbols indicate censored values.

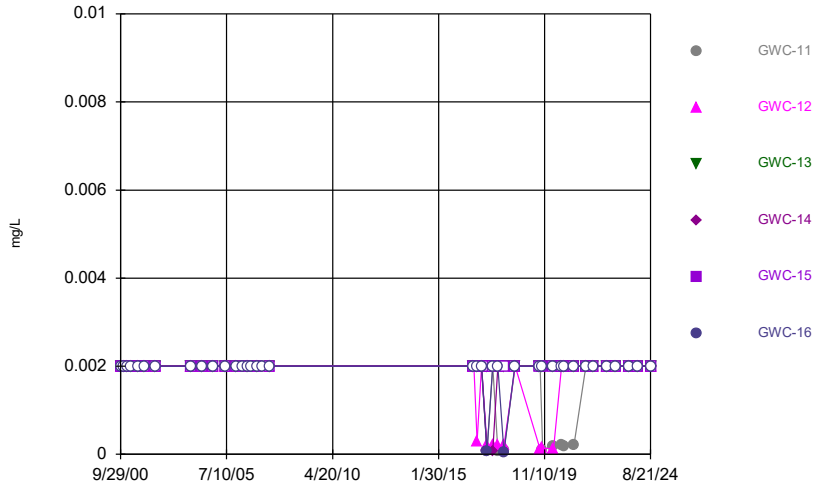
Time Series



Constituent: Thallium Analysis Run 12/12/2024 1:58 PM
Grumman Road Landfill Client: Southern Company Data: Grumman Road Landfill

Sanitas™ v.10.0.23a Software licensed to Groundwater Stats Consulting. UG
Hollow symbols indicate censored values.

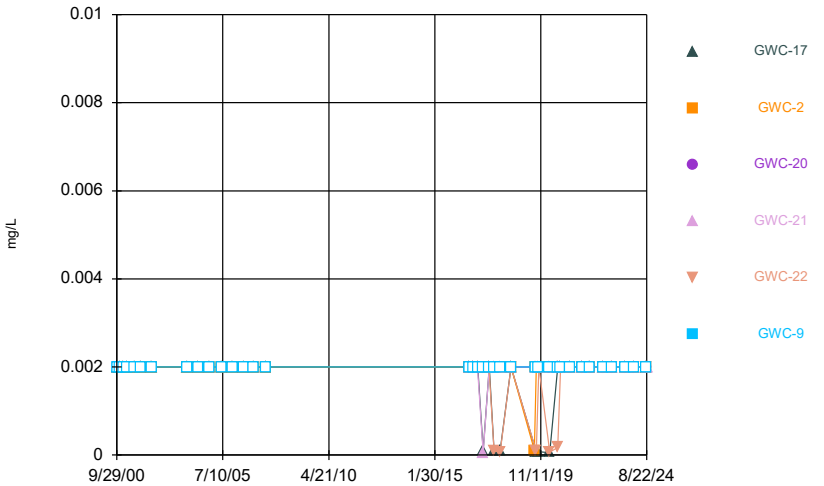
Time Series



Constituent: Thallium Analysis Run 12/12/2024 1:58 PM
Grumman Road Landfill Client: Southern Company Data: Grumman Road Landfill

Sanitas™ v.10.0.23a Software licensed to Groundwater Stats Consulting. UG
Hollow symbols indicate censored values.

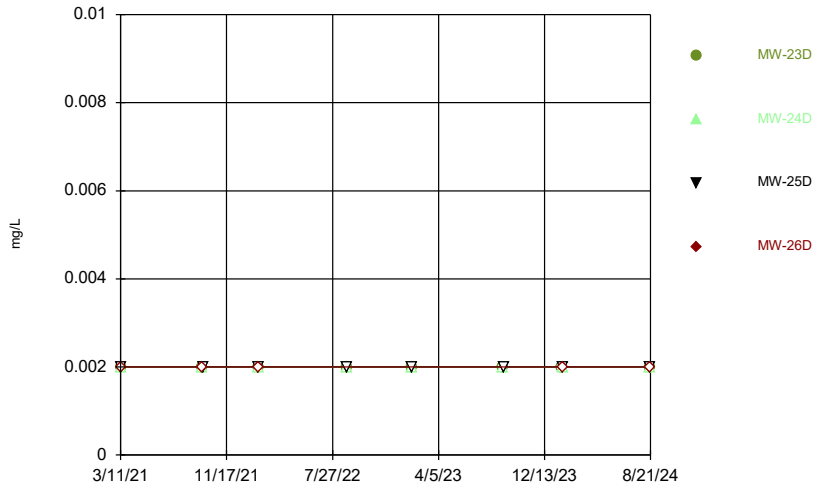
Time Series



Constituent: Thallium Analysis Run 12/12/2024 1:58 PM
Grumman Road Landfill Client: Southern Company Data: Grumman Road Landfill

Sanitas™ v.10.0.23a Software licensed to Groundwater Stats Consulting. UG
Hollow symbols indicate censored values.

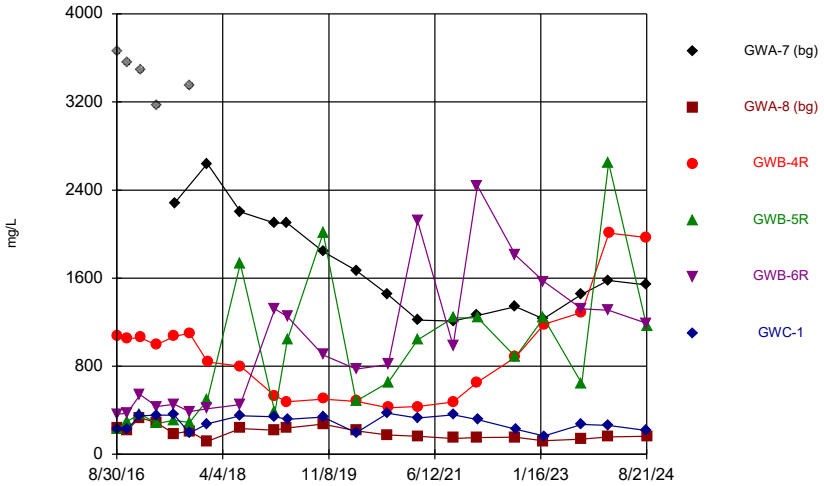
Time Series



Constituent: Thallium Analysis Run 12/12/2024 1:58 PM
Grumman Road Landfill Client: Southern Company Data: Grumman Road Landfill

Sanitas™ v.10.0.23a Software licensed to Groundwater Stats Consulting. UG

Time Series



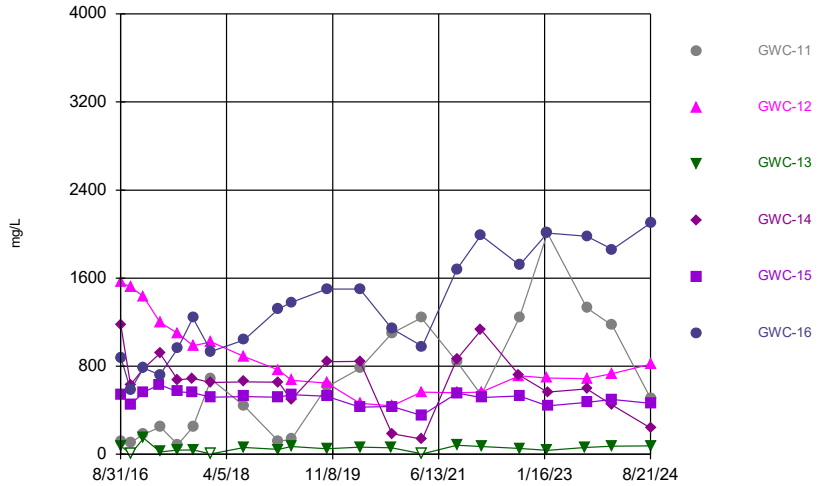
Constituent: Total Dissolved Solids Analysis Run 12/12/2024 1:58 PM

Grumman Road Landfill Client: Southern Company Data: Grumman Road Landfill

Sanitas™ v.10.0.23a Software licensed to Groundwater Stats Consulting. UG

Hollow symbols indicate censored values.

Time Series



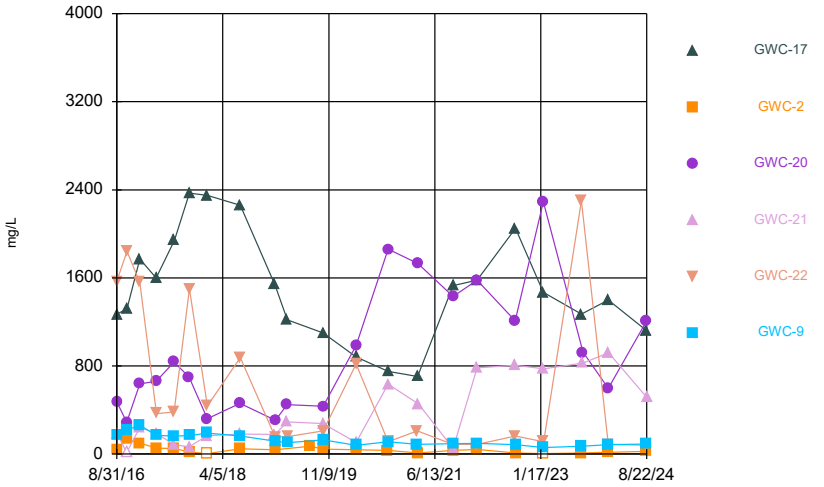
Constituent: Total Dissolved Solids Analysis Run 12/12/2024 1:59 PM

Grumman Road Landfill Client: Southern Company Data: Grumman Road Landfill

Sanitas™ v.10.0.23a Software licensed to Groundwater Stats Consulting. UG

Hollow symbols indicate censored values.

Time Series

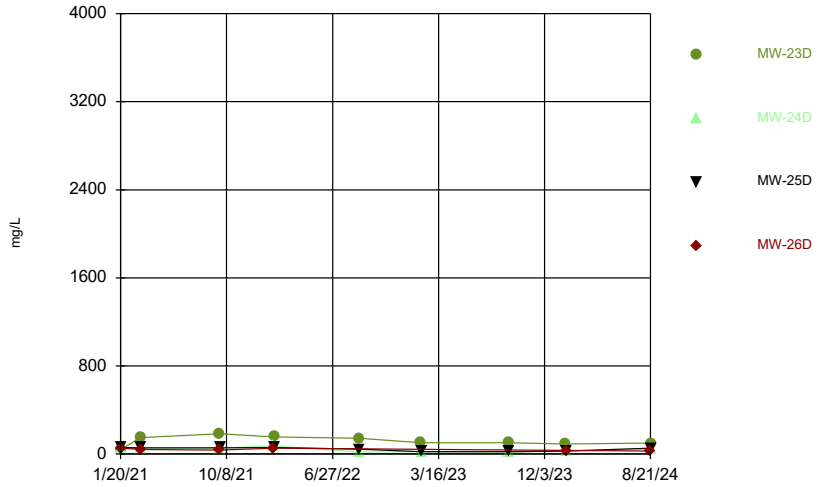


Constituent: Total Dissolved Solids Analysis Run 12/12/2024 1:59 PM

Grumman Road Landfill Client: Southern Company Data: Grumman Road Landfill

Sanitas™ v.10.0.23a Software licensed to Groundwater Stats Consulting. UG

Time Series

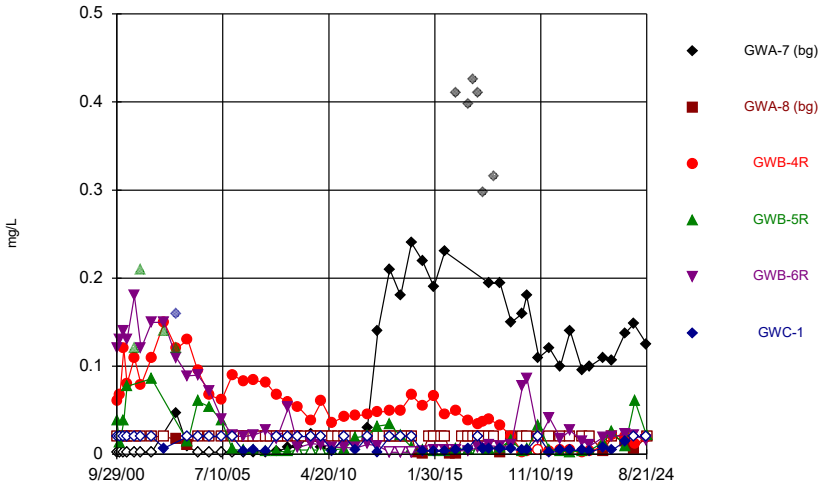


Constituent: Total Dissolved Solids Analysis Run 12/12/2024 1:59 PM

Grumman Road Landfill Client: Southern Company Data: Grumman Road Landfill

Sanitas™ v.10.0.23a Software licensed to Groundwater Stats Consulting. UG
Hollow symbols indicate censored values.

Time Series

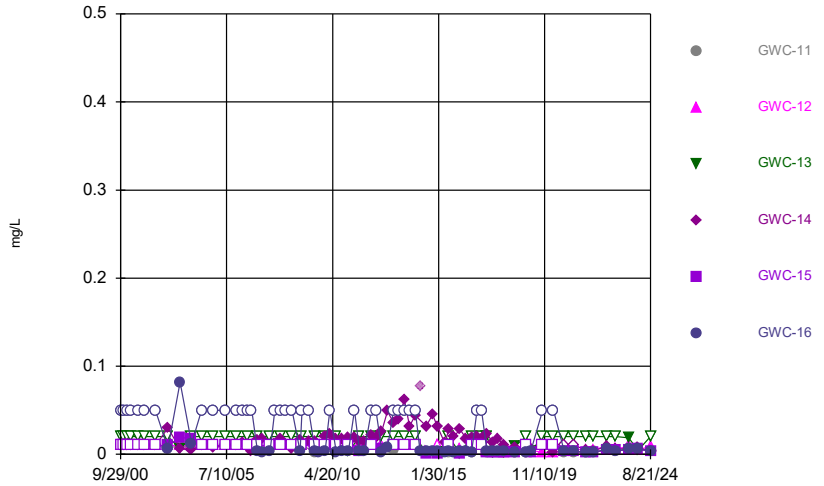


Constituent: Vanadium Analysis Run 12/12/2024 1:59 PM

Grumman Road Landfill Client: Southern Company Data: Grumman Road Landfill

Sanitas™ v.10.0.23a Software licensed to Groundwater Stats Consulting. UG
Hollow symbols indicate censored values.

Time Series

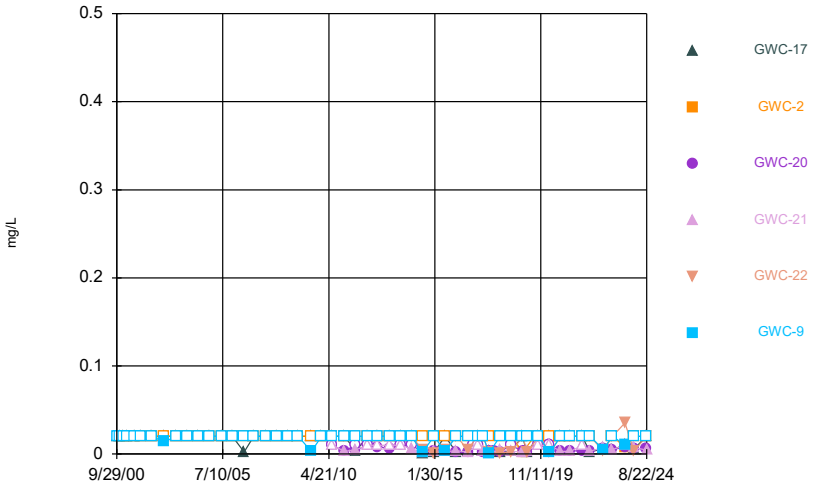


Constituent: Vanadium Analysis Run 12/12/2024 1:59 PM

Grumman Road Landfill Client: Southern Company Data: Grumman Road Landfill

Sanitas™ v.10.0.23a Software licensed to Groundwater Stats Consulting. UG
Hollow symbols indicate censored values.

Time Series

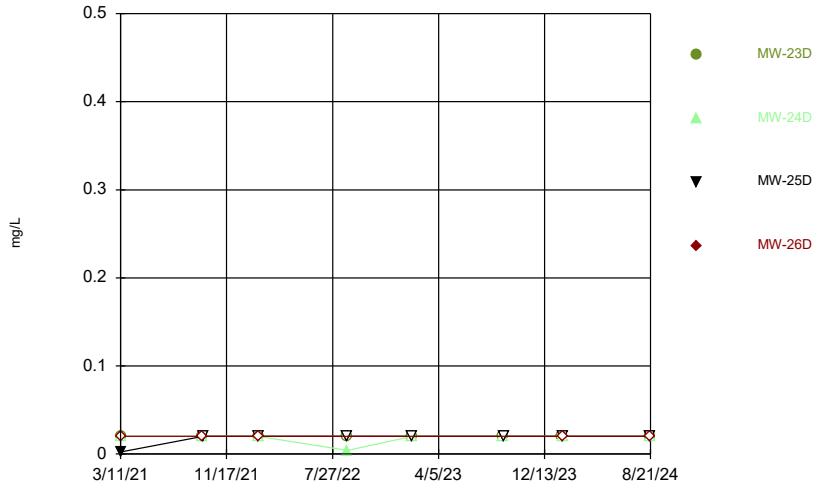


Constituent: Vanadium Analysis Run 12/12/2024 1:59 PM

Grumman Road Landfill Client: Southern Company Data: Grumman Road Landfill

Sanitas™ v.10.0.23a Software licensed to Groundwater Stats Consulting. UG
Hollow symbols indicate censored values.

Time Series

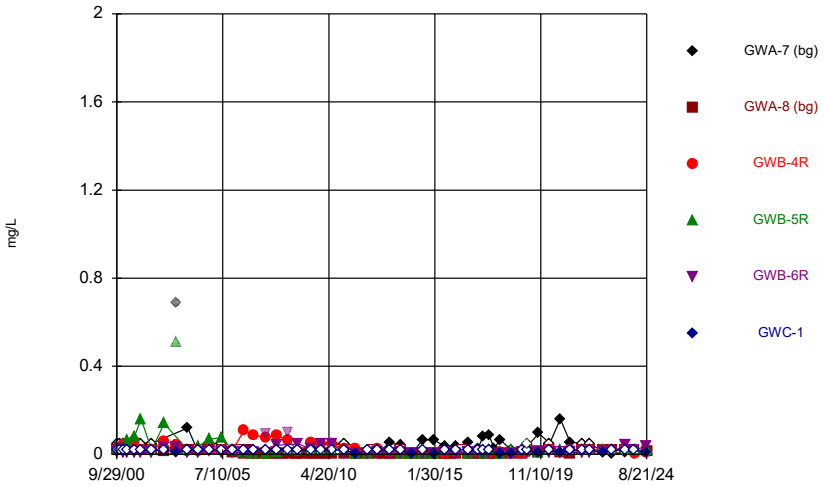


Constituent: Vanadium Analysis Run 12/12/2024 1:59 PM

Grumman Road Landfill Client: Southern Company Data: Grumman Road Landfill

Sanitas™ v.10.0.23a Software licensed to Groundwater Stats Consulting. UG
Hollow symbols indicate censored values.

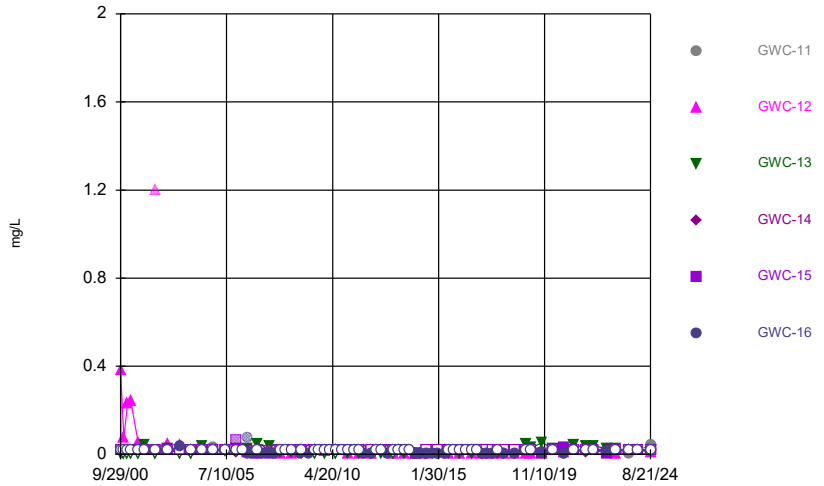
Time Series



Constituent: Zinc Analysis Run 12/12/2024 1:59 PM
Grumman Road Landfill Client: Southern Company Data: Grumman Road Landfill

Sanitas™ v.10.0.23a Software licensed to Groundwater Stats Consulting. UG
Hollow symbols indicate censored values.

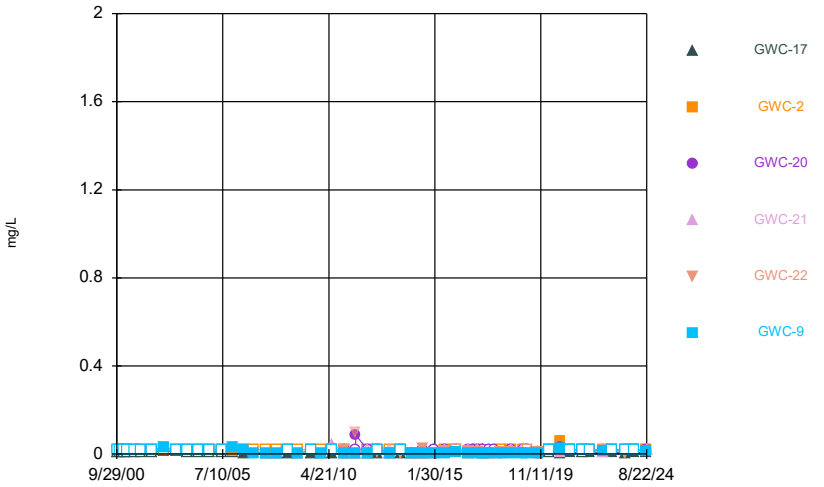
Time Series



Constituent: Zinc Analysis Run 12/12/2024 1:59 PM
Grumman Road Landfill Client: Southern Company Data: Grumman Road Landfill

Sanitas™ v.10.0.23a Software licensed to Groundwater Stats Consulting. UG
Hollow symbols indicate censored values.

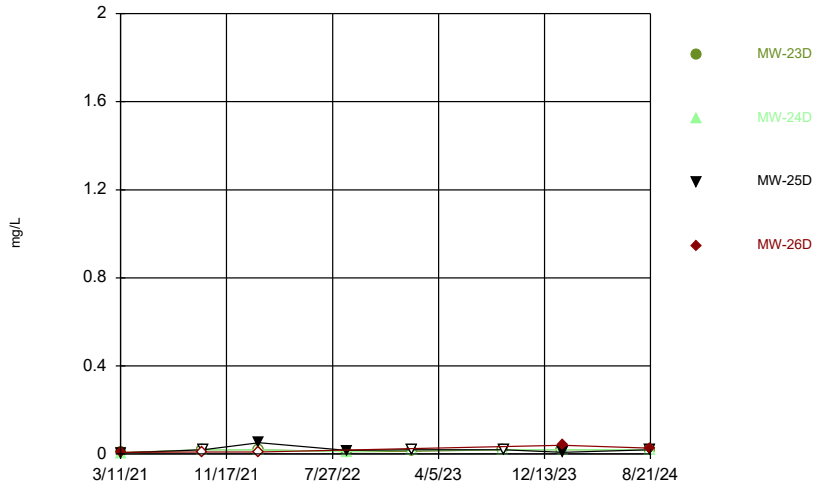
Time Series



Constituent: Zinc Analysis Run 12/12/2024 1:59 PM
Grumman Road Landfill Client: Southern Company Data: Grumman Road Landfill

Sanitas™ v.10.0.23a Software licensed to Groundwater Stats Consulting. UG
Hollow symbols indicate censored values.

Time Series



Constituent: Zinc Analysis Run 12/12/2024 1:59 PM
Grumman Road Landfill Client: Southern Company Data: Grumman Road Landfill

Time Series

Constituent: Antimony (mg/L) Analysis Run 12/12/2024 2:01 PM

Grumman Road Landfill Client: Southern Company Data: Grumman Road Landfill

	GWA-7 (bg)	GWA-8 (bg)	GWB-4R	GWB-5R	GWB-6R	GWC-1
9/29/2000	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003
11/21/2000	<0.003		<0.003	<0.003	<0.003	<0.003
1/20/2001	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003
3/14/2001	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003
7/16/2001	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003
11/1/2001	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003
4/25/2002	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003
11/20/2002		<0.003	<0.003	<0.003	<0.003	<0.003
6/6/2003	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003
12/12/2003	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003
5/26/2004	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003
12/7/2004	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003
6/21/2005	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003
12/12/2005	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003
4/4/2006		<0.003				
6/27/2006	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003
8/30/2006		<0.003				
12/4/2006	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003
2/15/2007		<0.003				
6/23/2007	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003
9/11/2007		<0.003				
12/11/2007	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003
3/11/2008		<0.003				
6/23/2008	<0.003	<0.003				
6/24/2008			<0.003	<0.003	<0.003	<0.003
11/3/2008		<0.003				
12/4/2008	<0.003	<0.003				
12/5/2008			<0.003	<0.003	<0.003	<0.003
3/25/2009		<0.003				
7/7/2009	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003
9/14/2009		<0.003				
12/20/2009	<0.003	<0.003				<0.003
12/21/2009			<0.003	<0.003	<0.003	
3/4/2010		<0.003				
6/20/2010	<0.003	<0.003		<0.003	<0.003	<0.003
6/21/2010			<0.003			
9/14/2010		<0.003				
1/6/2011				<0.003		<0.003
1/7/2011	<0.003	<0.003	<0.003		<0.003	
4/15/2011		<0.003				
7/7/2011	<0.003	<0.003		<0.003	<0.003	<0.003
7/8/2011			<0.003			
9/25/2011		<0.003				
1/17/2012	<0.003	<0.003		<0.003		<0.003
1/18/2012			<0.003		<0.003	
4/4/2012		<0.003				
7/9/2012	<0.003			<0.003		<0.003
7/10/2012		<0.003	<0.003		<0.003	
10/9/2012		<0.003				
1/17/2013				<0.003		<0.003
1/18/2013	<0.003	<0.003	<0.003		<0.003	
4/5/2013		<0.003				

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Antimony (mg/L) Analysis Run 12/12/2024 2:01 PM

Grumman Road Landfill Client: Southern Company Data: Grumman Road Landfill

	GWA-7 (bg)	GWA-8 (bg)	GWB-4R	GWB-5R	GWB-6R	GWC-1
7/16/2013				<0.003		<0.003
7/17/2013	<0.003	<0.003	<0.003		<0.003	
10/11/2013		<0.003				
1/13/2014	<0.003			<0.003		<0.003
1/14/2014		<0.003	<0.003		<0.003	
4/3/2014		<0.003				
7/9/2014	0.0022 (J)	<0.003	0.002 (J)	<0.003	<0.003	<0.003
10/24/2014		<0.003				
1/12/2015			<0.003			
1/13/2015	<0.003			<0.003		<0.003
1/14/2015		<0.003			<0.003	
5/10/2015		<0.003				
7/16/2015	0.0028 (J)		0.0021 (J)	<0.003		<0.003
7/17/2015		<0.003			<0.003	
10/6/2015		<0.003				
1/17/2016						<0.003
1/18/2016	<0.003	<0.003	<0.003	<0.003	<0.003	
4/26/2016		<0.003				
7/27/2016	<0.003			<0.003		<0.003
7/28/2016		<0.003			<0.003	
7/29/2016			0.0003 (J)			
8/30/2016		<0.003		<0.003	<0.003	<0.003
9/1/2016	0.0017 (J)		<0.003			
10/24/2016		<0.003				
10/25/2016	<0.003					<0.003
10/26/2016			<0.003	<0.003	<0.003	
1/3/2017		<0.003		<0.003		
1/4/2017						<0.003
1/5/2017					<0.003	
1/6/2017	0.0009 (J)		<0.003			
4/3/2017		<0.003				
4/4/2017			<0.003			<0.003
4/6/2017	<0.003			<0.003	<0.003	
7/11/2017		<0.003				
7/12/2017			<0.003	<0.003	<0.003	<0.003
7/13/2017	0.0013 (J)					
10/2/2017		<0.003				
10/3/2017				<0.003	<0.003	<0.003
10/4/2017	0.0008 (J)		<0.003			
1/9/2018	<0.003	<0.003			<0.003	
1/10/2018				<0.003		<0.003
1/11/2018			<0.003			
7/9/2018		<0.003				
7/10/2018				<0.003	<0.003	<0.003
7/11/2018	<0.003		<0.003			
1/16/2019	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003
3/25/2019	<0.003	<0.003	<0.003			
3/26/2019				<0.003	<0.003	<0.003
8/26/2019	<0.003	<0.003				
8/27/2019			<0.003		<0.003	<0.003
8/28/2019				0.00054 (J)		
10/7/2019		<0.003				

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Antimony (mg/L) Analysis Run 12/12/2024 2:01 PM

Grumman Road Landfill Client: Southern Company Data: Grumman Road Landfill

	GWA-7 (bg)	GWA-8 (bg)	GWB-4R	GWB-5R	GWB-6R	GWC-1
10/8/2019	<0.003					
10/9/2019			<0.003	<0.003	<0.003	<0.003
4/6/2020	<0.003	<0.003				
4/7/2020			<0.003	<0.003	<0.003	<0.003
8/17/2020		<0.003				
8/19/2020	<0.003		<0.003	<0.003	<0.003	0.00061 (J)
9/28/2020	<0.003	<0.003				0.00035 (J)
9/30/2020				0.0003 (J)	0.00059 (J)	
10/1/2020			<0.003			
3/10/2021			<0.003	<0.003	0.00029 (J)	0.00069 (J)
3/11/2021	<0.003					
3/12/2021		<0.003				
9/21/2021	<0.003	<0.003	<0.003	0.0013 (J)	<0.003	
9/23/2021						0.0016 (J)
1/31/2022	<0.003	<0.003				
2/2/2022			<0.003		<0.003	
2/3/2022				<0.003		<0.003
8/30/2022	<0.003	<0.003	<0.003	<0.003	<0.003	
9/1/2022						<0.003
1/31/2023	<0.003	<0.003				
2/1/2023				<0.003	<0.003	
2/2/2023			<0.003			<0.003
8/28/2023	<0.003	<0.003				
8/29/2023			<0.003	<0.003	<0.003	<0.003
1/23/2024	<0.003	<0.003			<0.003	<0.003
2/7/2024			<0.003			
2/8/2024				<0.003		
8/19/2024	<0.003					
8/20/2024			<0.003		<0.003	<0.003
8/21/2024		<0.003		<0.003		

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Antimony (mg/L) Analysis Run 12/12/2024 2:01 PM

Grumman Road Landfill Client: Southern Company Data: Grumman Road Landfill

	GWC-11	GWC-12	GWC-13	GWC-14	GWC-15	GWC-16
9/29/2000	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003
11/21/2000	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003
1/20/2001	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003
3/14/2001	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003
7/16/2001	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003
11/1/2001	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003
4/25/2002	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003
11/20/2002	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003
6/6/2003	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003
12/12/2003	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003
5/26/2004	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003
12/7/2004	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003
6/21/2005	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003
12/12/2005	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003
4/4/2006				<0.003		<0.003
6/27/2006	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003
8/30/2006				<0.003		<0.003
12/4/2006	<0.003	<0.003	<0.003	<0.003	<0.003	0.006
2/15/2007				<0.003		<0.003
6/23/2007	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003
9/11/2007				<0.003		<0.003
12/11/2007	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003
3/11/2008				<0.003		<0.003
6/23/2008	<0.003	<0.003	<0.003			
6/24/2008				<0.003	<0.003	<0.003
11/3/2008				<0.003		<0.003
12/4/2008	<0.003	<0.003	<0.003	<0.003		
12/5/2008					<0.003	<0.003
3/25/2009				<0.003		<0.003
7/8/2009	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003
9/14/2009				<0.003		<0.003
12/20/2009				<0.003	<0.003	<0.003
12/21/2009	<0.003	<0.003	<0.003			
3/4/2010				<0.003		<0.003
6/20/2010	<0.003	<0.003	<0.003	<0.003	<0.003	
6/21/2010						<0.003
9/14/2010				<0.003		<0.003
1/6/2011	<0.003		<0.003			
1/7/2011		<0.003		<0.003	<0.003	<0.003
4/15/2011				<0.003		<0.003
7/7/2011	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003
9/25/2011				<0.003		<0.003
1/17/2012	<0.003	<0.003	<0.003	<0.003	<0.003	
1/18/2012						<0.003
4/4/2012				<0.003		<0.003
7/9/2012	<0.003	<0.003	<0.003	<0.003	<0.003	
7/10/2012						<0.003
10/9/2012				<0.003		<0.003
1/17/2013	<0.003	<0.003	<0.003			
1/18/2013				<0.003	<0.003	<0.003
4/5/2013				<0.003		<0.003
7/16/2013	<0.003	<0.003	<0.003			

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Antimony (mg/L) Analysis Run 12/12/2024 2:01 PM

Grumman Road Landfill Client: Southern Company Data: Grumman Road Landfill

	GWC-11	GWC-12	GWC-13	GWC-14	GWC-15	GWC-16
7/17/2013				<0.003	<0.003	<0.003
10/11/2013				0.005		<0.003
1/13/2014	<0.003	<0.003	<0.003		<0.003	
1/14/2014				<0.003		<0.003
4/3/2014				<0.003		<0.003
7/8/2014	<0.003	<0.003	<0.003			
7/9/2014				<0.003	<0.003	<0.003
10/24/2014				<0.003		<0.003
1/13/2015	<0.003	<0.003	<0.003		<0.003	
1/14/2015				<0.003		<0.003
5/10/2015				<0.003		
5/11/2015						<0.003
7/16/2015	<0.003	<0.003	<0.003		<0.003	<0.003
7/17/2015				<0.003		
10/6/2015				<0.003		<0.003
1/17/2016				<0.003	<0.003	<0.003
1/18/2016		<0.003	<0.003			
1/19/2016	<0.003					
4/26/2016				<0.003		<0.003
7/26/2016	0.0005 (J)		0.0006 (J)			
7/27/2016		<0.003		<0.003	<0.003	
7/28/2016						<0.003
8/31/2016	<0.003	<0.003	<0.003			
9/1/2016				<0.003	<0.003	<0.003
10/25/2016				<0.003	<0.003	<0.003
10/26/2016	<0.003	<0.003	<0.003			
1/4/2017	<0.003	<0.003				<0.003
1/5/2017			<0.003	<0.003	<0.003	
4/3/2017					<0.003	
4/4/2017				<0.003		
4/5/2017		<0.003				<0.003
4/6/2017	0.0006 (J)		<0.003			
7/10/2017		<0.003				
7/11/2017	0.0009 (J)			<0.003	<0.003	
7/12/2017			<0.003			<0.003
10/2/2017				<0.003	<0.003	
10/3/2017	<0.003					<0.003
10/4/2017		<0.003	<0.003			
1/9/2018				<0.003	<0.003	
1/10/2018			<0.003			<0.003
1/11/2018	0.0007 (J)	<0.003				
7/9/2018				<0.003		
7/10/2018					<0.003	<0.003
7/11/2018	<0.003	<0.003	<0.003			
1/16/2019			<0.003	<0.003		
1/17/2019	<0.003	<0.003			<0.003	<0.003
3/26/2019			<0.003	<0.003	<0.003	<0.003
3/27/2019	<0.003	<0.003				
8/27/2019	0.00033 (J)	<0.003	<0.003	<0.003	<0.003	
8/28/2019						<0.003
10/8/2019	0.00046 (J)		<0.003	<0.003	<0.003	<0.003
10/9/2019		<0.003				

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Antimony (mg/L) Analysis Run 12/12/2024 2:01 PM

Grumman Road Landfill Client: Southern Company Data: Grumman Road Landfill

	GWC-11	GWC-12	GWC-13	GWC-14	GWC-15	GWC-16
4/7/2020	0.00066 (J)	<0.003		<0.003	<0.003	<0.003
4/8/2020			<0.003			
8/17/2020		<0.003	<0.003			
8/18/2020	0.00064 (J)			<0.003	<0.003	<0.003
9/28/2020			<0.003			
9/29/2020	0.00051 (J)	<0.003		<0.003		
9/30/2020					<0.003	<0.003
3/10/2021	0.00076 (J)	0.0003 (J)				
3/12/2021					0.0018 (J)	
3/15/2021			<0.003			
3/16/2021				<0.003		<0.003
9/21/2021	<0.003	<0.003	<0.003			
9/22/2021				<0.003		<0.003
9/23/2021					<0.003	
2/1/2022						<0.003
2/2/2022				<0.003		
2/3/2022	<0.003	<0.003	<0.003		<0.003	
8/30/2022		<0.003		<0.003		
8/31/2022	<0.003		<0.003		<0.003	
9/1/2022						<0.003
2/1/2023	<0.003	<0.003	<0.003			<0.003
2/2/2023				<0.003	<0.003	
8/29/2023			<0.003			
9/6/2023	<0.003	<0.003		<0.003		<0.003
9/7/2023					<0.003	
1/24/2024	<0.003				<0.003	
1/25/2024		<0.003	<0.003	<0.003		<0.003
8/21/2024	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Antimony (mg/L) Analysis Run 12/12/2024 2:01 PM

Grumman Road Landfill Client: Southern Company Data: Grumman Road Landfill

	GWC-17	GWC-2	GWC-20	GWC-21	GWC-22	GWC-9
9/29/2000	<0.003					<0.003
11/21/2000	<0.003	<0.003				<0.003
1/20/2001	<0.003	<0.003				<0.003
3/14/2001	<0.003	<0.003				<0.003
7/16/2001	<0.003	<0.003				<0.003
11/1/2001	<0.003	<0.003				<0.003
4/25/2002	<0.003	<0.003				<0.003
11/20/2002	<0.003	<0.003				<0.003
6/6/2003	<0.003	<0.003				<0.003
12/12/2003	<0.003	<0.003				<0.003
5/26/2004	<0.003	<0.003				<0.003
12/7/2004	<0.003	<0.003				<0.003
6/21/2005	<0.003	<0.003				<0.003
12/12/2005	<0.003	<0.003				<0.003
6/27/2006	<0.003	<0.003				<0.003
12/4/2006	<0.003	<0.003				<0.003
6/23/2007	<0.003	<0.003				<0.003
12/11/2007	<0.003	<0.003				<0.003
6/23/2008						<0.003
6/24/2008	<0.003	<0.003				
12/4/2008		<0.003				<0.003
12/5/2008	<0.003					
7/8/2009	<0.003	<0.003				<0.003
12/20/2009		<0.003				
12/21/2009	<0.003					<0.003
6/20/2010		<0.003				<0.003
6/21/2010	<0.003		<0.003	<0.003	<0.003	
1/6/2011		<0.003				
1/7/2011	<0.003		<0.003	<0.003	<0.003	<0.003
7/7/2011			<0.003			
7/8/2011	<0.003		<0.003	<0.003	<0.003	<0.003
1/17/2012		<0.003				
1/18/2012	<0.003		<0.003	<0.003	<0.003	<0.003
7/9/2012		<0.003				
7/10/2012	<0.003		<0.003	<0.003	<0.003	<0.003
1/17/2013		<0.003				
1/18/2013	<0.003		<0.003	<0.003	<0.003	<0.003
7/17/2013	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003
1/13/2014		<0.003				
1/14/2014	<0.003		<0.003	<0.003	<0.003	<0.003
7/9/2014	<0.003	<0.003		<0.003		<0.003
7/10/2014			<0.003		<0.003	
1/12/2015			<0.003			
1/13/2015		<0.003				
1/14/2015	<0.003			<0.003	<0.003	<0.003
7/16/2015		<0.003				
7/17/2015				<0.003		<0.003
7/18/2015	<0.003		<0.003		<0.003	
1/17/2016		<0.003	<0.003	<0.003		
1/18/2016	<0.003				<0.003	<0.003
7/27/2016		<0.003				
7/28/2016			0.0019 (J)	<0.003		<0.003

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Antimony (mg/L) Analysis Run 12/12/2024 2:01 PM

Grumman Road Landfill Client: Southern Company Data: Grumman Road Landfill

	GWC-17	GWC-2	GWC-20	GWC-21	GWC-22	GWC-9
7/29/2016	<0.003				<0.003	
8/31/2016		<0.003			<0.003	<0.003
9/1/2016	<0.003		<0.003	<0.003		
10/25/2016			<0.003	<0.003		
10/26/2016	<0.003	<0.003			<0.003	
10/27/2016						0.0016 (J)
1/4/2017			<0.003	<0.003	<0.003	
1/5/2017	<0.003	<0.003				
1/6/2017						<0.003
4/4/2017		<0.003	<0.003	<0.003		
4/5/2017	<0.003					
4/6/2017					<0.003	<0.003
7/11/2017			<0.003		<0.003	
7/12/2017						<0.003
7/13/2017	<0.003	<0.003		<0.003		
10/2/2017			<0.003			
10/3/2017		<0.003		<0.003		
10/4/2017	<0.003				<0.003	<0.003
1/9/2018				<0.003		
1/10/2018		<0.003	<0.003			
1/11/2018	<0.003				<0.003	<0.003
7/9/2018			<0.003			
7/10/2018		<0.003		<0.003		
7/11/2018	<0.003				<0.003	<0.003
1/16/2019	<0.003					
1/17/2019				<0.003		
1/18/2019					<0.003	<0.003
1/21/2019		<0.003	<0.003			
3/25/2019			<0.003			
3/26/2019	<0.003			<0.003		
3/27/2019					<0.003	<0.003
7/30/2019		<0.003				
8/27/2019		<0.003			0.00045 (J)	
8/28/2019	<0.003		<0.003	<0.003		<0.003
10/8/2019				<0.003		
10/9/2019	<0.003	<0.003	<0.003		<0.003	<0.003
4/7/2020				<0.003	0.00049 (J)	
4/8/2020	<0.003	0.0013 (J)	<0.003			0.00033 (J)
8/18/2020	<0.003	<0.003	<0.003	<0.003	0.0022 (J)	
8/19/2020						<0.003
9/29/2020		0.0016 (J)				
9/30/2020	<0.003		<0.003	0.00033 (J)	0.0016 (J)	
10/1/2020						<0.003
3/10/2021					0.0004 (J)	<0.003
3/11/2021	0.00039 (J)					
3/12/2021			0.00065 (J)			
3/15/2021		<0.003				
3/16/2021				<0.003		
9/21/2021					<0.003	
9/22/2021	0.0014 (J)	<0.003	<0.003	<0.003		<0.003
2/1/2022	<0.003		<0.003	<0.003		
2/2/2022		<0.003				<0.003

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Antimony (mg/L) Analysis Run 12/12/2024 2:01 PM

Grumman Road Landfill Client: Southern Company Data: Grumman Road Landfill

	GWC-17	GWC-2	GWC-20	GWC-21	GWC-22	GWC-9
2/3/2022					<0.003	
8/30/2022			<0.003	<0.003		
8/31/2022	<0.003				<0.003	
9/1/2022		<0.003				<0.003
2/1/2023	0.00286 (J)		<0.003			<0.003
2/2/2023		<0.003		<0.003	<0.003	
8/29/2023	<0.003	<0.003			<0.003	<0.003
9/6/2023			<0.003	<0.003		
1/23/2024					<0.003	
1/24/2024	0.00245 (J)		<0.003			<0.003
1/25/2024		<0.003		<0.003		
8/21/2024	<0.003	<0.003	<0.003		<0.003	<0.003
8/22/2024				<0.003		

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Antimony (mg/L) Analysis Run 12/12/2024 2:01 PM

Grumman Road Landfill Client: Southern Company Data: Grumman Road Landfill

	MW-23D	MW-24D	MW-25D	MW-26D
3/11/2021	<0.003	<0.003	<0.003	<0.003
9/21/2021				<0.003
9/22/2021	<0.003	<0.003		
9/23/2021			<0.003	
2/1/2022		<0.003		
2/2/2022				<0.003
2/3/2022	<0.003		<0.003	
8/31/2022	<0.003		<0.003	
9/1/2022		<0.003		
2/1/2023	<0.003			
2/2/2023		<0.003	<0.003	
9/6/2023	<0.003	<0.003		
9/7/2023			<0.003	
1/24/2024	<0.003			
1/25/2024		<0.003	<0.003	<0.003
8/20/2024				<0.003
8/21/2024	<0.003	<0.003	<0.003	

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Arsenic (mg/L) Analysis Run 12/12/2024 2:01 PM

Grumman Road Landfill Client: Southern Company Data: Grumman Road Landfill

	GWA-7 (bg)	GWA-8 (bg)	GWB-4R	GWB-5R	GWB-6R	GWC-1
9/29/2000	<0.025	<0.005	<0.005	<0.005	<0.025	<0.005
11/21/2000	<0.025		<0.005	<0.005	<0.025	<0.005
1/20/2001	<0.025	<0.005	0.01	<0.005	0.014	<0.005
3/14/2001	<0.025	<0.005	<0.005	<0.005	<0.025	<0.005
7/16/2001	<0.025	<0.005	<0.005	0.014	<0.025	<0.005
11/1/2001	<0.025	<0.005	<0.005	0.023	<0.025	<0.005
4/25/2002	<0.025	<0.005	<0.005	<0.005	<0.025	<0.005
11/20/2002		<0.005	0.0096	0.022	0.014	<0.005
6/6/2003	0.02	<0.005	0.0076	0.07	0.014	0.03
12/12/2003	<0.025	<0.005	0.0058	<0.005	<0.025	<0.005
5/26/2004	<0.025	<0.005	0.0068	0.0074	0.0082	<0.005
12/7/2004	<0.025	<0.005	0.0066	0.017	0.0062	<0.005
6/21/2005	<0.025	<0.005	<0.005	0.013	<0.025	<0.005
12/12/2005	<0.025	<0.005	<0.005	<0.005	<0.025	<0.005
4/4/2006		<0.005				
6/27/2006	<0.025	<0.005	<0.005	<0.005	<0.025	<0.005
8/30/2006		<0.005				
12/4/2006	<0.025	<0.005	<0.005	<0.005	<0.025	<0.005
2/15/2007		<0.005				
6/23/2007	<0.025	<0.005	<0.005	<0.005	0.0053	<0.005
9/11/2007		<0.005				
12/11/2007	<0.025	<0.005	<0.005	<0.005	0.0057	<0.005
3/11/2008		<0.005				
6/23/2008	<0.025	<0.005				
6/24/2008			0.005	<0.005	0.012	<0.005
11/3/2008		<0.005				
12/4/2008	<0.025	<0.005				
12/5/2008			<0.005	<0.005	0.0064	<0.005
3/25/2009		<0.005				
7/7/2009	<0.025	<0.005	<0.005	<0.005	<0.025	<0.005
9/14/2009		<0.005				
12/20/2009	<0.025	<0.005				<0.005
12/21/2009			<0.005	<0.005	<0.025	
3/4/2010		<0.005				
6/20/2010	<0.025	<0.005		<0.005	0.017	<0.005
6/21/2010			0.018			
9/14/2010		<0.005				
1/6/2011				<0.005		<0.005
1/7/2011	<0.025	<0.005	<0.005		<0.025	
4/15/2011		<0.005				
7/7/2011	<0.025	<0.005		<0.005	<0.025	<0.005
7/8/2011			<0.005			
9/25/2011		<0.005				
1/17/2012	<0.025	<0.005		<0.005		0.0071
1/18/2012			<0.005		<0.025	
4/4/2012		<0.005				
7/9/2012	0.0052			<0.005		0.0076
7/10/2012		<0.005	0.0052		<0.025	
10/9/2012		<0.005				
1/17/2013				<0.005		0.0086
1/18/2013	0.0087	<0.005	<0.005		<0.025	
4/5/2013		<0.005				

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Arsenic (mg/L) Analysis Run 12/12/2024 2:01 PM

Grumman Road Landfill Client: Southern Company Data: Grumman Road Landfill

	GWA-7 (bg)	GWA-8 (bg)	GWB-4R	GWB-5R	GWB-6R	GWC-1
7/16/2013				<0.005		<0.005
7/17/2013	0.0084	<0.005	<0.005		<0.025	
10/11/2013		<0.005				
1/13/2014	0.009			<0.005		<0.005
1/14/2014		<0.005	<0.005		<0.025	
4/3/2014		<0.005				
7/9/2014	0.008	<0.005	0.0023 (J)	<0.005	<0.025	0.0022 (J)
10/24/2014		<0.005				
1/12/2015			0.0028 (J)			
1/13/2015	0.0077			<0.005		<0.005
1/14/2015		<0.005			<0.025	
5/10/2015		<0.005				
7/16/2015	0.0077		<0.005	<0.005		0.0037 (J)
7/17/2015		<0.005			<0.025	
10/6/2015		<0.005				
1/17/2016						0.024
1/18/2016	0.014	<0.005	<0.005	<0.005	<0.025	
4/26/2016		0.0011 (J)				
7/27/2016	0.0111			0.0008 (J)		0.0046 (J)
7/28/2016		<0.005			0.0009 (J)	
7/29/2016			0.0014 (J)			
8/30/2016		<0.005		<0.005	<0.025	0.0023 (J)
9/1/2016	0.0287		0.0033 (J)			
10/24/2016		<0.005				
10/25/2016	0.0069					0.0035 (J)
10/26/2016			0.0016 (J)	<0.005	<0.025	
1/3/2017		<0.005		<0.005		
1/4/2017						0.0018 (J)
1/5/2017					0.0021 (J)	
1/6/2017	0.0097		<0.005			
4/3/2017		0.0006 (J)				
4/4/2017			0.0021 (J)			0.0015 (J)
4/6/2017	0.0104			0.0006 (J)	0.0011 (J)	
7/11/2017		0.0006 (J)				
7/12/2017			0.0015 (J)	0.0009 (J)	0.0014 (J)	0.0015 (J)
7/13/2017	0.0064					
10/2/2017		0.0006 (J)				
10/3/2017				0.001 (J)	0.0014 (J)	0.0013 (J)
10/4/2017	0.0078		0.0018 (J)			
1/9/2018	0.0091 (J)	0.0009 (J)			0.0017 (J)	
1/10/2018				0.0012 (J)		0.0023 (J)
1/11/2018			0.0015 (J)			
7/9/2018		<0.005				
7/10/2018				0.0016 (J)	0.00063 (J)	0.0031 (J)
7/11/2018	<0.025		0.00095 (J)			
1/16/2019	<0.025	<0.005	0.0024 (J)	0.0011 (J)	<0.025	0.0023 (J)
3/25/2019	0.0029 (J)	<0.005	0.0029 (J)			
3/26/2019				0.0014 (J)	0.0029 (J)	0.0032 (J)
8/26/2019	0.0041 (J)	<0.005				
8/27/2019			0.0023 (J)		0.0035 (J)	0.0022 (J)
8/28/2019				0.0023 (J)		
10/7/2019		<0.005				

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Arsenic (mg/L) Analysis Run 12/12/2024 2:01 PM

Grumman Road Landfill Client: Southern Company Data: Grumman Road Landfill

	GWA-7 (bg)	GWA-8 (bg)	GWB-4R	GWB-5R	GWB-6R	GWC-1
10/8/2019	0.003 (J)					
10/9/2019			0.0024 (J)	0.0053 (J)	0.0018 (J)	0.0042 (J)
4/6/2020	<0.025	0.00045 (J)				
4/7/2020			0.0027 (J)	0.0011 (J)	<0.025	0.027
8/17/2020		<0.005				
8/19/2020	0.006 (J)		0.0033 (J)	0.0019 (J)	0.0036 (J)	0.007
9/28/2020	<0.025	<0.005				0.0058
9/30/2020				0.0017 (J)	0.004 (J)	
10/1/2020			0.0027 (J)			
3/10/2021			0.0025 (J)	0.0019 (J)	0.0054	0.0055
3/11/2021	0.0047 (J)					
3/12/2021		<0.005				
9/21/2021	<0.025	<0.005	0.0027 (J)	<0.005	0.0054	
9/23/2021						0.0048 (J)
1/31/2022	<0.025	<0.005				
2/2/2022			0.0036 (J)		0.01	
2/3/2022				0.0029 (J)		0.0057
8/30/2022	0.00321 (J)	<0.005	0.0049 (J)	0.00253 (J)	0.00716	
9/1/2022						0.00568
1/31/2023	0.0025 (J)	<0.005				
2/1/2023				0.00295 (J)	0.0042 (J)	
2/2/2023			0.00556			0.00433 (J)
8/28/2023	0.0039 (J)	<0.005				
8/29/2023			0.0057	0.00239 (J)	0.00724	0.00668
1/23/2024	0.00432 (J)	0.00216 (J)			0.00451 (J)	0.00609
2/7/2024			0.00903			
2/8/2024				0.0071		
8/19/2024	0.00287 (J)					
8/20/2024			0.00377 (J)		0.0056	0.0131
8/21/2024		<0.005		0.00237 (J)		

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Arsenic (mg/L) Analysis Run 12/12/2024 2:01 PM

Grumman Road Landfill Client: Southern Company Data: Grumman Road Landfill

	GWC-11	GWC-12	GWC-13	GWC-14	GWC-15	GWC-16
9/29/2000	<0.005	<0.005	<0.005	<0.005	<0.01	0.094
11/21/2000	<0.005	<0.005	<0.005	<0.005	<0.01	0.059
1/20/2001	<0.005	<0.005	<0.005	<0.005	<0.01	0.087
3/14/2001	<0.005	<0.005	<0.005	<0.005	<0.01	0.075
7/16/2001	<0.005	<0.005	<0.005	<0.005	<0.01	0.11
11/1/2001	<0.005	<0.005	<0.005	<0.005	<0.01	0.098
4/25/2002	<0.005	<0.005	<0.005	<0.005	<0.005	0.071
11/20/2002	<0.005	<0.005	<0.005	0.011	<0.005	0.15
6/6/2003	<0.005	<0.005	<0.005	<0.005	<0.005	1.2 (O)
12/12/2003	<0.005	<0.005	0.0064	<0.005	<0.005	0.27 (O)
5/26/2004	<0.005	<0.005	<0.005	<0.005	<0.005	0.12
12/7/2004	<0.005	<0.005	<0.005	<0.005	<0.005	0.098
6/21/2005	<0.005	<0.005	<0.005	<0.005	<0.005	0.065
12/12/2005	<0.005	<0.005	<0.005	<0.005	<0.005	0.081
4/4/2006				<0.005		0.077
6/27/2006	<0.005	<0.005	<0.005	<0.005	<0.005	0.071
8/30/2006				<0.005		0.08
12/4/2006	<0.005	<0.005	<0.005	<0.005	<0.005	0.085
2/15/2007				<0.005		0.09
6/23/2007	<0.005	<0.005	<0.005	<0.005	<0.005	0.12
9/11/2007				<0.005		0.088
12/11/2007	<0.005	<0.005	<0.005	<0.005	<0.005	0.088
3/11/2008				<0.005		0.071
6/23/2008	<0.005	<0.005	<0.005			
6/24/2008				<0.005	<0.005	0.097
11/3/2008				<0.005		0.089
12/4/2008	<0.005	<0.005	<0.005	<0.005		
12/5/2008					<0.005	0.092
3/25/2009				<0.005		0.095
7/8/2009	<0.005	<0.005	<0.005	<0.005	0.0052	0.11
9/14/2009				<0.005		0.099
12/20/2009				<0.005	<0.005	0.1
12/21/2009	<0.005	<0.005	<0.005			
3/4/2010				<0.005		0.074
6/20/2010	<0.005	<0.005	<0.005	<0.005	0.0068	
6/21/2010						0.056
9/14/2010				<0.005		0.067
1/6/2011	<0.005		<0.005			
1/7/2011		<0.005		<0.005	<0.005	0.066
4/15/2011				<0.005		0.08
7/7/2011	<0.005	<0.005	<0.005	<0.005	<0.005	0.054
9/25/2011				<0.005		0.085
1/17/2012	<0.005	<0.005	<0.005	<0.005	<0.005	
1/18/2012						0.089
4/4/2012				<0.005		0.0473
7/9/2012	<0.005	<0.005	<0.005	<0.005	<0.005	
7/10/2012						0.07
10/9/2012				<0.005		0.088
1/17/2013	<0.005	<0.005	<0.005			
1/18/2013				<0.005	0.0089	0.063
4/5/2013				<0.005		0.06
7/16/2013	<0.005	<0.005	<0.005			

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Arsenic (mg/L) Analysis Run 12/12/2024 2:01 PM

Grumman Road Landfill Client: Southern Company Data: Grumman Road Landfill

	GWC-11	GWC-12	GWC-13	GWC-14	GWC-15	GWC-16
7/17/2013				<0.005	0.011	0.063
10/11/2013				0.005		0.059
1/13/2014	<0.005	<0.005	<0.005		0.017	
1/14/2014				<0.005		0.077
4/3/2014				<0.005		0.091
7/8/2014	<0.005	<0.005	<0.005			
7/9/2014				<0.005	0.014	0.08
10/24/2014				<0.005		0.073
1/13/2015	<0.005	<0.005	<0.005		0.011	
1/14/2015				<0.005		0.079
5/10/2015				<0.005		
5/11/2015						0.058
7/16/2015	<0.005	<0.005	<0.005		0.02	0.068
7/17/2015				<0.005		
10/6/2015				<0.005		0.078
1/17/2016				0.002 (J)	0.014	0.089
1/18/2016		<0.005	<0.005			
1/19/2016	<0.005					
4/26/2016				0.00183 (J)		0.0731
7/26/2016	<0.005		<0.005			
7/27/2016		<0.005		0.0021 (J)	0.0303	
7/28/2016						0.0627
8/31/2016	<0.005	<0.005	<0.005			
9/1/2016				0.0024 (J)	0.0533	0.0551
10/25/2016				<0.005	0.0551	0.0466
10/26/2016	<0.005	<0.005	<0.005			
1/4/2017	<0.005	<0.005				0.0444
1/5/2017			<0.005	0.0024 (J)	0.0437	
4/3/2017					0.0713	
4/4/2017				0.003 (J)		
4/5/2017		0.0006 (J)				0.0591
4/6/2017	<0.005		<0.005			
7/10/2017		0.0008 (J)				
7/11/2017	<0.005			0.0019 (J)	0.0745	
7/12/2017			<0.005			0.0776
10/2/2017				0.0026 (J)	0.0723	
10/3/2017	<0.005					0.0813
10/4/2017		0.0009 (J)	<0.005			
1/9/2018				0.0021 (J)	0.0731	
1/10/2018			0.0006 (J)			0.085
1/11/2018	<0.005	<0.005				
7/9/2018				0.0019 (J)		
7/10/2018					0.09	0.067
7/11/2018	<0.005	<0.005	<0.005			
1/16/2019			<0.005	0.0016 (J)		
1/17/2019	<0.005	<0.005			0.13	0.079
3/26/2019			0.00058 (J)	0.0023 (J)	0.1	0.089
3/27/2019	<0.005	<0.005				
8/27/2019	<0.005	<0.005	<0.005	0.0017 (J)	0.17	
8/28/2019						0.091
10/8/2019	<0.005		<0.005	0.0017 (J)	0.13	0.088
10/9/2019		<0.005				

Time Series

Constituent: Arsenic (mg/L) Analysis Run 12/12/2024 2:01 PM

Grumman Road Landfill Client: Southern Company Data: Grumman Road Landfill

	GWC-11	GWC-12	GWC-13	GWC-14	GWC-15	GWC-16
4/7/2020	<0.005	<0.005		0.0018 (J)	0.24	0.091
4/8/2020			<0.005			
8/17/2020		<0.005	<0.005			
8/18/2020	<0.005			0.0012 (J)	0.28	0.045
9/28/2020			<0.005			
9/29/2020	<0.005	<0.005		<0.005		
9/30/2020					0.24	0.044
3/10/2021	<0.005	<0.005				
3/12/2021					0.16	
3/15/2021			<0.005			
3/16/2021				<0.005		0.064
9/21/2021	<0.005	<0.005	<0.005			
9/22/2021				0.0014 (J)		0.081
9/23/2021					0.21	
2/1/2022						0.095
2/2/2022				0.0036 (J)		
2/3/2022	<0.005	0.0016 (J)	0.0025 (J)		0.23	
8/30/2022		<0.005		<0.005		
8/31/2022	<0.005		<0.005		0.259	
9/1/2022						0.0987
2/1/2023	<0.005	<0.005	<0.005			0.115
2/2/2023				0.00261 (J)	0.207	
8/29/2023			<0.005			
9/6/2023	0.00254 (J)	<0.005		0.00244 (J)		0.12
9/7/2023					0.287	
1/24/2024	<0.005				0.177	
1/25/2024		<0.005	<0.005	0.00216 (J)		0.131
8/21/2024	<0.005	<0.005	<0.005	<0.005	0.183	0.131

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Arsenic (mg/L) Analysis Run 12/12/2024 2:01 PM

Grumman Road Landfill Client: Southern Company Data: Grumman Road Landfill

	GWC-17	GWC-2	GWC-20	GWC-21	GWC-22	GWC-9
9/29/2000	<0.005					<0.005
11/21/2000	<0.005	<0.005				<0.005
1/20/2001	<0.005	<0.005				<0.005
3/14/2001	<0.005	<0.005				<0.005
7/16/2001	<0.005	<0.005				<0.005
11/1/2001	<0.005	<0.005				<0.005
4/25/2002	<0.005	<0.005				<0.005
11/20/2002	<0.005	<0.005				<0.005
6/6/2003	<0.005	<0.005				<0.005
12/12/2003	<0.005	<0.005				<0.005
5/26/2004	<0.005	<0.005				<0.005
12/7/2004	<0.005	<0.005				<0.005
6/21/2005	<0.005	<0.005				<0.005
12/12/2005	<0.005	<0.005				<0.005
6/27/2006	<0.005	<0.005				<0.005
12/4/2006	<0.005	<0.005				<0.005
6/23/2007	<0.005	<0.005				<0.005
12/11/2007	<0.005	<0.005				<0.005
6/23/2008						<0.005
6/24/2008	<0.005	<0.005				
12/4/2008		<0.005				<0.005
12/5/2008	<0.005					
7/8/2009	<0.005	<0.005				<0.005
12/20/2009		<0.005				
12/21/2009	<0.005					<0.005
6/20/2010		<0.005				<0.005
6/21/2010	<0.005		0.29	0.013	<0.005	
1/6/2011		<0.005				
1/7/2011	<0.005		0.2	<0.005	<0.005	<0.005
7/7/2011			<0.005			
7/8/2011	<0.005		0.19	<0.005	<0.005	<0.005
1/17/2012		<0.005				
1/18/2012	<0.005		0.058	<0.005	<0.005	<0.005
7/9/2012		<0.005				
7/10/2012	<0.005		0.18	<0.005	<0.005	<0.005
1/17/2013		<0.005				
1/18/2013	<0.005		0.22	0.0061	<0.005	<0.005
7/17/2013	<0.005	<0.005	0.45	<0.005	<0.005	<0.005
1/13/2014		<0.005				
1/14/2014	<0.005		0.52	0.006	<0.005	<0.005
7/9/2014	<0.005	<0.005		<0.005		<0.005
7/10/2014			0.4		0.0027 (J)	
1/12/2015			0.43			
1/13/2015		<0.005				
1/14/2015	<0.005			<0.005	<0.005	<0.005
7/16/2015		<0.005				
7/17/2015				<0.005		<0.005
7/18/2015	<0.005		0.26		<0.005	
1/17/2016		<0.005	0.34	0.0065		
1/18/2016	<0.005				<0.005	<0.005
7/27/2016		<0.005				
7/28/2016			0.209	<0.005		<0.005

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Arsenic (mg/L) Analysis Run 12/12/2024 2:01 PM

Grumman Road Landfill Client: Southern Company Data: Grumman Road Landfill

	GWC-17	GWC-2	GWC-20	GWC-21	GWC-22	GWC-9
7/29/2016	0.0009 (J)				0.002 (J)	
8/31/2016		<0.005			0.0017 (J)	<0.005
9/1/2016	<0.005		0.215	0.0039 (J)		
10/25/2016			0.307	<0.005		
10/26/2016	<0.005	<0.005			<0.005	
10/27/2016						<0.005
1/4/2017			0.311	<0.005	<0.005	
1/5/2017	<0.005	<0.005				
1/6/2017						<0.005
4/4/2017		<0.005	0.317	0.0031 (J)		
4/5/2017	0.0011 (J)					
4/6/2017					0.0006 (J)	<0.005
7/11/2017			0.299		0.0012 (J)	
7/12/2017						<0.005
7/13/2017	0.0016 (J)	<0.005		<0.005		
10/2/2017			0.216			
10/3/2017		<0.005		<0.005		
10/4/2017	0.0019 (J)				0.0025 (J)	<0.005
1/9/2018				0.0033 (J)		
1/10/2018		0.0006 (J)	0.347			
1/11/2018	0.0015 (J)				0.0006 (J)	<0.005
7/9/2018			0.37			
7/10/2018		<0.005		0.0027 (J)		
7/11/2018	0.00082 (J)				0.0011 (J)	<0.005
1/16/2019	<0.005					
1/17/2019				0.0022 (J)		
1/18/2019					<0.005	<0.005
1/21/2019		<0.005	0.44			
3/25/2019			0.41			
3/26/2019	0.0015 (J)			0.0045 (J)		
3/27/2019					<0.005	<0.005
7/30/2019		0.00039 (J)				
8/27/2019		<0.005			0.00044 (J)	
8/28/2019	0.0011 (J)		0.43	0.002 (J)		<0.005
10/8/2019				0.0028 (J)		
10/9/2019	0.0011 (J)	<0.005	0.35		<0.005	<0.005
4/7/2020				<0.005	0.00043 (J)	
4/8/2020	0.0013 (J)	0.00094 (J)	0.33			0.00084 (J)
8/18/2020	<0.005	<0.005	0.3	0.0059	<0.005	
8/19/2020						<0.005
9/29/2020		<0.005				
9/30/2020	0.0012 (J)		0.31	0.0029 (J)	<0.005	
10/1/2020						<0.005
3/10/2021					<0.005	<0.005
3/11/2021	0.0009 (J)					
3/12/2021			0.27			
3/15/2021		<0.005				
3/16/2021				0.0098		
9/21/2021					<0.005	
9/22/2021	<0.005	<0.005	0.23	<0.005		<0.005
2/1/2022	<0.005		0.22	0.02		
2/2/2022		<0.005				<0.005

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Arsenic (mg/L) Analysis Run 12/12/2024 2:01 PM

Grumman Road Landfill Client: Southern Company Data: Grumman Road Landfill

	GWC-17	GWC-2	GWC-20	GWC-21	GWC-22	GWC-9
2/3/2022					<0.005	
8/30/2022			0.465	0.0271		
8/31/2022	<0.005				<0.005	
9/1/2022		<0.005				<0.005
2/1/2023	<0.005		0.389			<0.005
2/2/2023		<0.005		0.0323	<0.005	
8/29/2023	<0.005	<0.005			0.00216 (J)	<0.005
9/6/2023			0.258	0.0323		
1/23/2024					<0.005	
1/24/2024	<0.005		0.552			<0.005
1/25/2024		<0.005		0.0319		
8/21/2024	<0.005	<0.005	0.423		<0.005	<0.005
8/22/2024				0.00929		

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Arsenic (mg/L) Analysis Run 12/12/2024 2:01 PM

Grumman Road Landfill Client: Southern Company Data: Grumman Road Landfill

	MW-23D	MW-24D	MW-25D	MW-26D
1/20/2021			<0.005	
1/21/2021	<0.005	<0.005		
3/11/2021	<0.005	<0.005	0.00092 (J)	0.001 (J)
9/21/2021				<0.005
9/22/2021	<0.005	<0.005		
9/23/2021			<0.005	
2/1/2022		<0.005		
2/2/2022				0.0015 (J)
2/3/2022	<0.005		<0.005	
8/31/2022	<0.005		<0.005	
9/1/2022		<0.005		
2/1/2023	<0.005			
2/2/2023		<0.005	<0.005	
9/6/2023	<0.005	<0.005		
9/7/2023			<0.005	
1/24/2024	<0.005			
1/25/2024		<0.005	<0.005	<0.005
8/20/2024				<0.005
8/21/2024	<0.005	<0.005	<0.005	

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Barium (mg/L) Analysis Run 12/12/2024 2:01 PM

Grumman Road Landfill Client: Southern Company Data: Grumman Road Landfill

	GWA-7 (bg)	GWA-8 (bg)	GWB-4R	GWB-5R	GWB-6R	GWC-1
9/29/2000	0.11	0.16	0.16	0.22	0.16	0.044
11/21/2000	0.12		0.16	0.13	0.21	0.047
1/20/2001	0.11	0.18	0.21	0.19	0.23	0.051
3/14/2001	0.11	0.14	0.18	0.27	0.22	0.048
7/16/2001	0.11	0.14	0.18	0.37	0.22	0.054
11/1/2001	0.11	0.14	0.15	0.61 (O)	0.23	0.063
4/25/2002	0.058	0.088	0.16	0.19	0.15	0.032
6/6/2003	0.19	0.14	0.29	0.72 (O)	0.13	0.046
12/12/2003	0.1	0.13	0.18	0.054	0.034	0.034
5/26/2004	0.084	0.09	0.16	0.18	0.13	0.035
12/7/2004	0.094	0.11	0.16	0.24	0.13	0.024
6/21/2005	0.089	0.084	0.15	0.2	0.07	0.039
12/12/2005	0.089	0.1	0.15	0.074	0.04	0.042
4/4/2006		0.089				
6/27/2006	0.096	0.1	0.19	0.075	0.041	0.033
8/30/2006		0.12				
12/4/2006	0.092	0.086	0.26	0.092	0.048	0.04
2/15/2007		0.088				
6/23/2007	0.08	0.089	0.24	0.089	0.12	0.044
9/11/2007		0.092				
12/11/2007	0.067	0.077	0.21	0.072	0.12	0.049
3/11/2008		0.082				
6/23/2008	0.056	0.086				
6/24/2008			0.13	0.049	0.17	0.038
11/3/2008		0.088				
12/4/2008	0.054	0.081				
12/5/2008			0.12	0.067	0.093	0.06
3/25/2009		0.069				
7/7/2009	0.034	0.078	0.17	0.04	0.06	0.043
9/14/2009		0.079				
12/20/2009	0.034	0.081				0.065
12/21/2009			0.2	0.044	0.11	
3/4/2010		0.065				
6/20/2010	0.062	0.078		0.036	0.11	0.095
6/21/2010			0.22			
9/14/2010		0.076				
1/6/2011				0.075		0.093
1/7/2011	0.039	0.074	0.12		0.025	
4/15/2011		0.065				
7/7/2011	0.036	0.081		0.13	0.025	0.095
7/8/2011			0.15			
9/25/2011		0.078				
1/17/2012	0.041	0.082		0.21		0.1
1/18/2012			0.15		0.03	
4/4/2012		0.0861				
7/9/2012	0.15			0.2		0.11
7/10/2012		0.082	0.14		0.028	
10/9/2012		0.09				
1/17/2013				0.19		0.12
1/18/2013	0.15	0.083	0.15		0.058	
4/5/2013		0.078				
7/16/2013				0.076		0.081

Time Series

Constituent: Barium (mg/L) Analysis Run 12/12/2024 2:01 PM

Grumman Road Landfill Client: Southern Company Data: Grumman Road Landfill

	GWA-7 (bg)	GWA-8 (bg)	GWB-4R	GWB-5R	GWB-6R	GWC-1
7/17/2013	0.13	0.083	0.14		0.086	
10/11/2013		0.078				
1/13/2014	0.16			0.14		0.096
1/14/2014		0.081	0.16		0.1	
4/3/2014		0.077				
7/9/2014	0.11	0.073	0.12	0.12	0.082	0.066
10/24/2014		0.087				
1/12/2015			0.13			
1/13/2015	0.083			0.13		0.068
1/14/2015		0.079			0.094	
5/10/2015		0.076				
7/16/2015	0.094		0.11	0.12		0.07
7/17/2015		0.061			0.11	
10/6/2015		0.067				
1/17/2016						0.062
1/18/2016	0.22	0.068	0.095	0.12	0.11	
4/26/2016		0.0596				
7/27/2016	0.192			0.112		0.0417
7/28/2016		0.0701			0.105	
7/29/2016			0.0883			
8/30/2016		0.0687		0.135	0.106	0.0545
9/1/2016	0.415 (O)		0.123			
10/24/2016		0.07				
10/25/2016	0.173					0.0504
10/26/2016			0.0863	0.103	0.107	
1/3/2017		0.061		0.118		
1/4/2017						0.0534
1/5/2017					0.107	
1/6/2017	0.167		0.0758			
4/3/2017		0.0612				
4/4/2017			0.091			0.0549
4/6/2017	0.136			0.162	0.111	
7/11/2017		0.0624				
7/12/2017			0.0941	0.157	0.106	0.0614
7/13/2017	0.0891					
10/2/2017		0.0618				
10/3/2017				0.127	0.105	0.0436
10/4/2017	0.113		0.0994			
1/9/2018	0.0901	0.0574			0.0969	
1/10/2018				0.158		0.053
1/11/2018			0.088			
7/9/2018		0.056				
7/10/2018				0.31	0.087	0.059
7/11/2018	0.065		0.071			
1/16/2019	0.062	0.062	0.083	0.054	0.013 (J)	0.054
3/25/2019	0.054	0.064	0.077			
3/26/2019				0.057	0.012 (J)	0.055
8/26/2019	0.11	0.065				
8/27/2019			0.076		0.013	0.054
8/28/2019				0.1		
10/7/2019		0.069				
10/8/2019	0.1					

Time Series

Constituent: Barium (mg/L) Analysis Run 12/12/2024 2:01 PM

Grumman Road Landfill Client: Southern Company Data: Grumman Road Landfill

	GWA-7 (bg)	GWA-8 (bg)	GWB-4R	GWB-5R	GWB-6R	GWC-1
10/9/2019			0.076	0.13	0.014 (J)	0.058
4/6/2020	0.072	0.057				
4/7/2020			0.09	0.098	0.01 (J)	0.05
8/17/2020		0.051				
8/19/2020	0.1		0.076	0.1	0.064	0.057
9/28/2020	0.095	0.05				0.051
9/30/2020				0.16	0.092	
10/1/2020			0.077			
3/10/2021			0.07	0.096	0.027	0.052
3/11/2021	0.07					
3/12/2021		0.052				
9/21/2021	0.073	0.049	0.098	0.076	0.077	
9/23/2021						0.062
1/31/2022	0.1	0.051				
2/2/2022			0.17		0.026	
2/3/2022				0.062		0.051
8/30/2022	0.133	0.0512	0.134	0.051	0.0266	
9/1/2022						0.0583
1/31/2023	0.126	0.0499				
2/1/2023				0.101	0.0233	
2/2/2023			0.101			0.0466
8/28/2023	0.177	0.0483				
8/29/2023			0.16	0.0643	0.0196	0.0637
1/23/2024	0.236	0.0571			0.0239	0.0531
2/7/2024			0.178			
2/8/2024				0.168		
8/19/2024	0.201					
8/20/2024			0.214		0.028	0.0452
8/21/2024		0.0576		0.0921		

Time Series

Constituent: Barium (mg/L) Analysis Run 12/12/2024 2:01 PM

Grumman Road Landfill Client: Southern Company Data: Grumman Road Landfill

	GWC-11	GWC-12	GWC-13	GWC-14	GWC-15	GWC-16
9/29/2000	0.1	0.075	<0.005	0.11	0.028	0.076
11/21/2000	0.082	0.072	0.01	0.15	0.035	0.075
1/20/2001	0.083	0.086	<0.005	0.1	0.032	0.053
3/14/2001	0.075	0.088	0.01	0.095	0.036	0.055
7/16/2001	0.091	0.084	<0.005	0.28 (O)	0.036	0.041
11/1/2001	0.068	0.13	<0.005	0.16	0.036	0.045
4/25/2002	0.066	0.24 (O)	<0.005	0.054	0.045	0.055
6/6/2003	0.085	0.28 (O)	0.028	0.063	0.083	0.48 (O)
12/12/2003	0.072	0.27 (O)	0.019	0.041	0.094	0.13
5/26/2004	0.055	0.31 (O)	<0.005	0.059	0.034	0.055
12/7/2004	0.066	0.46 (O)	0.009	0.076	0.042	0.072
6/21/2005	0.033	0.053	0.0089	0.042	0.039	0.061
12/12/2005	0.034	0.1	0.026	0.048	0.043	0.047
4/4/2006				0.05		0.042
6/27/2006	0.029	0.098	0.029	0.036	0.031	0.042
8/30/2006				0.059		0.05
12/4/2006	0.02	0.068	0.017	0.062	0.043	0.044
2/15/2007				0.079		0.041
6/23/2007	0.017	0.042	0.014	0.03	0.031	0.044
9/11/2007				0.053		0.04
12/11/2007	0.013	0.04	0.011	0.075	0.044	0.0035
3/11/2008				0.052		0.034
6/23/2008	0.012	0.041	0.018			
6/24/2008				0.039	0.057	0.042
11/3/2008				0.082		0.049
12/4/2008	0.011	0.035	0.019	0.079		
12/5/2008					0.041	0.05
3/25/2009				0.093		0.052
7/8/2009	0.012	0.036	0.011	0.039	0.058	0.046
9/14/2009				0.061		0.048
12/20/2009				0.088	0.062	0.062
12/21/2009	0.011	0.028	0.01			
3/4/2010				0.077		0.058
6/20/2010	0.0089	0.025	0.0081	0.075	0.03	
6/21/2010						0.041
9/14/2010				0.093		0.036
1/6/2011	0.014		0.012			
1/7/2011		0.037		0.13	0.049	0.054
4/15/2011				0.086		0.049
7/7/2011	0.018	0.039	0.015	0.051	0.05	0.063
9/25/2011				0.056		0.037
1/17/2012	0.23	0.045	0.0086	0.052	0.044	
1/18/2012						0.034
4/4/2012				0.0519		0.0446
7/9/2012	0.17	0.032	0.01	0.048	0.045	
7/10/2012						0.033
10/9/2012				0.065		0.041
1/17/2013	0.2	0.033	0.014			
1/18/2013				0.045	0.049	0.036
4/5/2013				0.047		0.036
7/16/2013	0.11	0.027	0.012			
7/17/2013				0.032	0.039	0.054

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Barium (mg/L) Analysis Run 12/12/2024 2:01 PM

Grumman Road Landfill Client: Southern Company Data: Grumman Road Landfill

	GWC-11	GWC-12	GWC-13	GWC-14	GWC-15	GWC-16
10/11/2013				0.028		0.052
1/13/2014	0.083	0.027	0.015		0.038	
1/14/2014				0.036		0.051
4/3/2014				0.038		0.047
7/8/2014	0.066	0.037	0.017			
7/9/2014				0.03	0.031	0.08
10/24/2014				0.025		0.072
1/13/2015	0.053	0.023	0.019		0.041	
1/14/2015				0.04		0.047
5/10/2015				0.026		
5/11/2015						0.053
7/16/2015	0.052	0.03	0.022		0.041	0.059
7/17/2015				0.029		
10/6/2015				0.03		0.053
1/17/2016				0.038	0.048	0.056
1/18/2016		0.032	0.026			
1/19/2016	0.048					
4/26/2016				0.025		0.0721
7/26/2016	0.051		0.0236			
7/27/2016		0.0191		0.0248	0.0487	
7/28/2016						0.0534
8/31/2016	0.0565	0.019	0.0273			
9/1/2016				0.0346	0.0403	0.0445
10/25/2016				0.0248	0.0329	0.0464
10/26/2016	0.0591	0.0197	0.0238			
1/4/2017	0.0598	0.0174				0.0379
1/5/2017			0.0218	0.0245	0.0392	
4/3/2017					0.0439	
4/4/2017				0.0342		
4/5/2017		0.0174				0.0534
4/6/2017	0.0813		0.0204			
7/10/2017		0.0172				
7/11/2017	0.0302			0.0276	0.051	
7/12/2017			0.0161			0.0944
10/2/2017				0.0274	0.047	
10/3/2017	0.103					0.135
10/4/2017		0.0162	0.0185			
1/9/2018				0.0222	0.0431	
1/10/2018			0.0166			0.0603
1/11/2018	0.166	0.018				
7/9/2018				0.026		
7/10/2018					0.047	0.16
7/11/2018	0.12	0.014	0.019			
1/16/2019			0.019	0.028		
1/17/2019	0.039	0.017			0.042	0.13
3/26/2019			0.026	0.034	0.047	0.14
3/27/2019	0.053	0.017				
8/27/2019	0.12	0.017	0.024	0.067	0.049	
8/28/2019						0.09
10/8/2019	0.13		0.024	0.085	0.057	0.13
10/9/2019		0.019				
4/7/2020	0.14	0.017		0.073	0.033	0.13

Time Series

Constituent: Barium (mg/L) Analysis Run 12/12/2024 2:01 PM

Grumman Road Landfill Client: Southern Company Data: Grumman Road Landfill

	GWC-11	GWC-12	GWC-13	GWC-14	GWC-15	GWC-16
4/8/2020			0.027			
8/17/2020		0.018	0.024			
8/18/2020	0.12			0.028	0.03	0.32
9/28/2020			0.029			
9/29/2020	0.14	0.018		0.026		
9/30/2020					0.034	0.14
3/10/2021	0.13	0.028				
3/12/2021					0.038	
3/15/2021			0.034			
3/16/2021				0.037		0.16
9/21/2021	0.12	0.023	0.037			
9/22/2021				0.11		0.26
9/23/2021					0.062	
2/1/2022						0.23
2/2/2022				0.1		
2/3/2022	0.17	0.025	0.038		0.061	
8/30/2022		0.0275		0.0773		
8/31/2022	0.115		0.0379		0.055	
9/1/2022						0.165
2/1/2023	0.146	0.0256	0.0367			0.163
2/2/2023				0.0617	0.0557	
8/29/2023			0.0712			
9/6/2023	0.192	0.0273		0.0833		0.143
9/7/2023					0.0573	
1/24/2024	0.146				0.0529	
1/25/2024		0.0267	0.0607	0.0418		0.119
8/21/2024	0.126	0.0236	0.0526	0.0355	0.0541	0.111

Time Series

Constituent: Barium (mg/L) Analysis Run 12/12/2024 2:01 PM

Grumman Road Landfill Client: Southern Company Data: Grumman Road Landfill

	GWC-17	GWC-2	GWC-20	GWC-21	GWC-22	GWC-9
9/29/2000	0.16					0.093
11/21/2000	0.17	0.046				0.095
1/20/2001	0.16	0.036				0.089
3/14/2001	0.17	0.03				0.088
7/16/2001	0.19	0.032				0.096
11/1/2001	0.18	0.029				0.094
4/25/2002	0.15	0.021				0.085
6/6/2003	0.13	0.032				0.09
12/12/2003	0.18	0.021				0.084
5/26/2004	0.17	0.035				0.08
12/7/2004	0.19	0.031				0.098
6/21/2005	0.18	0.028				0.084
12/12/2005	0.17	0.024				0.07
6/27/2006	0.17	0.03				0.083
12/4/2006	0.21	0.031				0.072
6/23/2007	0.17	0.037				0.087
12/11/2007	0.18	0.034				0.082
6/23/2008						0.1
6/24/2008	0.14	0.038				
12/4/2008		0.038				0.12
12/5/2008	0.19					
7/8/2009	0.2	0.053				0.14
12/20/2009		0.047				
12/21/2009	0.23					0.15
6/20/2010		0.046				0.21
6/21/2010	0.25		0.062	0.16	0.11	
1/6/2011		0.063				
1/7/2011	0.21		0.039	0.095	0.12	0.2
7/7/2011			0.06			
7/8/2011	0.13		0.043	0.1	0.094	0.18
1/17/2012		0.06				
1/18/2012	0.26		0.042	0.12	0.087	0.18
7/9/2012		0.05				
7/10/2012	0.19		0.039	0.097	0.1	0.16
1/17/2013		0.058				
1/18/2013	0.17		0.04	0.1	0.078	0.19
7/17/2013	0.18	0.041	0.055	0.069	0.062	0.17
1/13/2014		0.058				
1/14/2014	0.18		0.059	0.086	0.073	0.2
7/9/2014	0.16	0.048		0.065		0.16
7/10/2014			0.067		0.13	
1/12/2015			0.061			
1/13/2015		0.048				
1/14/2015	0.16			0.084	0.065	0.17
7/16/2015		0.048				
7/17/2015				0.071		0.18
7/18/2015	0.012		0.13		0.073	
1/17/2016		0.049	0.08	0.079		
1/18/2016	0.13				0.062	0.2
7/27/2016		0.0796				
7/28/2016			0.164	0.0626		0.234
7/29/2016	0.181				0.0575	

Time Series

Constituent: Barium (mg/L) Analysis Run 12/12/2024 2:01 PM

Grumman Road Landfill Client: Southern Company Data: Grumman Road Landfill

	GWC-17	GWC-2	GWC-20	GWC-21	GWC-22	GWC-9
8/31/2016		0.0429			0.0693	0.284
9/1/2016	0.203		0.0976	0.077		
10/25/2016			0.0702	0.0217		
10/26/2016	0.177	0.113 (O)			0.0966	
10/27/2016						0.244
1/4/2017			0.0999	0.0617	0.0975	
1/5/2017	0.142	0.0526				
1/6/2017						0.305
4/4/2017		0.0503	0.136	0.0761		
4/5/2017	0.106					
4/6/2017					0.064	0.249
7/11/2017			0.145		0.0778	
7/12/2017						0.256
7/13/2017	0.0686	0.0529		0.0428		
10/2/2017			0.148			
10/3/2017		0.057		0.0376		
10/4/2017	0.0589				0.156	0.356
1/9/2018				0.0704		
1/10/2018		0.0527	0.0788			
1/11/2018	0.0412				0.0702	0.226
7/9/2018			0.087			
7/10/2018		0.054		0.061		
7/11/2018	0.049				0.12	0.29
1/16/2019	0.063					
1/17/2019				0.061		
1/18/2019					0.052	0.21
1/21/2019		0.05	0.069			
3/25/2019			0.085			
3/26/2019	0.025			0.084		
3/27/2019					0.057	0.19
7/30/2019		0.052				
8/27/2019		0.053			0.097	
8/28/2019	0.026		0.078	0.063		0.17
10/8/2019				0.079		
10/9/2019	0.032	0.05	0.078		0.065	0.18
4/7/2020				0.054	0.1	
4/8/2020	0.055	0.061	0.19			0.15
8/18/2020	0.074	0.05	0.38	0.18	0.085	
8/19/2020						0.17
9/29/2020		0.049				
9/30/2020	0.035		0.35	0.19	0.045	
10/1/2020						0.15
3/10/2021					0.049	0.15
3/11/2021	0.044					
3/12/2021			0.34			
3/15/2021		0.053				
3/16/2021				0.18		
9/21/2021					0.036	
9/22/2021	0.058	0.047	0.42	0.046		0.15
2/1/2022	0.055		0.36	0.24		
2/2/2022		0.052				0.15
2/3/2022					0.038	

Time Series

Constituent: Barium (mg/L) Analysis Run 12/12/2024 2:01 PM

Grumman Road Landfill Client: Southern Company Data: Grumman Road Landfill

	GWC-17	GWC-2	GWC-20	GWC-21	GWC-22	GWC-9
8/30/2022			0.21	0.191		
8/31/2022	0.0375				0.0741	
9/1/2022		0.0508				0.151
2/1/2023	0.0262		0.194			0.128
2/2/2023		0.0461		0.196	0.0456	
8/29/2023	0.0295	0.0452			0.127	0.138
9/6/2023			0.178	0.232		
1/23/2024					0.0372	
1/24/2024	0.029		0.109			0.134
1/25/2024		0.0505		0.203		
8/21/2024	0.0254	0.0506	0.226		0.0362	0.149
8/22/2024				0.291		

Time Series

Constituent: Barium (mg/L) Analysis Run 12/12/2024 2:01 PM

Grumman Road Landfill Client: Southern Company Data: Grumman Road Landfill

	MW-23D	MW-24D	MW-25D	MW-26D
3/11/2021	0.076	0.047	0.03	0.037
9/21/2021				0.027
9/22/2021	0.076	0.038		
9/23/2021			0.024	
2/1/2022		0.036		
2/2/2022				0.026
2/3/2022	0.079		0.024	
8/31/2022	0.0765		0.0216	
9/1/2022		0.0267		
2/1/2023	0.06			
2/2/2023		0.0268	0.0253	
9/6/2023	0.0732	0.034		
9/7/2023			0.029	
1/24/2024	0.0554			
1/25/2024		0.027	0.0233	0.0287
8/20/2024				0.0297
8/21/2024	0.0642	0.028	0.0253	

Time Series

Constituent: Beryllium (mg/L) Analysis Run 12/12/2024 2:01 PM

Grumman Road Landfill Client: Southern Company Data: Grumman Road Landfill

	GWA-7 (bg)	GWA-8 (bg)	GWB-4R	GWB-5R	GWB-6R	GWC-1
9/29/2000	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005
11/21/2000	<0.0005		<0.0005	<0.0005	<0.0005	<0.0005
1/20/2001	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005
3/14/2001	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005
7/16/2001	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005
11/1/2001	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005
4/25/2002	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005
8/30/2016		0.0002 (J)		0.0002 (J)	<0.0005	<0.0005
9/1/2016	0.0017 (J)		0.0004 (J)			
10/24/2016		<0.0005				
10/25/2016	0.0002 (J)					<0.0005
10/26/2016			0.0001 (J)	0.0001 (J)	<0.0005	
1/3/2017		0.0002 (J)		0.0001 (J)		
1/4/2017						<0.0005
1/5/2017					<0.0005	
1/6/2017	0.0003 (J)		0.0001 (J)			
4/3/2017		0.0002 (J)				
4/4/2017			0.0001 (J)			<0.0005
4/6/2017	0.0004 (J)			0.0003 (J)	<0.0005	
7/11/2017		0.0002 (J)				
7/12/2017			<0.0005	0.0002 (J)	<0.0005	<0.0005
7/13/2017	0.001 (J)					
10/2/2017		0.0002 (J)				
10/3/2017				0.0002 (J)	<0.0005	<0.0005
10/4/2017	0.0002 (J)		0.0001 (J)			
1/9/2018	<0.0005	0.0002 (J)			<0.0005	
1/10/2018				0.0003 (J)		<0.0005
1/11/2018			0.0001 (J)			
7/9/2018		0.0002 (J)				
7/10/2018				0.00028 (J)	<0.0005	<0.0005
7/11/2018	<0.0005		<0.0005			
8/26/2019	<0.0005	0.00021 (J)				
8/27/2019			<0.0005		<0.0005	<0.0005
8/28/2019				7.6E-05 (J)		
10/7/2019		0.00024 (J)				
10/8/2019	<0.0005					
10/9/2019			<0.0005	<0.0005	<0.0005	<0.0005
4/6/2020	<0.0005	0.00017 (J)				
4/7/2020			<0.0005	<0.0005	<0.0005	<0.0005
8/17/2020		0.00019 (J)				
8/19/2020	<0.0005		<0.0005	<0.0005	5E-05 (J)	<0.0005
9/28/2020	<0.0005	0.00021 (J)				<0.0005
9/30/2020				6.5E-05 (J)	4.6E-05 (J)	
10/1/2020			<0.0005			
3/10/2021			<0.0005	8.2E-05 (J)	<0.0005	<0.0005
3/11/2021	0.00028 (J)					
3/12/2021		0.00023 (J)				
9/21/2021	<0.0005	0.00016 (J)	<0.0005	9.9E-05 (J)	<0.0005	
9/23/2021						<0.0005
1/31/2022	<0.0005	0.00016 (J)				
2/2/2022			<0.0005		<0.0005	
2/3/2022				0.00014 (J)		<0.0005

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Beryllium (mg/L) Analysis Run 12/12/2024 2:01 PM

Grumman Road Landfill Client: Southern Company Data: Grumman Road Landfill

	GWA-7 (bg)	GWA-8 (bg)	GWB-4R	GWB-5R	GWB-6R	GWC-1
8/30/2022	0.000219 (J)	<0.0005	<0.0005	<0.0005	<0.0005	
9/1/2022						<0.0005
1/31/2023	<0.0005	0.000206 (J)				
2/1/2023				<0.0005	<0.0005	
2/2/2023			<0.0005			<0.0005
8/28/2023	<0.0005	<0.0005				
8/29/2023			<0.0005	<0.0005	<0.0005	<0.0005
1/23/2024	<0.0005	<0.0005			<0.0005	<0.0005
2/7/2024			<0.0005			
2/8/2024				<0.0005		
8/19/2024	<0.0005					
8/20/2024			<0.0005		<0.0005	<0.0005
8/21/2024		<0.0005		<0.0005		

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Beryllium (mg/L) Analysis Run 12/12/2024 2:01 PM

Grumman Road Landfill Client: Southern Company Data: Grumman Road Landfill

	GWC-11	GWC-12	GWC-13	GWC-14	GWC-15	GWC-16
9/29/2000	<0.0005	<0.002	<0.0005	<0.0005	<0.0005	<0.0005
11/21/2000	<0.0005	<0.002	<0.0005	<0.0005	<0.0005	<0.0005
1/20/2001	<0.0005	<0.002	<0.0005	<0.0005	<0.0005	<0.0005
3/14/2001	<0.0005	<0.002	<0.0005	<0.0005	<0.0005	<0.0005
7/16/2001	<0.0005	<0.002	<0.0005	<0.0005	<0.0005	<0.0005
11/1/2001	<0.0005	<0.002	<0.0005	<0.0005	<0.0005	<0.0005
4/25/2002	<0.0005	<0.002	<0.0005	<0.0005	<0.0005	<0.0005
8/31/2016	<0.0005	0.0011 (J)	<0.0005			
9/1/2016				0.0001 (J)	<0.0005	0.0001 (J)
10/25/2016				<0.0005	<0.0005	<0.0005
10/26/2016	<0.0005	0.0011 (J)	<0.0005			
1/4/2017	<0.0005	0.0009 (J)				9E-05 (J)
1/5/2017			<0.0005	<0.0005	<0.0005	
4/3/2017					<0.0005	
4/4/2017				9E-05 (J)		
4/5/2017		0.0008 (J)				9E-05 (J)
4/6/2017	<0.0005		<0.0005			
7/10/2017		0.0008 (J)				
7/11/2017	<0.0005			<0.0005	<0.0005	
7/12/2017			<0.0005			<0.0005
10/2/2017				<0.0005	<0.0005	
10/3/2017	<0.0005					<0.0005
10/4/2017		0.0006 (J)	<0.0005			
1/9/2018				<0.0005	<0.0005	
1/10/2018			<0.0005			0.0001 (J)
1/11/2018	<0.0005	0.0006 (J)				
7/9/2018				6.2E-05 (J)		
7/10/2018					<0.0005	6E-05 (J)
7/11/2018	<0.0005	0.00061 (J)	5.8E-05 (J)			
8/27/2019	<0.0005	0.00047 (J)	<0.0005	<0.0005	<0.0005	
8/28/2019						8E-05 (J)
10/8/2019	<0.0005		<0.0005	<0.0005	<0.0005	9.8E-05 (J)
10/9/2019		0.00046 (J)				
4/7/2020	<0.0005	0.00051 (J)		<0.0005	<0.0005	<0.0005
4/8/2020			<0.0005			
8/17/2020		0.00046 (J)	<0.0005			
8/18/2020	<0.0005			<0.0005	<0.0005	6.8E-05 (J)
9/28/2020			<0.0005			
9/29/2020	<0.0005	0.00043 (J)		<0.0005		
9/30/2020					<0.0005	8.9E-05 (J)
3/10/2021	4.7E-05 (J)	0.00054				
3/12/2021					<0.0005	
3/15/2021			<0.0005			
3/16/2021				<0.0005		<0.0005
9/21/2021	<0.0005	0.00047 (J)	<0.0005			
9/22/2021				<0.0005		6E-05 (J)
9/23/2021					<0.0005	
2/1/2022						<0.0005
2/2/2022				<0.0005		
2/3/2022	<0.0005	0.00056	<0.0005		<0.0005	
8/30/2022		0.000663		<0.0005		
8/31/2022	<0.0005		<0.0005		<0.0005	

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Beryllium (mg/L) Analysis Run 12/12/2024 2:01 PM

Grumman Road Landfill Client: Southern Company Data: Grumman Road Landfill

	GWC-11	GWC-12	GWC-13	GWC-14	GWC-15	GWC-16
9/1/2022						<0.0005
2/1/2023	<0.0005	0.000634	<0.0005			<0.0005
2/2/2023				<0.0005	<0.0005	
8/29/2023			<0.0005			
9/6/2023	<0.0005	0.000521		<0.0005		<0.0005
9/7/2023					<0.0005	
1/24/2024	<0.0005				<0.0005	
1/25/2024		0.000534	<0.0005	<0.0005		<0.0005
8/21/2024	<0.0005	0.000587	<0.0005	<0.0005	<0.0005	<0.0005

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Beryllium (mg/L) Analysis Run 12/12/2024 2:01 PM

Grumman Road Landfill Client: Southern Company Data: Grumman Road Landfill

	GWC-17	GWC-2	GWC-20	GWC-21	GWC-22	GWC-9
9/29/2000	<0.002					<0.0005
11/21/2000	<0.002	<0.0005				<0.0005
1/20/2001	<0.002	<0.0005				<0.0005
3/14/2001	<0.002	<0.0005				<0.0005
7/16/2001	<0.002	<0.0005				<0.0005
11/1/2001	<0.002	<0.0005				<0.0005
4/25/2002	<0.002	<0.0005				<0.0005
8/31/2016		<0.0005			0.0002 (J)	0.0003 (J)
9/1/2016	0.0014 (J)		<0.0005	<0.0005		
10/25/2016			<0.0005	<0.0005		
10/26/2016	0.0016 (J)	0.0003 (J)			0.0002 (J)	
10/27/2016						0.0003 (J)
1/4/2017			<0.0005	<0.0005	0.0001 (J)	
1/5/2017	0.0019 (J)	<0.0005				
1/6/2017						0.0002 (J)
4/4/2017		9E-05 (J)	<0.0005	<0.0005		
4/5/2017	0.0024 (J)					
4/6/2017					<0.0005	0.0003 (J)
7/11/2017			<0.0005		<0.0005	
7/12/2017						0.0003 (J)
7/13/2017	0.0034	<0.0005		<0.0005		
10/2/2017			<0.0005			
10/3/2017		<0.0005		<0.0005		
10/4/2017	0.0037				0.0001 (J)	0.0002 (J)
1/9/2018				<0.0005		
1/10/2018		<0.0005	<0.0005			
1/11/2018	0.0033				<0.0005	0.0003 (J)
7/9/2018			<0.0005			
7/10/2018		<0.0005		<0.0005		
7/11/2018	0.0038				7E-05 (J)	0.0003 (J)
7/30/2019		<0.0005				
8/27/2019		<0.0005			9E-05 (J)	
8/28/2019	0.0017 (J)		<0.0005	<0.0005		0.00022 (J)
10/8/2019				<0.0005		
10/9/2019	0.0018 (J)	<0.0005	<0.0005		<0.0005	0.00023 (J)
4/7/2020				<0.0005	<0.0005	
4/8/2020	0.0017 (J)	8.8E-05 (J)	<0.0005			0.00019 (J)
8/18/2020	0.0016 (J)	5.1E-05 (J)	<0.0005	<0.0005	7.6E-05 (J)	
8/19/2020						0.00022 (J)
9/29/2020		7.5E-05 (J)				
9/30/2020	0.0013 (J)		<0.0005	<0.0005	<0.0005	
10/1/2020						0.0002 (J)
3/10/2021					<0.0005	0.00019 (J)
3/11/2021	0.0012					
3/12/2021			<0.0005			
3/15/2021		7.3E-05 (J)				
3/16/2021				<0.0005		
9/21/2021					<0.0005	
9/22/2021	0.0017	<0.0005	<0.0005	<0.0005		0.00017 (J)
2/1/2022	0.002		<0.0005	<0.0005		
2/2/2022		<0.0005				0.00018 (J)
2/3/2022					<0.0005	

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Beryllium (mg/L) Analysis Run 12/12/2024 2:01 PM

Grumman Road Landfill Client: Southern Company Data: Grumman Road Landfill

	GWC-17	GWC-2	GWC-20	GWC-21	GWC-22	GWC-9
8/30/2022			<0.0005	<0.0005		
8/31/2022	0.00258				<0.0005	
9/1/2022		<0.0005				<0.0005
2/1/2023	0.00206		<0.0005			0.000215 (J)
2/2/2023		<0.0005		<0.0005	<0.0005	
8/29/2023	0.00174	<0.0005			<0.0005	<0.0005
9/6/2023			<0.0005	<0.0005		
1/23/2024					<0.0005	
1/24/2024	0.00158		<0.0005			<0.0005
1/25/2024		<0.0005		<0.0005		
8/21/2024	0.00186	<0.0005	<0.0005		<0.0005	0.00021 (J)
8/22/2024				<0.0005		

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Beryllium (mg/L) Analysis Run 12/12/2024 2:01 PM

Grumman Road Landfill Client: Southern Company Data: Grumman Road Landfill

	MW-23D	MW-24D	MW-25D	MW-26D
3/11/2021	<0.0005	<0.0005	8.4E-05 (J)	0.0001 (J)
9/21/2021				7.3E-05 (J)
9/22/2021	<0.0005	<0.0005		
9/23/2021			<0.0005	
2/1/2022		<0.0005		
2/2/2022				8.8E-05 (J)
2/3/2022	<0.0005		<0.0005	
8/31/2022	<0.0005		<0.0005	
9/1/2022		<0.0005		
2/1/2023	<0.0005			
2/2/2023		<0.0005	<0.0005	
9/6/2023	<0.0005	<0.0005		
9/7/2023			<0.0005	
1/24/2024	<0.0005			
1/25/2024		<0.0005	<0.0005	<0.0005
8/20/2024				<0.0005
8/21/2024	<0.0005	<0.0005	<0.0005	

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Boron (mg/L) Analysis Run 12/12/2024 2:01 PM

Grumman Road Landfill Client: Southern Company Data: Grumman Road Landfill

	GWA-7 (bg)	GWA-8 (bg)	GWB-4R	GWB-5R	GWB-6R	GWC-1
8/30/2016		0.117		1.09	1.41	0.875
9/1/2016	11.6		6.48			
10/24/2016		0.126				
10/25/2016	21.4					1.22
10/26/2016			7.57	2.5	1.83	
1/3/2017		0.124		3.39		
1/4/2017						1.3
1/5/2017					3.07	
1/6/2017	20.1		8.34			
4/3/2017		0.105				
4/4/2017			8.18			1.19
4/6/2017	21.8			2.76	3.19	
7/11/2017		0.136				
7/12/2017			7.51	3.55	3.06	1.37
7/13/2017	16.3					
10/2/2017		0.107				
10/3/2017				2.72	2.69	0.765
10/4/2017	21.5		8.88			
1/9/2018	13.9	0.123			2.81	
1/10/2018				3.21		0.876
1/11/2018			6.95			
7/9/2018		0.11				
7/10/2018				7	2.9	0.94
7/11/2018	11.7		6.4			
1/16/2019	9.3	0.13	5.3	5	7.7	0.91
3/25/2019	8.5	0.098	4.4			
3/26/2019				4	7.4	0.77
10/7/2019		0.12				
10/8/2019	6.4					
10/9/2019			5.7	6.8	6.3	0.93
4/6/2020	6.1	0.14				
4/7/2020			5.5	4.6	5.6	1
9/28/2020	4.6	0.15				0.69
9/30/2020				4	4.2	
10/1/2020			5.2			
3/10/2021			4.9	3.9	6.9	0.63
3/11/2021	8					
3/12/2021		0.11				
9/21/2021	4.4	0.13	6.4	4.1	4.2	
9/23/2021						0.59
1/31/2022	3.9	0.13				
2/2/2022			6.2		6.2	
2/3/2022				4.9		0.59
8/30/2022	5.72	0.152	4.95	4.66	7.13	
9/1/2022						0.728
1/31/2023	5.72	0.177				
2/1/2023				6.19	8.23	
2/2/2023			5.35			0.599
8/28/2023	7.01	0.194				
8/29/2023			4.35	3.69	5.92	0.653
1/23/2024	10.4	0.195			6.94	0.568
2/7/2024			4.72			

Time Series

Constituent: Boron (mg/L) Analysis Run 12/12/2024 2:01 PM

Grumman Road Landfill Client: Southern Company Data: Grumman Road Landfill

	GWA-7 (bg)	GWA-8 (bg)	GWB-4R	GWB-5R	GWB-6R	GWC-1
2/8/2024				9.21		
8/19/2024	10.5					
8/20/2024			6.51		6.7	0.854
8/21/2024		0.23		5.38		

Time Series

Constituent: Boron (mg/L) Analysis Run 12/12/2024 2:01 PM

Grumman Road Landfill Client: Southern Company Data: Grumman Road Landfill

	GWC-11	GWC-12	GWC-13	GWC-14	GWC-15	GWC-16
8/31/2016	0.0688 (J)	5.1	0.261			
9/1/2016				0.071 (J)	9.01 (O)	1.82
10/25/2016				0.0819 (J)	1.66	1.26
10/26/2016	0.083 (J)	5.74	0.211			
1/4/2017	0.0738	6.56				1.46
1/5/2017			0.179	0.0813	1.1	
4/3/2017					1.21	
4/4/2017				0.0723		
4/5/2017		6.49				2
4/6/2017	0.0754		0.112			
7/10/2017		8.13				
7/11/2017	0.0614			0.0734	1.44	
7/12/2017			0.0882			2.95
10/2/2017				0.0748	1.59	
10/3/2017	0.0838					4.15
10/4/2017		5.18	0.116			
1/9/2018				0.0679	1.35	
1/10/2018			0.101			3.68
1/11/2018	0.169	5.16				
7/9/2018				0.061		
7/10/2018					1.2	5.2
7/11/2018	0.3	8.5	0.098			
1/16/2019			0.11	0.046		
1/17/2019	0.065	7			1.1	8.6
3/26/2019			0.35	0.037 (J)	0.95	7.4
3/27/2019	0.089	6.1				
10/8/2019	0.22		0.18	0.048	1.1	8.4
10/9/2019		8.2				
4/7/2020	0.67	5.3		0.061 (J)	0.96	10.5
4/8/2020			0.28			
9/28/2020			0.24			
9/29/2020	1.2	4.7		0.053		
9/30/2020					0.86	8.1
3/10/2021	1.8	6.1				
3/12/2021					0.81	
3/15/2021			0.31			
3/16/2021				0.08		10
9/21/2021	0.8	5.8	0.38			
9/22/2021				0.052		11.5
9/23/2021					0.72	
2/1/2022						16
2/2/2022				0.044		
2/3/2022	0.1	7.5	0.37		0.71	
8/30/2022		8.21		0.046		
8/31/2022	1.65		0.231		0.719	
9/1/2022						15.9
2/1/2023	4.49	10.1	0.208			17.1
2/2/2023				0.0451	0.679	
8/29/2023			0.296			
9/6/2023	4.44	9.02		0.0433		20.4
9/7/2023					0.747	
1/24/2024	2.36				0.743	

Time Series

Constituent: Boron (mg/L) Analysis Run 12/12/2024 2:01 PM

Grumman Road Landfill Client: Southern Company Data: Grumman Road Landfill

	GWC-11	GWC-12	GWC-13	GWC-14	GWC-15	GWC-16
1/25/2024		8.4	0.275	0.0439		20.9
8/21/2024	0.668	9.95	0.233	0.0675	0.785	22.6

Time Series

Constituent: Boron (mg/L) Analysis Run 12/12/2024 2:01 PM

Grumman Road Landfill Client: Southern Company Data: Grumman Road Landfill

	GWC-17	GWC-2	GWC-20	GWC-21	GWC-22	GWC-9
8/31/2016		0.0196 (J)			12.8	0.096 (J)
9/1/2016	0.408		3.34	0.62		
10/25/2016			2.54	0.0658 (J)		
10/26/2016	0.5	0.05 (J)			9.81	
10/27/2016						0.0281 (J)
1/4/2017			1.91	0.36	8.94	
1/5/2017	0.676	0.0162 (J)				
1/6/2017						0.0189 (J)
4/4/2017		0.019 (J)	2.77	0.509		
4/5/2017	0.69					
4/6/2017					0.733	0.0181 (J)
7/11/2017			4.14		0.852	
7/12/2017						0.0211 (J)
7/13/2017	0.888	0.023 (J)		0.126		
10/2/2017			4.65			
10/3/2017		0.0266 (J)		0.1		
10/4/2017	1.02				6.05	0.0254 (J)
1/9/2018				0.783		
1/10/2018		0.0203 (J)	1.79			
1/11/2018	1.28				0.838	0.018 (J)
7/9/2018			1.7			
7/10/2018		0.026 (J)		0.5		
7/11/2018	1.6				3.2	0.02 (J)
1/16/2019	1.5					
1/17/2019				0.43		
1/18/2019					0.37	0.018 (J)
1/21/2019		0.018 (J)	1.1			
3/25/2019			1			
3/26/2019	1.2			0.61		
3/27/2019					0.37	0.016 (J)
7/30/2019		0.02 (J)				
10/8/2019				1		
10/9/2019	1.3	0.024 (J)	0.79		0.39	0.019 (J)
4/7/2020				0.24	3.1	
4/8/2020	0.99	0.031 (J)	2.5			0.023 (J)
9/29/2020		0.024 (J)				
9/30/2020	0.86		9.9	2.3	0.25	
10/1/2020						0.028 (J)
3/10/2021					0.32	0.022 (J)
3/11/2021	0.85					
3/12/2021			15.6			
3/15/2021		0.084				
3/16/2021				3.5		
9/21/2021					0.19	
9/22/2021	1.4	0.017 (J)	11.3	0.095		0.015 (J)
2/1/2022	1.8		15.7	4.4		
2/2/2022		0.023 (J)				0.011 (J)
2/3/2022					0.18	
8/30/2022			8.14	5.08		
8/31/2022	2.51				0.271	
9/1/2022		0.0204				0.0187
2/1/2023	1.83		11.9			0.0186

Time Series

Constituent: Boron (mg/L) Analysis Run 12/12/2024 2:01 PM

Grumman Road Landfill Client: Southern Company Data: Grumman Road Landfill

	GWC-17	GWC-2	GWC-20	GWC-21	GWC-22	GWC-9
2/2/2023		0.022		5.15	0.302	
8/29/2023	1.77	0.0163			9.28	0.016
9/6/2023			11.3	5.6		
1/23/2024					0.173	
1/24/2024	1.57		3			0.0175
1/25/2024		0.0199		6.05		
8/21/2024	1.66	0.023	10.1		0.179	0.0193
8/22/2024				2.98		

Time Series

Constituent: Boron (mg/L) Analysis Run 12/12/2024 2:01 PM

Grumman Road Landfill Client: Southern Company Data: Grumman Road Landfill

	MW-23D	MW-24D	MW-25D	MW-26D
1/20/2021			0.013 (J)	0.013 (J)
1/21/2021	0.018 (J)	0.014 (J)		
3/11/2021	0.03 (J)	0.019 (J)	0.017 (J)	0.015 (J)
9/21/2021				0.025 (J)
9/22/2021	0.033 (J)	0.014 (J)		
9/23/2021			0.012 (J)	
2/1/2022		0.014 (J)		
2/2/2022				0.033 (J)
2/3/2022	0.03 (J)		0.013 (J)	
8/31/2022	0.0283		0.0166	
9/1/2022		0.0303		
2/1/2023	0.0272			
2/2/2023		0.0218	0.0181	
9/6/2023	0.0276	0.0168		
9/7/2023			0.015 (J)	
1/24/2024	0.0236			
1/25/2024		0.018	0.0155	0.0169
8/20/2024				0.0114 (J)
8/21/2024	0.0276	0.0176	0.0175	

Time Series

Constituent: Cadmium (mg/L) Analysis Run 12/12/2024 2:01 PM

Grumman Road Landfill Client: Southern Company Data: Grumman Road Landfill

	GWA-7 (bg)	GWA-8 (bg)	GWB-4R	GWB-5R	GWB-6R	GWC-1
11/21/2000	<0.001		<0.001	<0.001	<0.001	<0.001
1/20/2001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
3/14/2001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
7/16/2001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
11/1/2001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
4/25/2002	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
8/30/2016		<0.001		<0.001	<0.001	<0.001
9/1/2016	0.0007 (J)		0.0002 (J)			
10/24/2016		<0.001				
10/25/2016	<0.001					<0.001
10/26/2016			<0.001	<0.001	<0.001	
1/3/2017		<0.001		<0.001		
1/4/2017						0.0001 (J)
1/5/2017					<0.001	
1/6/2017	0.0001 (J)		9E-05 (J)			
4/3/2017		<0.001				
4/4/2017			9E-05 (J)			7E-05 (J)
4/6/2017	<0.001			<0.001	<0.001	
7/11/2017		<0.001				
7/12/2017			<0.001	<0.001	<0.001	<0.001
7/13/2017	<0.001					
10/2/2017		<0.001				
10/3/2017				<0.001	<0.001	<0.001
10/4/2017	<0.001		<0.001			
1/9/2018	<0.001	<0.001			<0.001	
1/10/2018				<0.001		<0.001
1/11/2018			0.0002 (J)			
7/9/2018		<0.001				
7/10/2018				<0.001	<0.001	<0.001
7/11/2018	<0.001		<0.001			
8/26/2019	<0.001	<0.001				
8/27/2019			<0.001		<0.001	<0.001
8/28/2019				<0.001		
10/7/2019		<0.001				
10/8/2019	<0.001					
10/9/2019			<0.001	<0.001	<0.001	<0.001
4/6/2020	<0.001	<0.001				
4/7/2020			<0.001	<0.001	<0.001	<0.001
8/17/2020		<0.001				
8/19/2020	<0.001		<0.001	<0.001	<0.001	<0.001
9/28/2020	<0.001	<0.001				<0.001
9/30/2020				<0.001	<0.001	
10/1/2020			<0.001			
3/10/2021			<0.001	<0.001	<0.001	<0.001
3/11/2021	<0.001					
3/12/2021		<0.001				
9/21/2021	<0.001	<0.001	<0.001	<0.001	<0.001	
9/23/2021						<0.001
1/31/2022	<0.001	<0.001				
2/2/2022			<0.001		<0.001	
2/3/2022				<0.001		<0.001
8/30/2022	<0.001	<0.001	<0.001	<0.001	<0.001	

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Cadmium (mg/L) Analysis Run 12/12/2024 2:01 PM

Grumman Road Landfill Client: Southern Company Data: Grumman Road Landfill

	GWA-7 (bg)	GWA-8 (bg)	GWB-4R	GWB-5R	GWB-6R	GWC-1
9/1/2022						<0.001
1/31/2023	<0.001	<0.001				
2/1/2023				<0.001	<0.001	
2/2/2023			<0.001			<0.001
8/28/2023	<0.001	<0.001				
8/29/2023			0.000304 (J)	<0.001	<0.001	<0.001
1/23/2024	<0.001	<0.001			<0.001	<0.001
2/7/2024			<0.001			
2/8/2024				<0.001		
8/19/2024	<0.001					
8/20/2024			<0.001		<0.001	<0.001
8/21/2024		<0.001		<0.001		

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Cadmium (mg/L) Analysis Run 12/12/2024 2:01 PM

Grumman Road Landfill Client: Southern Company Data: Grumman Road Landfill

	GWC-11	GWC-12	GWC-13	GWC-14	GWC-15	GWC-16
11/21/2000	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
1/20/2001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
3/14/2001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
7/16/2001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
11/1/2001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
4/25/2002	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
8/31/2016	0.0002 (J)	<0.001	<0.001			
9/1/2016				0.0001 (J)	<0.001	<0.001
10/25/2016				0.0002 (J)	<0.001	<0.001
10/26/2016	0.0001 (J)	<0.001	<0.001			
1/4/2017	0.0001 (J)	<0.001				<0.001
1/5/2017			<0.001	0.0002 (J)	<0.001	
4/3/2017					<0.001	
4/4/2017				0.0002 (J)		
4/5/2017		<0.001				<0.001
4/6/2017	0.0002 (J)		<0.001			
7/10/2017		<0.001				
7/11/2017	<0.001			0.0002 (J)	<0.001	
7/12/2017			<0.001			<0.001
10/2/2017				<0.001	<0.001	
10/3/2017	0.0003 (J)					<0.001
10/4/2017		<0.001	<0.001			
1/9/2018				<0.001	<0.001	
1/10/2018			<0.001			<0.001
1/11/2018	0.0006 (J)	<0.001				
7/9/2018				0.00017 (J)		
7/10/2018					<0.001	<0.001
7/11/2018	0.0004 (J)	<0.001	<0.001			
8/27/2019	0.00044 (J)	<0.001	<0.001	<0.001	<0.001	
8/28/2019						<0.001
10/8/2019	0.00043 (J)		<0.001	<0.001	<0.001	<0.001
10/9/2019		<0.001				
4/7/2020	0.00051 (J)	<0.001		<0.001	<0.001	<0.001
4/8/2020			<0.001			
8/17/2020		<0.001	<0.001			
8/18/2020	0.00058 (J)			<0.001	<0.001	<0.001
9/28/2020			<0.001			
9/29/2020	0.00077 (J)	<0.001		0.00012 (J)		
9/30/2020					<0.001	<0.001
3/10/2021	0.0009	<0.001				
3/12/2021					<0.001	
3/15/2021			<0.001			
3/16/2021				<0.001		<0.001
9/21/2021	0.00036 (J)	<0.001	<0.001			
9/22/2021				<0.001		<0.001
9/23/2021					<0.001	
2/1/2022						<0.001
2/2/2022				<0.001		
2/3/2022	0.00019 (J)	<0.001	<0.001		<0.001	
8/30/2022		<0.001		<0.001		
8/31/2022	0.000431 (J)		<0.001		<0.001	
9/1/2022						<0.001

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Cadmium (mg/L) Analysis Run 12/12/2024 2:01 PM

Grumman Road Landfill Client: Southern Company Data: Grumman Road Landfill

	GWC-11	GWC-12	GWC-13	GWC-14	GWC-15	GWC-16
2/1/2023	0.000926 (J)	<0.001	<0.001			<0.001
2/2/2023				<0.001	<0.001	
8/29/2023			<0.001			
9/6/2023	0.000563 (J)	<0.001		<0.001		<0.001
9/7/2023					<0.001	
1/24/2024	0.000456 (J)				<0.001	
1/25/2024		<0.001	<0.001	<0.001		<0.001
8/21/2024	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Cadmium (mg/L) Analysis Run 12/12/2024 2:01 PM

Grumman Road Landfill Client: Southern Company Data: Grumman Road Landfill

	GWC-17	GWC-2	GWC-20	GWC-21	GWC-22	GWC-9
11/21/2000	<0.001	<0.001				<0.001
1/20/2001	<0.001	<0.001				<0.001
3/14/2001	<0.001	<0.001				<0.001
7/16/2001	<0.001	<0.001				<0.001
11/1/2001	<0.001	<0.001				<0.001
4/25/2002	<0.001	<0.001				<0.001
8/31/2016		<0.001			8E-05 (J)	<0.001
9/1/2016	<0.001		<0.001	<0.001		
10/25/2016			<0.001	<0.001		
10/26/2016	<0.001	<0.001			<0.001	
10/27/2016						<0.001
1/4/2017			<0.001	<0.001	0.0001 (J)	
1/5/2017	<0.001	<0.001				
1/6/2017						<0.001
4/4/2017		<0.001	<0.001	<0.001		
4/5/2017	<0.001					
4/6/2017					0.0001 (J)	<0.001
7/11/2017			<0.001		<0.001	
7/12/2017						<0.001
7/13/2017	<0.001	<0.001		<0.001		
10/2/2017			<0.001			
10/3/2017		<0.001		<0.001		
10/4/2017	<0.001				0.0002 (J)	<0.001
1/9/2018				<0.001		
1/10/2018		<0.001	<0.001			
1/11/2018	<0.001				0.0002 (J)	<0.001
7/9/2018			<0.001			
7/10/2018		<0.001		<0.001		
7/11/2018	<0.001				0.00023 (J)	<0.001
7/30/2019		<0.001				
8/27/2019		<0.001			<0.001	
8/28/2019	<0.001		<0.001	<0.001		<0.001
10/8/2019				<0.001		
10/9/2019	<0.001	<0.001	<0.001		0.00012 (J)	<0.001
4/7/2020				<0.001	0.00054 (J)	
4/8/2020	<0.001	<0.001	<0.001			<0.001
8/18/2020	<0.001	<0.001	<0.001	<0.001	0.00024 (J)	
8/19/2020						<0.001
9/29/2020		<0.001				
9/30/2020	<0.001		<0.001	<0.001	0.00024 (J)	
10/1/2020						<0.001
3/10/2021					<0.001	<0.001
3/11/2021	<0.001					
3/12/2021			0.00018 (J)			
3/15/2021		<0.001				
3/16/2021				<0.001		
9/21/2021					<0.001	
9/22/2021	<0.001	<0.001	0.00013 (J)	<0.001		<0.001
2/1/2022	<0.001		0.0002 (J)	<0.001		
2/2/2022		<0.001				<0.001
2/3/2022					<0.001	
8/30/2022			<0.001	<0.001		

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Cadmium (mg/L) Analysis Run 12/12/2024 2:01 PM

Grumman Road Landfill Client: Southern Company Data: Grumman Road Landfill

	GWC-17	GWC-2	GWC-20	GWC-21	GWC-22	GWC-9
8/31/2022	<0.001				<0.001	
9/1/2022		<0.001				<0.001
2/1/2023	<0.001		<0.001			<0.001
2/2/2023		<0.001		<0.001	<0.001	
8/29/2023	<0.001	<0.001			<0.001	<0.001
9/6/2023			0.000823 (J)	<0.001		
1/23/2024					<0.001	
1/24/2024	<0.001		<0.001			<0.001
1/25/2024		<0.001		<0.001		
8/21/2024	<0.001	<0.001	<0.001		<0.001	<0.001
8/22/2024				<0.001		

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Cadmium (mg/L) Analysis Run 12/12/2024 2:01 PM

Grumman Road Landfill Client: Southern Company Data: Grumman Road Landfill

	MW-23D	MW-24D	MW-25D	MW-26D
3/11/2021	<0.001	<0.001	0.00019 (J)	0.00029 (J)
9/21/2021				<0.001
9/22/2021	0.00027 (J)	<0.001		
9/23/2021			<0.001	
2/1/2022		<0.001		
2/2/2022				<0.001
2/3/2022	<0.001		<0.001	
8/31/2022	<0.001		<0.001	
9/1/2022		<0.001		
2/1/2023	<0.001			
2/2/2023		<0.001	<0.001	
9/6/2023	<0.001	<0.001		
9/7/2023			<0.001	
1/24/2024	<0.001			
1/25/2024		<0.001	<0.001	0.000616 (J)
8/20/2024				<0.001
8/21/2024	<0.001	<0.001	<0.001	

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Calcium (mg/L) Analysis Run 12/12/2024 2:01 PM

Grumman Road Landfill Client: Southern Company Data: Grumman Road Landfill

	GWA-7 (bg)	GWA-8 (bg)	GWB-4R	GWB-5R	GWB-6R	GWC-1
8/30/2016		23.8		14.3	4.68	29.4
9/1/2016	5.59		9.91			
10/24/2016		22.5				
10/25/2016	6.43					28.3
10/26/2016			8.56	18.6	5.45	
1/3/2017		22.1		18.1		
1/4/2017						33.4
1/5/2017					5.35	
1/6/2017	8.13		8.18			
4/3/2017		24.6 (J)				
4/4/2017			8.12			34.6
4/6/2017	7.72			16.2	5.41	
7/11/2017		23.5				
7/12/2017			8	18.1	4.81	38
7/13/2017	4.57					
10/2/2017		22.7				
10/3/2017				15.2	5.17	25.5
10/4/2017	6.41		12.5			
1/9/2018	4.68	23.2			4.73	
1/10/2018				15.5		36.5
1/11/2018			12.9			
7/9/2018		24.6 (J)				
7/10/2018				30.6	4.5	45.5
7/11/2018	3.9		8.6			
1/16/2019	4.3	27.7	68.8	33.3	10.1	46.5
3/25/2019	3.9	31.7	55.6			
3/26/2019				36.1	9	46.3
10/7/2019		31.6				
10/8/2019	3.5					
10/9/2019			46.7	17.7	10.1	51.2
4/6/2020	3.1	35.8				
4/7/2020			62.1	34.1	7.8	31.1
9/28/2020	3.3	25.6				70.7
9/30/2020				70.4	27.5	
10/1/2020			48.4			
3/10/2021			263	134	55.9	67.2
3/11/2021	2.4					
3/12/2021		21.4				
9/21/2021	2.7	18.5	67.5	140	110	
9/23/2021						69.1
1/31/2022	3.4	17.2				
2/2/2022			98.2		293	
2/3/2022				130		58.2
8/30/2022	3.56	15	79.3	70.3	81.8	
9/1/2022						46.9
1/31/2023	3.33	14.8				
2/1/2023				38.3	60.4	
2/2/2023			91.8			35.2
8/28/2023	3.72	13.6				
8/29/2023			133	46.8	120	53.9
1/23/2024	3.56	16.6			66.8	47.2
2/7/2024			212			

Time Series

Constituent: Calcium (mg/L) Analysis Run 12/12/2024 2:01 PM

Grumman Road Landfill Client: Southern Company Data: Grumman Road Landfill

	GWA-7 (bg)	GWA-8 (bg)	GWB-4R	GWB-5R	GWB-6R	GWC-1
2/8/2024				24.2		
8/19/2024	3.36					
8/20/2024			188		99.1	37.8
8/21/2024		18.6		30		

Time Series

Constituent: Calcium (mg/L) Analysis Run 12/12/2024 2:01 PM

Grumman Road Landfill Client: Southern Company Data: Grumman Road Landfill

	GWC-11	GWC-12	GWC-13	GWC-14	GWC-15	GWC-16
8/31/2016	18.8	105	2.77			
9/1/2016				194	119	93.8
10/25/2016				100	106	94.1
10/26/2016	16.6	101	2.25			
1/4/2017	17.6	94.9				88.2
1/5/2017			2.27	107	115	
4/3/2017					131	
4/4/2017				153		
4/5/2017		92.5				106
4/6/2017	30.9		2.04			
7/10/2017		90.3				
7/11/2017	17.7			125	155	
7/12/2017			2.25			149
10/2/2017				126	137	
10/3/2017	39.8					217
10/4/2017		74.6	2.19			
1/9/2018				119	135	
1/10/2018			2.28			161
1/11/2018	65.6	78.1				
7/9/2018				123		
7/10/2018					129	205
7/11/2018	53	72.2	2.3			
1/16/2019			2.3	120		
1/17/2019	19.8 (J)	64.7			137	187
3/26/2019			2.4	84.2	124	204
3/27/2019	25.1	63.1				
10/8/2019	69.2		2.3	146	129	205
10/9/2019		54.2				
4/7/2020	84.7	52.1		135	129	225
4/8/2020			2.5			
9/28/2020			2.9			
9/29/2020	123	42		30.8		
9/30/2020					109	177
3/10/2021	126	53.1				
3/12/2021					101	
3/15/2021			2.4			
3/16/2021				34.4		188
9/21/2021	87	63.4	3.6			
9/22/2021				185		267
9/23/2021					146	
2/1/2022						267
2/2/2022				245		
2/3/2022	65.4	63.7	2.7		144	
8/30/2022		70.8		144		
8/31/2022	115		2.54		135	
9/1/2022						255
2/1/2023	187	67.5	2.89			294
2/2/2023				137	131	
8/29/2023			3.64			
9/6/2023	160	77.4		145		311
9/7/2023					142	
1/24/2024	128				141	

Time Series

Constituent: Calcium (mg/L) Analysis Run 12/12/2024 2:01 PM

Grumman Road Landfill Client: Southern Company Data: Grumman Road Landfill

	GWC-11	GWC-12	GWC-13	GWC-14	GWC-15	GWC-16
1/25/2024		78.5	4.19	107		280
8/21/2024	102	79.6	5.23	49.5	135	232

Time Series

Constituent: Calcium (mg/L) Analysis Run 12/12/2024 2:01 PM

Grumman Road Landfill Client: Southern Company Data: Grumman Road Landfill

	GWC-17	GWC-2	GWC-20	GWC-21	GWC-22	GWC-9
8/31/2016		0.371 (J)			127	6.9
9/1/2016	71.9		67.2	40.5		
10/25/2016			50.1	3.91		
10/26/2016	80.3	5.84			127	
10/27/2016						8.2
1/4/2017			80.4	15.2	113	
1/5/2017	94.4	0.379 (J)				
1/6/2017						7.97
4/4/2017		0.993	108	32.3		
4/5/2017	104					
4/6/2017					42.7	7.95
7/11/2017			136		46	
7/12/2017						8.37
7/13/2017	124	0.388 (J)		8.92		
10/2/2017			105			
10/3/2017		0.251 (J)		7.88		
10/4/2017	136				115	8.57
1/9/2018				40.5		
1/10/2018		0.177 (J)	60.1			
1/11/2018	139				47.6	9.78
7/9/2018			75.9			
7/10/2018		0.17 (J)		29.8		
7/11/2018	122				73.7	9.2
1/16/2019	80.5					
1/17/2019				27.6		
1/18/2019					30.6	8.1
1/21/2019		0.19 (J)	60			
3/25/2019			74.8			
3/26/2019	68.8			60.1		
3/27/2019					28.8	7.7
7/30/2019		0.43				
10/8/2019				49.5		
10/9/2019	56.6	0.18	80.1		30.1	6
4/7/2020				12.5	65.7	
4/8/2020	53.1	0.24 (J)	175			5.3
9/29/2020		0.18 (J)				
9/30/2020	53.5		292	98.4	20.9	
10/1/2020						5.5
3/10/2021					18.7	5.3
3/11/2021	67					
3/12/2021			241			
3/15/2021		0.22 (J)				
3/16/2021				104		
9/21/2021					15.3	
9/22/2021	94.6	0.19 (J)	266	5.8		5
2/1/2022	90.8		259	125		
2/2/2022		0.16 (J)				4.6
2/3/2022					14.6	
8/30/2022			193	131		
8/31/2022	102				23.2	
9/1/2022		0.236				5
2/1/2023	86.8		183			4.44

Time Series

Constituent: Calcium (mg/L) Analysis Run 12/12/2024 2:01 PM

Grumman Road Landfill Client: Southern Company Data: Grumman Road Landfill

	GWC-17	GWC-2	GWC-20	GWC-21	GWC-22	GWC-9
2/2/2023		0.143 (J)		123	21.6	
8/29/2023	86.5	0.165 (J)			147	4.38
9/6/2023			151	142		
1/23/2024					15.1	
1/24/2024	88.7		134			4.4
1/25/2024		0.17 (J)		150		
8/21/2024	78.9	0.156 (J)	169		13.3	4.68
8/22/2024				85		

Time Series

Constituent: Calcium (mg/L) Analysis Run 12/12/2024 2:01 PM

Grumman Road Landfill Client: Southern Company Data: Grumman Road Landfill

	MW-23D	MW-24D	MW-25D	MW-26D
1/20/2021			4.9	4.1
1/21/2021	4.4	2.8		
3/11/2021	12.4	5.4	4.7	3.1
9/21/2021				2.5
9/22/2021	14.9	4.7		
9/23/2021			3.4	
2/1/2022		3.7		
2/2/2022				2.3
2/3/2022	11.6		3	
8/31/2022	10.3		3.38	
9/1/2022		2.75		
2/1/2023	8.46			
2/2/2023		2.5	3.09	
9/6/2023	8.49	2.96		
9/7/2023			3.17	
1/24/2024	6.96			
1/25/2024		2.65	3.5	2.9
8/20/2024				2.31
8/21/2024	8.39	2.54	3.06	

Time Series

Constituent: Chloride (mg/L) Analysis Run 12/12/2024 2:01 PM

Grumman Road Landfill Client: Southern Company Data: Grumman Road Landfill

	GWA-7 (bg)	GWA-8 (bg)	GWB-4R	GWB-5R	GWB-6R	GWC-1
8/30/2016		15		31	60	5.5
9/1/2016	190		160			
10/24/2016		13				
10/25/2016	175 (D)					5.1
10/26/2016			110	24	67	
1/3/2017		13		29		
1/4/2017						6.9
1/5/2017					70	
1/6/2017	180		67			
4/3/2017		14				
4/4/2017			80			6.5
4/6/2017	200			27	76	
7/11/2017		13				
7/12/2017			120	31	64	6.5
7/13/2017	200					
10/2/2017		15				
10/3/2017				27	73	4.5
10/4/2017	260		130			
1/9/2018	210	13			61	
1/10/2018				59		6.9
1/11/2018			60			
7/9/2018		15.4				
7/10/2018				172	60.2	6.2
7/11/2018	177		75.9			
1/16/2019	165	16	20.2	49.7	54.1	6.6
3/25/2019	147	17.7	19.7			
3/26/2019				47.9	51.8	7
10/7/2019		18				
10/8/2019	125					
10/9/2019			32.1	239	49.7	7.2
4/6/2020	30.2	13.5				
4/7/2020			14.5	44.3	56.4	7.7
9/28/2020	113	13.7				13.8
9/30/2020				24.1	53.9	
10/1/2020			15.7			
3/10/2021			16	25.7	42.4	8.5
3/11/2021	96.7					
3/12/2021		14.1				
9/21/2021	92.2	12.2	13.9	38.8	53.8	
9/23/2021						8.8
1/31/2022	83.4	11.2				
2/2/2022			14.5		42.3	
2/3/2022				38.5		8
8/30/2022	74.4	9.93	65	76.8	52	
9/1/2022						9.17
1/31/2023	70.1	11				
2/1/2023				172	51.6	
2/2/2023			82.4			6.47
8/28/2023	91.9	10.1				
8/29/2023			66	61.8	53.2	7.48
1/23/2024	105	13.4			55.4	6.4
1/24/2024				279		

Time Series

Constituent: Chloride (mg/L) Analysis Run 12/12/2024 2:01 PM

Grumman Road Landfill Client: Southern Company Data: Grumman Road Landfill

	GWA-7 (bg)	GWA-8 (bg)	GWB-4R	GWB-5R	GWB-6R	GWC-1
1/25/2024			110			
8/19/2024	86.5					
8/20/2024			114		53	8.85
8/21/2024		18.2		138		

Time Series

Constituent: Chloride (mg/L) Analysis Run 12/12/2024 2:01 PM

Grumman Road Landfill Client: Southern Company Data: Grumman Road Landfill

	GWC-11	GWC-12	GWC-13	GWC-14	GWC-15	GWC-16
8/31/2016	3.5	210	4.3			
9/1/2016				60	10	43
10/25/2016				36	6.5	34
10/26/2016	2.5	200	4.9			
1/4/2017	3.8	160				29
1/5/2017			4.1	37	10	
4/3/2017					7.3	
4/4/2017				47		
4/5/2017		140				36
4/6/2017	7.1		3.7			
7/10/2017		88				
7/11/2017	3.1			34	5.7	
7/12/2017			2.6			44
10/2/2017				34	4.4	
10/3/2017	46					58
10/4/2017		100	3			
1/9/2018				24	5.7	
1/10/2018			3.4			36
1/11/2018	100	78				
7/9/2018				25.9		
7/10/2018					3.1	57
7/11/2018	53.7	66.9	3.2			
1/16/2019			3.8	29.2		
1/17/2019	6.6	52			3.2	48.9
3/26/2019			3.2	21.1	3	5.1
3/27/2019	11.9	45.6				
10/8/2019	89		4	40.2	2.9	46.4
10/9/2019		44.1				
4/7/2020	103	32.5		41.6	3.4	49.3
4/8/2020			4.5			
9/28/2020			4.3			
9/29/2020	143	24.3		10.6		
9/30/2020					1.7	39.6
3/10/2021	188	48.7				
3/12/2021					2.3	
3/15/2021			7.6			
3/16/2021				15.8		44.9
9/21/2021	103	63.8	7.9			
9/22/2021				28		55.8
9/23/2021					7.1	
2/1/2022						61.5
2/2/2022				29.6		
2/3/2022	83.4	57	8.8		5.1	
8/30/2022		58.4		26.7		
8/31/2022	110		6.69		4.83	
9/1/2022						57.2
2/1/2023	138	64.5	6.17			47.1
2/2/2023				18.2	4.69	
8/29/2023			7.34			
9/6/2023	98	74.1		22.7		45.9
9/7/2023					4.46	
1/24/2024	75.6				5.13	

Time Series

Constituent: Chloride (mg/L) Analysis Run 12/12/2024 2:01 PM

Grumman Road Landfill Client: Southern Company Data: Grumman Road Landfill

	GWC-11	GWC-12	GWC-13	GWC-14	GWC-15	GWC-16
1/25/2024		84.4	7.26	18.5		39.1
8/21/2024	48.9	117	6.83	24.3	5.49	34.8

Time Series

Constituent: Chloride (mg/L) Analysis Run 12/12/2024 2:01 PM

Grumman Road Landfill Client: Southern Company Data: Grumman Road Landfill

	GWC-17	GWC-2	GWC-20	GWC-21	GWC-22	GWC-9
8/31/2016		7.8			320	17
9/1/2016	610		16	5.9		
10/25/2016			8.1	4.4		
10/26/2016	570	12			450	
10/27/2016						17
1/4/2017			13	7.7	330	
1/5/2017	710	7.4				
1/6/2017						16
4/4/2017		8.7	23	8		
4/5/2017	860					
4/6/2017					50	17
7/11/2017			31		70	
7/12/2017						18
7/13/2017	860	8.3		5.4		
10/2/2017			30			
10/3/2017		9		4.4		
10/4/2017	1000				360	18
1/9/2018				4.4		
1/10/2018		8.2	9.7			
1/11/2018	940				74	16
7/9/2018			10.8			
7/10/2018		7.3		6.3		
7/11/2018	864				164	16.2
1/16/2019	469					
1/17/2019				5.4		
1/18/2019					11	17.5
1/21/2019		6.9	5.1			
3/25/2019			9.4			
3/26/2019	439			11.9		
3/27/2019					11.5	18.9
7/30/2019		7.1				
10/8/2019				7.8		
10/9/2019	330	7	5.4		25.3	19
4/7/2020				4.7	146	
4/8/2020	277	5.2	20.2			16.9
9/29/2020		5.4				
9/30/2020	257		34.9	23.7	8.5	
10/1/2020						16.8
3/10/2021					48.2	18.3
3/11/2021	334					
3/12/2021			31.9			
3/15/2021		6.4				
3/16/2021				25.3		
9/21/2021					9.4	
9/22/2021	517	7.4	38.9	6		19.3
2/1/2022	549		33.4	29.3		
2/2/2022		6.9				17.5
2/3/2022					10.8	
8/30/2022			24.4	29.4		
8/31/2022	694				51.2	
9/1/2022		6.59				17.6
2/1/2023	470		15.3			18.8

Time Series

Constituent: Chloride (mg/L) Analysis Run 12/12/2024 2:01 PM

Grumman Road Landfill Client: Southern Company Data: Grumman Road Landfill

	GWC-17	GWC-2	GWC-20	GWC-21	GWC-22	GWC-9
2/2/2023		5.42		23.3	18.2	
8/29/2023	476	4.97			521	21.1
9/6/2023			12.2	24.5		
1/23/2024					9.89	
1/24/2024	476		7.57			22.4
1/25/2024		5.09		23.4		
8/21/2024	479	5.61	13.1		10.5	24
8/22/2024				15.8		

Time Series

Constituent: Chloride (mg/L) Analysis Run 12/12/2024 2:01 PM

Grumman Road Landfill Client: Southern Company Data: Grumman Road Landfill

	MW-23D	MW-24D	MW-25D	MW-26D
1/20/2021			6.1	6.9
1/21/2021	6.1	6.1		
3/11/2021	9.9	6	6.4	7
9/21/2021				6.7
9/22/2021	7.1	4.9		
9/23/2021			5.5	
2/1/2022		5.4		
2/2/2022				6.6
2/3/2022	7.5		6.3	
8/31/2022	7.84		6.6	
9/1/2022		6.3		
2/1/2023	7.71			
2/2/2023		6.04	6.24	
9/6/2023	7.65	5.82		
9/7/2023			6.19	
1/24/2024	7.94			
1/25/2024		5.7	5.87	6.71
8/20/2024				6.92
8/21/2024	9.04	6.37	6.61	

Time Series

Constituent: Chromium (mg/L) Analysis Run 12/12/2024 2:01 PM

Grumman Road Landfill Client: Southern Company Data: Grumman Road Landfill

	GWA-7 (bg)	GWA-8 (bg)	GWB-4R	GWB-5R	GWB-6R	GWC-1
9/29/2000	<0.05	<0.01	0.021	0.03	0.016	<0.01
11/21/2000	<0.05		0.017	<0.01	0.023	<0.01
1/20/2001	<0.05	<0.01	0.03	0.028	0.025	<0.01
3/14/2001	<0.05	<0.01	0.019	0.052	0.021	<0.01
7/16/2001	<0.05	<0.01	0.029	0.08	0.019	<0.01
11/1/2001	<0.05	<0.01	0.021	0.13 (O)	0.022	<0.01
4/25/2002	<0.05	<0.01	0.03	0.021	0.019	<0.01
11/20/2002		0.0051	0.038	0.053	0.024	<0.01
6/6/2003	0.037	0.014	0.028	0.064	0.021	0.005
12/12/2003	0.0044	0.011	0.027	<0.01	0.0066	<0.01
5/26/2004	<0.05	<0.01	0.021	0.012	0.013	<0.01
12/7/2004	<0.05	<0.01	0.016	0.019	0.013	<0.01
6/21/2005	<0.05	<0.01	0.015	0.02	0.0067	<0.01
12/12/2005	<0.05	<0.01	0.022	<0.01	0.0033	0.002
4/4/2006		<0.01				
6/27/2006	<0.05	<0.01	0.027	0.0015	0.0047	<0.01
8/30/2006		<0.01				
12/4/2006	0.0015	<0.01	0.025	0.0034	0.0084	<0.01
2/15/2007		<0.01				
6/23/2007	<0.05	<0.01	0.023	<0.01	0.01	<0.01
9/11/2007		<0.01				
12/11/2007	0.0016	<0.01	0.018	<0.01	0.0049	<0.01
3/11/2008		<0.01				
6/23/2008	0.0019	<0.01				
6/24/2008			0.022	<0.01	0.032 (O)	<0.01
11/3/2008		<0.01				
12/4/2008	<0.05	<0.01				
12/5/2008			0.023	0.0016	0.009	<0.01
3/25/2009		<0.01				
7/7/2009	0.0037	<0.01	0.012	<0.01	0.0044	0.0013
9/14/2009		<0.01				
12/20/2009	0.0016	<0.01				<0.01
12/21/2009			0.019	<0.01	0.0055	
3/4/2010		<0.01				
6/20/2010	<0.05	<0.01		<0.01	0.002	<0.01
6/21/2010			0.01			
9/14/2010		<0.01				
1/6/2011				0.0017		<0.01
1/7/2011	0.0033	<0.01	0.023		0.0039	
4/15/2011		<0.01				
7/7/2011	0.0044	<0.01		0.008	0.0031	<0.01
7/8/2011			0.017			
9/25/2011		0.0021				
1/17/2012	0.0038	<0.01		0.0082		<0.01
1/18/2012			0.0114		0.0023	
4/4/2012		<0.01				
7/9/2012	0.022			0.01		<0.01
7/10/2012		<0.01	0.014		0.0022	
10/9/2012		<0.01				
1/17/2013				0.01		<0.01
1/18/2013	0.034	<0.01	0.015		<0.0013	
4/5/2013		<0.01				

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Chromium (mg/L) Analysis Run 12/12/2024 2:01 PM

Grumman Road Landfill Client: Southern Company Data: Grumman Road Landfill

	GWA-7 (bg)	GWA-8 (bg)	GWB-4R	GWB-5R	GWB-6R	GWC-1
7/16/2013				0.0061		<0.01
7/17/2013	0.032	<0.01	0.011		<0.0013	
10/11/2013		<0.01				
1/13/2014	0.04			0.002		<0.01
1/14/2014		<0.01	0.019		0.0013	
4/3/2014		<0.01				
7/9/2014	0.036	<0.01	0.012	<0.01	<0.0013	0.0011 (J)
10/24/2014		<0.01				
1/12/2015			0.016			
1/13/2015	0.03			<0.01		<0.01
1/14/2015		<0.01			0.0015	
5/10/2015		<0.01				
7/16/2015	0.039		0.0084	<0.01		0.0011 (J)
7/17/2015		<0.01			0.0011 (J)	
10/6/2015		<0.01				
1/17/2016						<0.01
1/18/2016	0.068	<0.01	0.014	<0.01	0.0011 (J)	
4/26/2016		<0.01				
7/27/2016	0.05			0.0006 (J)		0.0016 (J)
7/28/2016		<0.01			0.001 (J)	
7/29/2016			0.0077 (J)			
8/30/2016		<0.01		<0.01	0.0013 (J)	0.0015 (J)
9/1/2016	0.119 (O)		0.015			
10/24/2016		<0.01				
10/25/2016	0.0519					0.0018 (J)
10/26/2016			0.0106	<0.01	0.0014 (J)	
1/3/2017		<0.01		0.001 (J)		
1/4/2017						0.0021 (J)
1/5/2017					0.002 (J)	
1/6/2017	0.0536		0.0098 (J)			
4/3/2017		0.0004 (J)				
4/4/2017			0.0101			0.002 (J)
4/6/2017	0.0447 (J)			0.0013 (J)	0.0034 (J)	
7/11/2017		0.0006 (J)				
7/12/2017			0.0096 (J)	0.0011 (J)	0.0024 (J)	0.0021 (J)
7/13/2017	0.0269					
10/2/2017		<0.01				
10/3/2017				0.0012 (J)	0.0022 (J)	0.0014 (J)
10/4/2017	0.0378		0.0097 (J)			
1/9/2018	0.0283 (J)	<0.01			0.0019 (J)	
1/10/2018				0.0016 (J)		0.0017 (J)
1/11/2018			0.0109			
7/9/2018		<0.01				
7/10/2018				0.0055 (J)	0.0023 (J)	0.0021 (J)
7/11/2018	0.018 (J)		0.0055 (J)			
1/16/2019	0.018 (J)	<0.01	0.0024 (J)	<0.01	0.018 (J)	0.0021 (J)
3/25/2019	0.017 (J)	<0.01	0.002 (J)			
3/26/2019				0.072	0.017 (J)	0.0018 (J)
8/26/2019	0.024 (J)	0.001 (J)				
8/27/2019			0.0027 (J)		0.0097 (J)	0.0062 (J)
8/28/2019				0.0071 (J)		
10/7/2019		0.00052 (J)				

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Chromium (mg/L) Analysis Run 12/12/2024 2:01 PM

Grumman Road Landfill Client: Southern Company Data: Grumman Road Landfill

	GWA-7 (bg)	GWA-8 (bg)	GWB-4R	GWB-5R	GWB-6R	GWC-1
10/8/2019	0.021 (J)					
10/9/2019			0.002 (J)	0.012 (J)	0.011 (J)	0.0019 (J)
4/6/2020	0.015 (J)	<0.01				
4/7/2020			0.0028 (J)	0.0022 (J)	0.0094 (J)	0.0015 (J)
8/17/2020		0.00082 (J)				
8/19/2020	0.015 (J)		0.0022 (J)	0.0012 (J)	0.0037 (J)	0.0028 (J)
9/28/2020	0.014 (J)	0.00071 (J)				0.0024 (J)
9/30/2020				0.0018 (J)	0.0045 (J)	
10/1/2020			0.002 (J)			
3/10/2021			0.003 (J)	0.001 (J)	0.006	0.0023 (J)
3/11/2021	0.02 (J)					
3/12/2021		0.00074 (J)				
9/21/2021	0.013 (J)	<0.01	0.0018 (J)	<0.01	0.0035 (J)	
9/23/2021						0.0023 (J)
1/31/2022	0.015 (J)	<0.01				
2/2/2022			0.003 (J)		0.0033 (J)	
2/3/2022				0.0014 (J)		0.0019 (J)
8/30/2022	0.0129	<0.01	<0.01	<0.01	0.00356 (J)	
9/1/2022						<0.01
1/31/2023	0.0112	<0.01				
2/1/2023				0.00655 (J)	0.00365 (J)	
2/2/2023			0.00502 (J)			<0.01
8/28/2023	0.0139	<0.01				
8/29/2023			0.00389 (J)	<0.01	0.00349 (J)	0.00337 (J)
1/23/2024	<0.05	<0.01			0.00402 (J)	<0.01
2/7/2024			0.00352 (J)			
2/8/2024				0.0147		
8/19/2024	0.0123					
8/20/2024			0.00544 (J)		0.00339 (J)	<0.01
8/21/2024		<0.01		0.00542 (J)		

Time Series

Constituent: Chromium (mg/L) Analysis Run 12/12/2024 2:01 PM

Grumman Road Landfill Client: Southern Company Data: Grumman Road Landfill

	GWC-11	GWC-12	GWC-13	GWC-14	GWC-15	GWC-16
9/29/2000	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
11/21/2000	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
1/20/2001	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
3/14/2001	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
7/16/2001	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
11/1/2001	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
4/25/2002	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
11/20/2002	0.006	0.002	<0.01	0.014	0.0058	0.0041
6/6/2003	0.0082	<0.01	0.003	<0.01	0.0068	0.063 (O)
12/12/2003	0.0023	<0.01	<0.01	<0.01	0.0041	0.0059
5/26/2004	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
12/7/2004	<0.01	<0.01	<0.01	<0.01	0.0026	<0.01
6/21/2005	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
12/12/2005	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
4/4/2006				<0.01		<0.01
6/27/2006	<0.01	<0.01	<0.01	<0.01	0.0013	<0.01
8/30/2006				<0.01		<0.01
12/4/2006	0.0021	0.0032	0.0017	0.0042	<0.01	0.0036
2/15/2007				<0.01		<0.01
6/23/2007	0.0017	<0.01	<0.01	<0.01	<0.01	0.0016
9/11/2007				<0.01		<0.01
12/11/2007	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
3/11/2008				<0.01		<0.01
6/23/2008	<0.01	0.0016	<0.01			
6/24/2008				<0.01	0.0014	<0.01
11/3/2008				<0.01		0.0025
12/4/2008	<0.01	<0.01	<0.01	<0.01		
12/5/2008					<0.01	<0.01
3/25/2009				<0.01		<0.01
7/8/2009	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
9/14/2009				<0.01		<0.01
12/20/2009				<0.01	<0.01	<0.01
12/21/2009	<0.01	<0.01	<0.01			
3/4/2010				<0.01		<0.01
6/20/2010	<0.01	<0.01	<0.01	<0.01	<0.01	
6/21/2010						<0.01
9/14/2010				<0.01		<0.01
1/6/2011	<0.01		<0.01			
1/7/2011		<0.01		0.0016	<0.01	0.0018
4/15/2011				0.0034		<0.01
7/7/2011	0.0023	<0.01	0.0019	<0.01	<0.01	<0.01
9/25/2011				0.0013		<0.01
1/17/2012	<0.01	<0.01	<0.01	<0.01	<0.01	
1/18/2012						<0.01
4/4/2012				<0.01		<0.01
7/9/2012	0.0017	<0.01	<0.01	<0.01	<0.01	
7/10/2012						<0.01
10/9/2012				0.0019		0.0018
1/17/2013	<0.01	<0.01	<0.01			
1/18/2013				0.0017	<0.01	<0.01
4/5/2013				0.0019		<0.01
7/16/2013	<0.01	<0.01	<0.01			

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Chromium (mg/L) Analysis Run 12/12/2024 2:01 PM

Grumman Road Landfill Client: Southern Company Data: Grumman Road Landfill

	GWC-11	GWC-12	GWC-13	GWC-14	GWC-15	GWC-16
7/17/2013				0.0017	<0.01	<0.01
10/11/2013				0.0013		<0.01
1/13/2014	<0.01	<0.01	<0.01		<0.01	
1/14/2014				0.001		<0.01
4/3/2014				0.0031		<0.01
7/8/2014	<0.01	<0.01	<0.01			
7/9/2014				0.0012 (J)	<0.01	<0.01
10/24/2014				<0.01		<0.01
1/13/2015	<0.01	<0.01	<0.01		<0.01	
1/14/2015				0.0013		<0.01
5/10/2015				<0.01		
5/11/2015						<0.01
7/16/2015	<0.01	0.001 (J)	<0.01		<0.01	<0.01
7/17/2015				0.001 (J)		
10/6/2015				<0.01		<0.01
1/17/2016				0.0012 (J)	<0.01	<0.01
1/18/2016		<0.01	<0.01			
1/19/2016	<0.01					
4/26/2016				<0.01		<0.01
7/26/2016	0.0005 (J)		<0.01			
7/27/2016		0.0014 (J)		0.0008 (J)	0.0007 (J)	
7/28/2016						0.0006 (J)
8/31/2016	0.001 (J)	0.0012 (J)	0.0011 (J)			
9/1/2016				0.0015 (J)	0.0011 (J)	0.0011 (J)
10/25/2016				<0.01	<0.01	<0.01
10/26/2016	<0.01	0.0012 (J)	<0.01			
1/4/2017	<0.01	0.0012 (J)				<0.01
1/5/2017			<0.01	0.001 (J)	<0.01	
4/3/2017					0.0015 (J)	
4/4/2017				0.001 (J)		
4/5/2017		0.0013 (J)				0.001 (J)
4/6/2017	0.0007 (J)		0.0011 (J)			
7/10/2017		0.0014 (J)				
7/11/2017	0.0006 (J)			0.0008 (J)	0.0013 (J)	
7/12/2017			0.0007 (J)			0.0011 (J)
10/2/2017				0.0009 (J)	0.0013 (J)	
10/3/2017	0.0007 (J)					0.0009 (J)
10/4/2017		0.0011 (J)	0.0008 (J)			
1/9/2018				0.0006 (J)	0.0012 (J)	
1/10/2018			0.0007 (J)			0.0007 (J)
1/11/2018	0.0098 (J)	0.001 (J)				
7/9/2018				<0.01		
7/10/2018					<0.01	<0.01
7/11/2018	<0.01	<0.01	0.0019 (J)			
1/16/2019			<0.01	<0.01		
1/17/2019	<0.01	0.0028 (J)			<0.01	0.01 (J)
3/26/2019			<0.01	<0.01	<0.01	<0.01
3/27/2019	<0.01	<0.01				
8/27/2019	0.00092 (J)	0.00085 (J)	<0.01	0.001 (J)	0.0016 (J)	
8/28/2019						0.0011 (J)
10/8/2019	0.00091 (J)		<0.01	0.00053 (J)	0.0017 (J)	0.00099 (J)
10/9/2019		0.00081 (J)				

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Chromium (mg/L) Analysis Run 12/12/2024 2:01 PM

Grumman Road Landfill Client: Southern Company Data: Grumman Road Landfill

	GWC-11	GWC-12	GWC-13	GWC-14	GWC-15	GWC-16
4/7/2020	0.00094 (J)	0.00082 (J)		0.00074 (J)	0.0014 (J)	<0.01
4/8/2020			0.00058 (J)			
8/17/2020		0.001 (J)	0.00077 (J)			
8/18/2020	0.0015 (J)			0.00059 (J)	0.0018 (J)	0.0012 (J)
9/28/2020			0.00062 (J)			
9/29/2020	0.0011 (J)	0.00085 (J)		<0.01		
9/30/2020					0.0016 (J)	0.00098 (J)
3/10/2021	0.0013 (J)	0.00091 (J)				
3/12/2021					0.0031 (J)	
3/15/2021			<0.01			
3/16/2021				<0.01		0.0012 (J)
9/21/2021	<0.01	<0.01	<0.01			
9/22/2021				<0.01		0.0018 (J)
9/23/2021					0.0013 (J)	
2/1/2022						<0.01
2/2/2022				<0.01		
2/3/2022	0.0011 (J)	0.0018 (J)	<0.01		0.0016 (J)	
8/30/2022		<0.01		<0.01		
8/31/2022	<0.01		<0.01		<0.01	
9/1/2022						<0.01
2/1/2023	<0.01	<0.01	<0.01			<0.01
2/2/2023				<0.01	<0.01	
8/29/2023			<0.01			
9/6/2023	<0.01	<0.01		<0.01		<0.01
9/7/2023					<0.01	
1/24/2024	<0.01				<0.01	
1/25/2024		<0.01	<0.01	<0.01		<0.01
8/21/2024	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Chromium (mg/L) Analysis Run 12/12/2024 2:01 PM

Grumman Road Landfill Client: Southern Company Data: Grumman Road Landfill

	GWC-17	GWC-2	GWC-20	GWC-21	GWC-22	GWC-9
9/29/2000	<0.01					<0.01
11/21/2000	<0.01	<0.01				<0.01
1/20/2001	<0.01	<0.01				<0.01
3/14/2001	<0.01	<0.01				<0.01
7/16/2001	<0.01	<0.01				<0.01
11/1/2001	<0.01	<0.01				<0.01
4/25/2002	<0.01	<0.01				<0.01
11/20/2002	<0.01	<0.01				0.014
6/6/2003	<0.01	<0.01				<0.01
12/12/2003	0.036 (O)	<0.01				<0.01
5/26/2004	<0.01	<0.01				<0.01
12/7/2004	0.0021	<0.01				0.0039
6/21/2005	<0.01	<0.01				0.002
12/12/2005	<0.01	<0.01				<0.01
6/27/2006	<0.01	<0.01				<0.01
12/4/2006	<0.01	<0.01				0.0019
6/23/2007	<0.01	<0.01				0.0015
12/11/2007	<0.01	<0.01				<0.01
6/23/2008						0.0015
6/24/2008	<0.01	<0.01				
12/4/2008		<0.01				<0.01
12/5/2008	<0.01					
7/8/2009	<0.01	<0.01				<0.01
12/20/2009		<0.01				
12/21/2009	<0.01					<0.01
6/20/2010		<0.01				0.0015
6/21/2010	<0.01		<0.01	0.0019	<0.01	
1/6/2011		<0.01				
1/7/2011	<0.01		0.0018	0.0017	<0.01	<0.01
7/7/2011			<0.01			
7/8/2011	0.0013		0.0019	0.0023	<0.01	<0.01
1/17/2012		<0.01				
1/18/2012	<0.01		<0.01	<0.01	<0.01	<0.01
7/9/2012		<0.01				
7/10/2012	<0.01		0.0013	<0.01	<0.01	<0.01
1/17/2013		<0.01				
1/18/2013	<0.01		0.0015	<0.01	<0.01	<0.01
7/17/2013	<0.01	<0.01	<0.01	0.0019	<0.01	<0.01
1/13/2014		<0.01				
1/14/2014	<0.01		0	<0.01	<0.01	<0.01
7/9/2014	<0.01	<0.01		<0.01		0.0011 (J)
7/10/2014			<0.01		<0.01	
1/12/2015			<0.01			
1/13/2015		<0.01				
1/14/2015	<0.01			<0.01	<0.01	<0.01
7/16/2015		<0.01				
7/17/2015				<0.01		0.0013
7/18/2015	<0.01		<0.01		<0.01	
1/17/2016		<0.01	<0.01	<0.01		
1/18/2016	<0.01				<0.01	<0.01
7/27/2016		0.0008 (J)				
7/28/2016			0.0007 (J)	0.0005 (J)		0.0011 (J)

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Chromium (mg/L) Analysis Run 12/12/2024 2:01 PM

Grumman Road Landfill Client: Southern Company Data: Grumman Road Landfill

	GWC-17	GWC-2	GWC-20	GWC-21	GWC-22	GWC-9
7/29/2016	0.0009 (J)				0.0007 (J)	
8/31/2016		<0.01			<0.01	0.0024 (J)
9/1/2016	0.0011 (J)		<0.01	<0.01		
10/25/2016			<0.01	<0.01		
10/26/2016	<0.01	0.001 (J)			<0.01	
10/27/2016						<0.01
1/4/2017			<0.01	<0.01	<0.01	
1/5/2017	0.0012 (J)	<0.01				
1/6/2017						<0.01
4/4/2017		0.0008 (J)	0.0011 (J)	0.0008 (J)		
4/5/2017	0.0015 (J)					
4/6/2017					0.0006 (J)	0.0019 (J)
7/11/2017			0.0009 (J)		0.0005 (J)	
7/12/2017						0.0011 (J)
7/13/2017	0.0012 (J)	0.0006 (J)		0.0006 (J)		
10/2/2017			0.0009 (J)			
10/3/2017		<0.01		0.0005 (J)		
10/4/2017	0.0055 (J)				0.0006 (J)	0.0011 (J)
1/9/2018				0.0007 (J)		
1/10/2018		<0.01	0.0008 (J)			
1/11/2018	0.0009 (J)				<0.01	0.001 (J)
7/9/2018			<0.01			
7/10/2018		<0.01		<0.01		
7/11/2018	<0.01				<0.01	<0.01
1/16/2019	<0.01					
1/17/2019				0.01		
1/18/2019					<0.01	<0.01
1/21/2019		<0.01	<0.01			
3/25/2019			<0.01			
3/26/2019	<0.01			<0.01		
3/27/2019					<0.01	<0.01
7/30/2019		0.00065 (J)				
8/27/2019		<0.01			0.00057 (J)	
8/28/2019	0.0013 (J)		0.00089 (J)	0.00087 (J)		0.00089 (J)
10/8/2019				0.00065 (J)		
10/9/2019	0.00081 (J)	0.00049 (J)	0.0011 (J)		0.00072 (J)	0.0009 (J)
4/7/2020				<0.01	0.00049 (J)	
4/8/2020	0.00073 (J)	0.00069 (J)	0.001 (J)			0.0015 (J)
8/18/2020	0.0011 (J)	<0.01	0.0011 (J)	0.0012 (J)	0.00056 (J)	
8/19/2020						0.0013 (J)
9/29/2020		<0.01				
9/30/2020	0.00096 (J)		0.0013 (J)	0.00067 (J)	0.00064 (J)	
10/1/2020						0.0012 (J)
3/10/2021					<0.01	0.0011 (J)
3/11/2021	0.0009 (J)					
3/12/2021			0.0014 (J)			
3/15/2021		0.0011 (J)				
3/16/2021				0.00075 (J)		
9/21/2021					<0.01	
9/22/2021	<0.01	<0.01	0.0013 (J)	<0.01		<0.01
2/1/2022	0.0014 (J)		0.0036 (J)	<0.01		
2/2/2022		<0.01				0.0012 (J)

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Chromium (mg/L) Analysis Run 12/12/2024 2:01 PM

Grumman Road Landfill Client: Southern Company Data: Grumman Road Landfill

	GWC-17	GWC-2	GWC-20	GWC-21	GWC-22	GWC-9
2/3/2022					<0.01	
8/30/2022			<0.01	<0.01		
8/31/2022	<0.01				<0.01	
9/1/2022		<0.01				<0.01
2/1/2023	<0.01		0.00503 (J)			<0.01
2/2/2023		<0.01		<0.01	<0.01	
8/29/2023	<0.01	<0.01			<0.01	<0.01
9/6/2023			<0.01	<0.01		
1/23/2024					<0.01	
1/24/2024	<0.01		<0.01			<0.01
1/25/2024		<0.01		<0.01		
8/21/2024	<0.01	<0.01	<0.01		<0.01	<0.01
8/22/2024				<0.01		

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Chromium (mg/L) Analysis Run 12/12/2024 2:01 PM

Grumman Road Landfill Client: Southern Company Data: Grumman Road Landfill

	MW-23D	MW-24D	MW-25D	MW-26D
3/11/2021	<0.01	0.00069 (J)	0.0016 (J)	0.002 (J)
9/21/2021				<0.01
9/22/2021	<0.01	<0.01		
9/23/2021			<0.01	
2/1/2022		<0.01		
2/2/2022				<0.01
2/3/2022	<0.01		<0.01	
8/31/2022	<0.01		<0.01	
9/1/2022		<0.01		
2/1/2023	<0.01			
2/2/2023		<0.01	<0.01	
9/6/2023	<0.01	<0.01		
9/7/2023			<0.01	
1/24/2024	<0.01			
1/25/2024		<0.01	<0.01	<0.01
8/20/2024				<0.01
8/21/2024	<0.01	<0.01	<0.01	

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Cobalt (mg/L) Analysis Run 12/12/2024 2:01 PM

Grumman Road Landfill Client: Southern Company Data: Grumman Road Landfill

	GWA-7 (bg)	GWA-8 (bg)	GWB-4R	GWB-5R	GWB-6R	GWC-1
9/29/2000	<0.005	<0.001	<0.005	<0.005	<0.01	<0.001
11/21/2000	<0.005		<0.005	<0.005	<0.01	<0.001
1/20/2001	<0.005	<0.001	<0.005	<0.005	<0.01	<0.001
3/14/2001	<0.005	<0.001	<0.005	<0.005	<0.01	<0.001
7/16/2001	<0.005	<0.001	<0.005	<0.005	<0.01	<0.001
11/1/2001	<0.005	<0.001	<0.005	0.012	<0.01	<0.001
4/25/2002	<0.005	<0.001	<0.005	<0.005	<0.01	<0.001
8/30/2016		<0.001		<0.005	<0.01	<0.001
9/1/2016	0.0102		0.0024 (J)			
10/24/2016		<0.001				
10/25/2016	0.0037 (J)					<0.001
10/26/2016			0.0011 (J)	<0.005	<0.01	
1/3/2017		<0.001		<0.005		
1/4/2017						<0.001
1/5/2017					<0.01	
1/6/2017	0.0039 (J)		0.001 (J)			
4/3/2017		0.0005 (J)				
4/4/2017			0.001 (J)			<0.001
4/6/2017	0.006 (J)			<0.005	<0.01	
7/11/2017		0.0005 (J)				
7/12/2017			0.0008 (J)	<0.005	<0.01	<0.001
7/13/2017	0.0037 (J)					
10/2/2017		0.0004 (J)				
10/3/2017				<0.005	<0.01	<0.001
10/4/2017	0.0058 (J)		0.001 (J)			
1/9/2018	0.0053 (J)	0.0004 (J)			<0.01	
1/10/2018				0.0004 (J)		<0.001
1/11/2018			0.0008 (J)			
7/9/2018		<0.001				
7/10/2018				0.002 (J)	<0.01	<0.001
7/11/2018	<0.05 (O)		<0.005			
8/26/2019	0.0037 (J)	0.00042 (J)				
8/27/2019			0.0011 (J)		0.00038 (J)	<0.001
8/28/2019				0.0024 (J)		
10/7/2019		0.00046 (J)				
10/8/2019	0.0028 (J)					
10/9/2019			0.0015 (J)	0.0037 (J)	<0.025	<0.001
4/6/2020	0.0021 (J)	0.00036 (J)				
4/7/2020			0.0009 (J)	0.00053 (J)	<0.025	<0.001
8/17/2020		<0.001				
8/19/2020	0.0021 (J)		0.00072 (J)	<0.005	<0.005	<0.001
9/28/2020	<0.005	<0.001				<0.001
9/30/2020				0.00056 (J)	<0.005	
10/1/2020			0.0005 (J)			
3/10/2021			0.00069 (J)	0.0057	<0.005	<0.001
3/11/2021	0.0023 (J)					
3/12/2021		0.00058 (J)				
9/21/2021	<0.005	<0.001	<0.005	0.019	0.0049 (J)	
9/23/2021						<0.001
1/31/2022	<0.025 (o)	0.00044 (J)				
2/2/2022			0.0027 (J)		0.07	
2/3/2022				0.019		<0.001

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Cobalt (mg/L) Analysis Run 12/12/2024 2:01 PM

Grumman Road Landfill Client: Southern Company Data: Grumman Road Landfill

	GWA-7 (bg)	GWA-8 (bg)	GWB-4R	GWB-5R	GWB-6R	GWC-1
8/30/2022	0.00134	0.00042 (J)	0.00198	0.00401	0.0476	
9/1/2022						<0.001
1/31/2023	0.00114	0.000378 (J)				
2/1/2023				0.00291	0.0228	
2/2/2023			0.00937			<0.001
8/28/2023	0.00156	<0.001				
8/29/2023			0.0122	0.00139	0.0709	<0.001
1/23/2024	<0.005	0.000302 (J)			0.0222	<0.001
2/7/2024			0.0126			
2/8/2024				0.00521		
8/19/2024	0.0015					
8/20/2024			0.00204		0.0368	<0.001
8/21/2024		0.000413 (J)		0.00156		

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Cobalt (mg/L) Analysis Run 12/12/2024 2:01 PM

Grumman Road Landfill Client: Southern Company Data: Grumman Road Landfill

	GWC-11	GWC-12	GWC-13	GWC-14	GWC-15	GWC-16
9/29/2000	<0.001	<0.01	<0.001	<0.001	<0.001	<0.001
11/21/2000	<0.001	<0.01	<0.001	<0.001	<0.001	<0.001
1/20/2001	<0.001	<0.01	<0.001	<0.001	<0.001	<0.001
3/14/2001	<0.001	<0.01	<0.001	<0.001	<0.001	<0.001
7/16/2001	<0.001	<0.01	<0.001	<0.001	<0.001	<0.001
11/1/2001	<0.001	<0.01	<0.001	<0.001	<0.001	<0.001
4/25/2002	<0.001	<0.01	<0.001	<0.001	<0.001	<0.001
8/31/2016	<0.001	0.0018 (J)	<0.001			
9/1/2016				<0.001	<0.001	<0.001
10/25/2016				<0.001	<0.001	<0.001
10/26/2016	<0.001	0.0016 (J)	<0.001			
1/4/2017	<0.001	0.0014 (J)				<0.001
1/5/2017			<0.001	<0.001	<0.001	
4/3/2017					<0.001	
4/4/2017				<0.001		
4/5/2017		0.0013 (J)				<0.001
4/6/2017	<0.001		<0.001			
7/10/2017		0.0013 (J)				
7/11/2017	<0.001			0.0003 (J)	<0.001	
7/12/2017			<0.001			<0.001
10/2/2017				<0.001	<0.001	
10/3/2017	<0.001					<0.001
10/4/2017		0.0011 (J)	<0.001			
1/9/2018				<0.001	<0.001	
1/10/2018			<0.001			<0.001
1/11/2018	0.0003 (J)	0.0011 (J)				
7/9/2018				<0.001		
7/10/2018					<0.001	<0.001
7/11/2018	<0.001	0.00096 (J)	<0.001			
8/27/2019	<0.001	0.0009 (J)	<0.001	<0.001	<0.001	
8/28/2019						<0.001
10/8/2019	<0.001		<0.001	<0.001	<0.001	<0.001
10/9/2019		0.00094 (J)				
4/7/2020	<0.001	0.00077 (J)		<0.001	<0.001	<0.001
4/8/2020			<0.001			
8/17/2020		0.0006 (J)	<0.001			
8/18/2020	0.0004 (J)			<0.001	<0.001	<0.001
9/28/2020			<0.001			
9/29/2020	0.00055 (J)	0.00057 (J)		<0.001		
9/30/2020					<0.001	<0.001
3/10/2021	0.00082 (J)	0.00071 (J)				
3/12/2021					<0.001	
3/15/2021			<0.001			
3/16/2021				<0.001		<0.001
9/21/2021	<0.001	0.00065 (J)	<0.001			
9/22/2021				<0.001		<0.001
9/23/2021					<0.001	
2/1/2022						<0.001
2/2/2022				<0.001		
2/3/2022	<0.001	0.00072 (J)	<0.001		<0.001	
8/30/2022		0.000786 (J)		<0.001		
8/31/2022	0.000646 (J)		<0.001		<0.001	

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Cobalt (mg/L) Analysis Run 12/12/2024 2:01 PM

Grumman Road Landfill Client: Southern Company Data: Grumman Road Landfill

	GWC-11	GWC-12	GWC-13	GWC-14	GWC-15	GWC-16
9/1/2022						<0.001
2/1/2023	0.00118	0.000753 (J)	<0.001			<0.001
2/2/2023				<0.001	<0.001	
8/29/2023			<0.001			
9/6/2023	0.000794 (J)	0.000732 (J)		<0.001		<0.001
9/7/2023					<0.001	
1/24/2024	0.000522 (J)				<0.001	
1/25/2024		0.000751 (J)	<0.001	<0.001		<0.001
8/21/2024	<0.001	0.000768 (J)	<0.001	<0.001	<0.001	<0.001

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Cobalt (mg/L) Analysis Run 12/12/2024 2:01 PM

Grumman Road Landfill Client: Southern Company Data: Grumman Road Landfill

	GWC-17	GWC-2	GWC-20	GWC-21	GWC-22	GWC-9
9/29/2000	<0.01					<0.01
11/21/2000	<0.01	<0.001				<0.01
1/20/2001	<0.01	<0.001				<0.01
3/14/2001	<0.01	<0.001				<0.01
7/16/2001	<0.01	<0.001				<0.01
11/1/2001	<0.01	<0.001				<0.01
4/25/2002	<0.01	<0.001				<0.01
8/31/2016		<0.001			0.001 (J)	0.0021 (J)
9/1/2016	0.0046 (J)		<0.001	<0.001		
10/25/2016			<0.001	<0.001		
10/26/2016	0.0046 (J)	0.0011 (J)			0.0009 (J)	
10/27/2016						0.0017 (J)
1/4/2017			<0.001	<0.001	0.0007 (J)	
1/5/2017	0.0062 (J)	<0.001				
1/6/2017						0.0017 (J)
4/4/2017		<0.001	<0.001	<0.001		
4/5/2017	0.007 (J)					
4/6/2017					<0.001	0.0017 (J)
7/11/2017			<0.001		<0.001	
7/12/2017						0.0016 (J)
7/13/2017	0.0077 (J)	0.0003 (J)		<0.001		
10/2/2017			<0.001			
10/3/2017		0.0003 (J)		<0.001		
10/4/2017	0.0073 (J)				0.0007 (J)	0.0015 (J)
1/9/2018				<0.001		
1/10/2018		<0.001	<0.001			
1/11/2018	0.0061 (J)				<0.001	0.0017 (J)
7/9/2018			<0.001			
7/10/2018		<0.001		<0.001		
7/11/2018	0.0064 (J)				<0.001	0.0017 (J)
7/30/2019		0.00032 (J)				
8/27/2019		<0.001			0.00077 (J)	
8/28/2019	0.0023 (J)		<0.001	<0.001		0.00099 (J)
10/8/2019				<0.001		
10/9/2019	0.0024 (J)	<0.001	<0.001		<0.001	0.00099 (J)
4/7/2020				<0.001	0.00037 (J)	
4/8/2020	0.0024 (J)	0.00036 (J)	<0.001			0.001 (J)
8/18/2020	0.0025 (J)	<0.001	<0.001	<0.001	<0.001	
8/19/2020						0.0011 (J)
9/29/2020		<0.001				
9/30/2020	0.0018 (J)		<0.001	<0.001	<0.001	
10/1/2020						0.00099 (J)
3/10/2021					<0.001	0.00096 (J)
3/11/2021	0.0019 (J)					
3/12/2021			<0.001			
3/15/2021		<0.001				
3/16/2021				<0.001		
9/21/2021					<0.001	
9/22/2021	0.0028 (J)	<0.001	<0.001	<0.001		0.00082 (J)
2/1/2022	0.0036 (J)		<0.001	<0.001		
2/2/2022		<0.001				0.00096 (J)
2/3/2022					<0.001	

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Cobalt (mg/L) Analysis Run 12/12/2024 2:01 PM

Grumman Road Landfill Client: Southern Company Data: Grumman Road Landfill

	GWC-17	GWC-2	GWC-20	GWC-21	GWC-22	GWC-9
8/30/2022			<0.001	<0.001		
8/31/2022	0.00358				<0.001	
9/1/2022		<0.001				0.00093 (J)
2/1/2023	0.00265		<0.001			0.00083 (J)
2/2/2023		<0.001		<0.001	<0.001	
8/29/2023	0.00268	<0.001			0.000817 (J)	0.000744 (J)
9/6/2023			<0.001	<0.001		
1/23/2024					<0.001	
1/24/2024	0.00264		<0.001			0.000899 (J)
1/25/2024		<0.001		<0.001		
8/21/2024	0.00256	<0.001	<0.001		<0.001	0.00096 (J)
8/22/2024				<0.001		

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Cobalt (mg/L) Analysis Run 12/12/2024 2:01 PM

Grumman Road Landfill Client: Southern Company Data: Grumman Road Landfill

	MW-23D	MW-24D	MW-25D	MW-26D
3/11/2021	<0.001	<0.001	<0.001	<0.001
9/21/2021				<0.001
9/22/2021	<0.001	<0.001		
9/23/2021			<0.001	
2/1/2022		<0.001		
2/2/2022				<0.001
2/3/2022	<0.001		<0.001	
8/31/2022	<0.001		<0.001	
9/1/2022		<0.001		
2/1/2023	<0.001			
2/2/2023		<0.001	<0.001	
9/6/2023	<0.001	<0.001		
9/7/2023			<0.001	
1/24/2024	<0.001			
1/25/2024		<0.001	<0.001	<0.001
8/20/2024				<0.001
8/21/2024	<0.001	<0.001	<0.001	

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Combined Radium 226 + 228 (pCi/L) Analysis Run 12/12/2024 2:01 PM

Grumman Road Landfill Client: Southern Company Data: Grumman Road Landfill

	GWA-7 (bg)	GWA-8 (bg)	GWB-4R	GWB-5R	GWB-6R	GWC-1
8/30/2016		2.72		1.81	2.19	2.36
9/1/2016	11		5.27			
10/24/2016		2.96				
10/25/2016	10.5					2.02
10/26/2016			2.32	2.03	2.67	
1/3/2017		2.76		1.85		
1/4/2017						2.1
1/5/2017					3.74	
1/6/2017	6.81		5.1			
4/3/2017		1.36				
4/4/2017			5			1.39 (U)
4/6/2017	8.93			2.66	2.36	
7/11/2017		1.85				
7/12/2017			2.69	2.1	1.54	1.63
7/13/2017	8.51					
10/2/2017		1.9				
10/3/2017				2	3.63	1.84
10/4/2017	3.85		4.82			
1/9/2018	4.28	2.39			2.07	
1/10/2018				2.55		2.11
1/11/2018			4.48			
7/9/2018		1.49				
7/10/2018				3.14	1.63	1.29
7/11/2018	5.99		2.69			
8/26/2019	6.03	3.03				
8/27/2019			2.97		4.63	2.41
8/28/2019				3.74		
10/7/2019		2.83				
10/8/2019	33.8 (o)					
10/9/2019			2.17	7.23	5.45	3.13
4/6/2020	25.7 (o)	2.83				
4/7/2020			2.44	3.57	6.25	1.97
8/17/2020		2.63				
8/19/2020	5.45		3.1	2.49	4.53	1.91
9/28/2020	22.4 (o)	2.08				1.29
9/30/2020				4.45	6.39	
10/1/2020			2.6			
3/10/2021			2.11	4.67	4.61	1.7
3/11/2021	3.22					
3/12/2021		2.17				
9/21/2021	10.3	0.73 (U)	2.45	3.1	5.07	
9/23/2021						1.48
1/31/2022	8.46 (U)	1.01				
2/2/2022			3.17		4.79	
2/3/2022				2.65		1
8/30/2022	2.75	1.97	5.57	3.36	3.2	
9/1/2022						0.911 (U)
1/31/2023	3.86	1.96 (U)				
2/1/2023				3.28	4.93	
2/2/2023			5.79			3.54
8/28/2023	1.69	1.84				
8/29/2023			3.86	1.63	8.19	2.65

Time Series

Constituent: Combined Radium 226 + 228 (pCi/L) Analysis Run 12/12/2024 2:01 PM

Grumman Road Landfill Client: Southern Company Data: Grumman Road Landfill

	GWA-7 (bg)	GWA-8 (bg)	GWB-4R	GWB-5R	GWB-6R	GWC-1
1/23/2024	4.64	3.11			8.24	2.9
2/7/2024			5.48			
2/8/2024				6.35		
8/19/2024	3.16					
8/20/2024			7.26		6.12	0.492 (U)
8/21/2024		4.29		2.85		

Time Series

Constituent: Combined Radium 226 + 228 (pCi/L) Analysis Run 12/12/2024 2:01 PM

Grumman Road Landfill Client: Southern Company Data: Grumman Road Landfill

	GWC-11	GWC-12	GWC-13	GWC-14	GWC-15	GWC-16
8/31/2016	2.2	2.61	1.23			
9/1/2016				1.28	2.45	1.99
10/25/2016				1.54	1.04 (U)	1.98
10/26/2016	1.96	3.28	0.641 (U)			
1/4/2017	1.88	3.77				1.72
1/5/2017			0.657 (U)	0.715 (U)	1.36	
4/3/2017					0.697 (U)	
4/4/2017				0.699 (U)		
4/5/2017		3.25				1.72
4/6/2017			0.439 (U)			
4/8/2017	0.893 (U)					
7/10/2017		1.55				
7/11/2017	1.89			1.12	0.754 (U)	
7/12/2017			0.414 (U)			1.11
10/2/2017				0.855 (U)	1.52	
10/3/2017	4.73					2.13
10/4/2017		1.68	1.33			
1/9/2018				0.861 (U)	1.17	
1/10/2018			1.21			1.74
1/11/2018	7.49	2.94				
7/9/2018				0.693 (U)		
7/10/2018					1.26	1.97
7/11/2018	5.88	2.03	1.4 (U)			
8/27/2019	5.09	2.09	1.27	1.32	1.75	
8/28/2019						2.04
10/8/2019	6.39		1.62	1.41	1.52	1.89
10/9/2019		3.11				
4/7/2020	7.87	2.18		1.41	1.82	4.17
4/8/2020			1.08 (U)			
8/17/2020		2.25	1.42			
8/18/2020	6.76			0.731 (U)	1.84	4.24
9/28/2020			1.28			
9/29/2020	8.3	0.845 (U)		0.331 (U)		
9/30/2020					2.14	2.47
3/10/2021	7.55	1.77				
3/12/2021					0.607 (U)	
3/15/2021			0.769 (U)			
3/16/2021				0.0831 (U)		2.15
9/21/2021	4.35	1.24 (U)	2.09			
9/22/2021				1.94 (U)		3.06
9/23/2021					1.64	
2/1/2022						2.73
2/2/2022				0.881 (U)		
2/3/2022	4.04	0.957	1.18		0.58 (U)	
8/30/2022		3.37		2.62		
8/31/2022	6.34		1.9		2.88	
9/1/2022						1.64 (U)
2/1/2023	5.87	2.07	2.85			3.17
2/2/2023				1.31 (U)	3.14	
8/29/2023			2.36			
9/6/2023	9.23	2.02		0.609		3.42
9/7/2023					2.28	

Time Series

Constituent: Combined Radium 226 + 228 (pCi/L) Analysis Run 12/12/2024 2:01 PM

Grumman Road Landfill Client: Southern Company Data: Grumman Road Landfill

	GWC-11	GWC-12	GWC-13	GWC-14	GWC-15	GWC-16
1/24/2024	7.06				0.775 (U)	
1/25/2024		0.675 (U)	2.37	0.586 (U)		4
8/21/2024	5.48	2.54	1.23 (U)	0.715 (U)	2.48	3.92

Time Series

Constituent: Combined Radium 226 + 228 (pCi/L) Analysis Run 12/12/2024 2:01 PM

Grumman Road Landfill Client: Southern Company Data: Grumman Road Landfill

	GWC-17	GWC-2	GWC-20	GWC-21	GWC-22	GWC-9
8/31/2016		1.01			5.96	3.3
9/1/2016	5.19		2.21	1.05		
10/25/2016			1.51 (U)	1.2		
10/26/2016	4.25	0.725 (U)			7.42	
10/27/2016						2.7
1/4/2017			2.56	2.11	6.07	
1/5/2017	3.55	0.735 (U)				
1/6/2017						4.45
4/4/2017		0.87 (U)	1.77	2.02		
4/5/2017	4.39					
4/6/2017					3	3.1
7/11/2017			2.76		4.2	
7/12/2017						2.73
7/13/2017	2.44	0.42 (U)		0.576 (U)		
10/2/2017			4.15			
10/3/2017		0.995 (U)		0.86		
10/4/2017	4.95				7.16	8.16
1/9/2018				1.43		
1/10/2018		0.698 (U)	1.96			
1/11/2018	3.53				3.57	2.31
7/9/2018			1.11			
7/10/2018		1.01		1.63		
7/11/2018	3.13				7.57	3.31
8/27/2019		0.787 (U)			7.04	
8/28/2019	2.01		1.13 (U)	1.4 (U)		1.91
10/8/2019				1.88		
10/9/2019	2.91	0.22 (U)	2.28		3.68	3.09
4/7/2020				1.8	7.66	
4/8/2020	2.79	1.13 (U)	4.19			1.92
8/18/2020	3.11	1.09 (U)	6.86	3.27	7.65	
8/19/2020						2.34
9/29/2020		1 (U)				
9/30/2020	3.09		5.62	3.83	2.79	
10/1/2020						3.3
3/10/2021					2.53	2.08
3/11/2021	2.77					
3/12/2021			5.17			
3/15/2021		0.804 (U)				
3/16/2021				2.88		
9/21/2021					1.25 (U)	
9/22/2021	2.36	0.769 (U)	6.84	0.959 (U)		2.08
2/1/2022	2.51		5.11	2.51		
2/2/2022		0.854 (U)				0.967 (U)
2/3/2022					1.4	
8/30/2022			4.95	2.56		
8/31/2022	2.72				3.07	
9/1/2022		2.09				2.35
2/1/2023	2.83		5.77			4.17
2/2/2023		1.11 (U)		3.73	4.13	
8/29/2023	2.77	2.49			11.3	1.44
9/6/2023			2.12	4.2		
1/23/2024					6.54	

Time Series

Constituent: Combined Radium 226 + 228 (pCi/L) Analysis Run 12/12/2024 2:01 PM

Grumman Road Landfill Client: Southern Company Data: Grumman Road Landfill

	GWC-17	GWC-2	GWC-20	GWC-21	GWC-22	GWC-9
1/24/2024	0.437 (U)		1.78			1.36 (U)
1/25/2024		1.99		4.12		
8/21/2024	2.46	2.07	4.17		2.35	2.54
8/22/2024				4.52		

Time Series

Constituent: Combined Radium 226 + 228 (pCi/L) Analysis Run 12/12/2024 2:01 PM

Grumman Road Landfill Client: Southern Company Data: Grumman Road Landfill

	MW-23D	MW-24D	MW-25D	MW-26D
3/11/2021	1.55	1.29	0.353 (U)	0.783 (U)
9/21/2021				0.815 (U)
9/22/2021	1.4	0.982 (U)		
9/23/2021			1.15	
2/1/2022		0.36 (U)		
2/2/2022				0.249 (U)
2/3/2022	1.21		0.278 (U)	
8/31/2022	1.79		0.645 (U)	
9/1/2022		3.54		
2/1/2023	2.44			
2/2/2023		2.52 (U)	2.98	
9/6/2023	3.47	1.73		
9/7/2023			1.75	
1/24/2024	1.3 (U)			
1/25/2024		1.68	1.04 (U)	1.64 (U)
8/20/2024				1.84
8/21/2024	0.517 (U)	3.94	1.22 (U)	

Time Series

Constituent: Fluoride (mg/L) Analysis Run 12/12/2024 2:01 PM

Grumman Road Landfill Client: Southern Company Data: Grumman Road Landfill

	GWA-7 (bg)	GWA-8 (bg)	GWB-4R	GWB-5R	GWB-6R	GWC-1
8/30/2016		0.1 (J)		0.04 (J)	0.09 (J)	0.22 (J)
9/1/2016	<0.1		<0.1			
10/24/2016		0.18 (J)				
10/25/2016	0.07 (J)					<0.1
10/26/2016			0.05 (J)	0.05 (J)	0.24 (J)	
1/3/2017		0.18 (J)		0.08 (J)		
1/4/2017						0.18 (J)
1/5/2017					0.11 (J)	
1/6/2017	0.2 (J)		0.08 (J)			
4/3/2017		0.12 (J)				
4/4/2017			<0.1			<0.1
4/6/2017	0.05 (J)			0.006 (J)	0.3	
7/11/2017		0.39				
7/12/2017			0.38	0.05 (J)	0.15 (J)	0.04 (J)
7/13/2017	0.41					
10/2/2017		0.12 (J)				
10/3/2017				0.11 (J)	0.11 (J)	<0.1
10/4/2017	0.04 (J)		<0.1			
1/9/2018	0.46	0.21 (J)			<0.1	
1/10/2018				<0.1		<0.1
1/11/2018			<0.1			
7/9/2018		0.04 (J)				
7/10/2018				0.2 (J)	<0.1	<0.1
7/11/2018	<0.1		<0.1			
1/16/2019	0.49	<0.1	1.2	<0.1	0.053 (J)	<0.1
3/25/2019	0.21 (J)	0.082 (J)	0.064 (J)			
3/26/2019				<0.1	0.046 (J)	0.051 (J)
8/26/2019	<0.1	0.13				
8/27/2019			0.031 (J)		0.13 (J)	<0.1
8/28/2019				0.097 (J)		
10/7/2019		<0.1				
10/8/2019	<0.1					
10/9/2019			<0.1	<0.1	<0.1	<0.1
4/6/2020	0.13 (J)	0.089 (J)				
4/7/2020			<0.1	<0.1	<0.1	<0.1
8/17/2020		0.079 (J)				
8/19/2020	0.21		0.17	<0.1	<0.1	<0.1
9/28/2020	0.069 (J)	<0.1				<0.1
9/30/2020				<0.1	<0.1	
10/1/2020			<0.1			
3/10/2021			<0.1	<0.1	<0.1	<0.1
3/11/2021	<0.1					
3/12/2021		0.087 (J)				
9/21/2021	0.077 (J)	0.068 (J)	<0.1	<0.1	<0.1	
9/23/2021						<0.1
1/31/2022	<0.1	0.09 (J)				
2/2/2022			<0.1		<0.1	
2/3/2022				0.081 (J)		<0.1
8/30/2022	0.0391 (J)	0.0759 (J)	<0.1	0.0428 (J)	<0.1	
9/1/2022						<0.1
1/31/2023	0.051 (J)	0.0842 (J)				
2/1/2023				0.0546 (J)	<0.1	

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Fluoride (mg/L) Analysis Run 12/12/2024 2:01 PM

Grumman Road Landfill Client: Southern Company Data: Grumman Road Landfill

	GWA-7 (bg)	GWA-8 (bg)	GWB-4R	GWB-5R	GWB-6R	GWC-1
2/2/2023			<0.1			<0.1
8/28/2023	<0.1	0.0498 (J)				
8/29/2023			<0.1	<0.1	0.0523 (J)	0.0596 (J)
1/23/2024	0.0367 (J)	0.0641 (J)			<0.1	<0.1
1/24/2024				<0.1		
1/25/2024			<0.1			
8/19/2024	0.061 (J)					
8/20/2024			<0.1		0.0768 (J)	<0.1
8/21/2024		0.108		0.0435 (J)		

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Fluoride (mg/L) Analysis Run 12/12/2024 2:01 PM

Grumman Road Landfill Client: Southern Company Data: Grumman Road Landfill

	GWC-11	GWC-12	GWC-13	GWC-14	GWC-15	GWC-16
8/31/2016	<0.1	0.7	<0.1			
9/1/2016				0.25 (J)	<0.1	0.55
10/25/2016				0.43	0.5	0.36
10/26/2016	<0.1	0.91	0.55			
1/4/2017	<0.1	0.51				0.1 (J)
1/5/2017			0.09 (J)	0.21 (J)	0.22 (J)	
4/3/2017					<0.1	
4/4/2017				0.45		
4/5/2017		0.71				0.2 (J)
4/6/2017	<0.1		<0.1			
7/10/2017		0.88				
7/11/2017	<0.1			0.41	0.06 (J)	
7/12/2017			<0.1			0.04 (J)
10/2/2017				<0.1	<0.1	
10/3/2017	<0.1					0.86
10/4/2017		0.37	<0.1			
1/9/2018				<0.1	<0.1	
1/10/2018			<0.1			<0.1
1/11/2018	<0.1	1.4				
7/9/2018				<0.1		
7/10/2018					0.15 (J)	<0.1
7/11/2018	<0.1	0.62	<0.1			
1/16/2019			<0.1	<0.1		
1/17/2019	<0.1	1.2			<0.1	<0.1
3/26/2019			0.052 (J)	0.13 (J)	0.13 (J)	0.11 (J)
3/27/2019	<0.1	0.036 (J)				
8/27/2019	<0.1	0.3	<0.1	<0.1	<0.1	
8/28/2019						<0.1
10/8/2019	<0.1		<0.1	<0.1	<0.1	<0.1
10/9/2019		<0.3				
4/7/2020	<0.1	0.27 (J)		<0.1	<0.1	<0.1
4/8/2020			<0.1			
8/17/2020		0.19	<0.1			
8/18/2020	<0.1			<0.1	<0.1	<0.1
9/28/2020			<0.1			
9/29/2020	<0.1	0.16		<0.1		
9/30/2020					<0.1	<0.1
3/10/2021	<0.1	0.14				
3/12/2021					<0.1	
3/15/2021			<0.1			
3/16/2021				<0.1		<0.1
9/21/2021	<0.1	0.31	<0.1			
9/22/2021				<0.1		<0.1
9/23/2021					<0.1	
2/1/2022						<0.1
2/2/2022				<0.1		
2/3/2022	<0.1	0.36	<0.1		<0.1	
8/30/2022		0.273		<0.1		
8/31/2022	<0.1		0.051 (J)		<0.1	
9/1/2022						0.0374 (J)
2/1/2023	<0.1	0.231	0.0423 (J)			0.0702 (J)
2/2/2023				<0.1	<0.1	

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Fluoride (mg/L) Analysis Run 12/12/2024 2:01 PM

Grumman Road Landfill Client: Southern Company Data: Grumman Road Landfill

	GWC-11	GWC-12	GWC-13	GWC-14	GWC-15	GWC-16
8/29/2023			<0.1			
9/6/2023	<0.1	0.238		<0.1		<0.1
9/7/2023					<0.1	
1/24/2024	<0.1				<0.1	
1/25/2024		0.182	<0.1	<0.1		<0.1
8/21/2024	<0.1	0.194	0.0496 (J)	<0.1	<0.1	<0.1

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Fluoride (mg/L) Analysis Run 12/12/2024 2:01 PM

Grumman Road Landfill Client: Southern Company Data: Grumman Road Landfill

	GWC-17	GWC-2	GWC-20	GWC-21	GWC-22	GWC-9
8/31/2016		0.07 (J)			0.04 (J)	0.55
9/1/2016	0.68		<0.1	<0.1		
10/25/2016			<0.1	<0.1		
10/26/2016	0.68	0.62			0.12 (J)	
10/27/2016						0.26 (J)
1/4/2017			0.04 (J)	<0.1	0.06 (J)	
1/5/2017	0.73	0.17 (J)				
1/6/2017						0.25 (J)
4/4/2017		0.08 (J)	0.02 (J)	<0.1		
4/5/2017	1.6					
4/6/2017					<0.1	0.16 (J)
7/11/2017			0.14 (J)		0.03 (J)	
7/12/2017						0.2 (J)
7/13/2017	1.7	0.06 (J)		<0.1		
10/2/2017			<0.1			
10/3/2017		0.06 (J)		<0.1		
10/4/2017	1.8				0.12 (J)	0.22 (J)
1/9/2018				<0.1		
1/10/2018		<0.1	<0.1			
1/11/2018	1.5				<0.1	0.98
7/9/2018			<0.1			
7/10/2018		<0.1		<0.1		
7/11/2018	1.8				<0.1	0.14 (J)
1/16/2019	1.4					
1/17/2019				<0.1		
1/18/2019					<0.1	0.24 (J)
1/21/2019		<0.1	<0.1			
3/25/2019			0.043 (J)			
3/26/2019	0.89			0.071 (J)		
3/27/2019					<0.1	0.13 (J)
7/30/2019		0.083 (J)				
8/27/2019		<0.1			0.1	
8/28/2019	0.61		<0.1	<0.1		0.088 (J)
10/8/2019				<0.1		
10/9/2019	<0.3	<0.1	<0.1		<0.1	0.068 (J)
4/7/2020				<0.1	<0.1	
4/8/2020	0.55	<0.1	<0.1			0.058 (J)
8/18/2020	0.51	<0.1	<0.1	<0.1	<0.1	
8/19/2020						0.092 (J)
9/29/2020		<0.1				
9/30/2020	0.15		<0.1	<0.1	<0.1	
10/1/2020						<0.1
3/10/2021					<0.1	0.066 (J)
3/11/2021	0.42					
3/12/2021			<0.1			
3/15/2021		<0.1				
3/16/2021				<0.1		
9/21/2021					<0.1	
9/22/2021	0.79	<0.1	<0.1	<0.1		0.13
2/1/2022	0.68		<0.1	<0.1		
2/2/2022		<0.1				<0.1
2/3/2022					<0.1	

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Fluoride (mg/L) Analysis Run 12/12/2024 2:01 PM

Grumman Road Landfill Client: Southern Company Data: Grumman Road Landfill

	GWC-17	GWC-2	GWC-20	GWC-21	GWC-22	GWC-9
8/30/2022			<0.1	<0.1		
8/31/2022	0.442				<0.1	
9/1/2022		<0.1				0.0783 (J)
2/1/2023	0.604		<0.1			0.0994 (J)
2/2/2023		<0.1		<0.1	<0.1	
8/29/2023	0.572	<0.1			0.0758 (J)	0.115
9/6/2023			<0.1	<0.1		
1/23/2024					<0.1	
1/24/2024	0.416		<0.1			0.0618 (J)
1/25/2024		0.0377 (J)		<0.1		
8/21/2024	0.642	0.0532 (J)	0.168		<0.1	0.134
8/22/2024				<0.1		

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Fluoride (mg/L) Analysis Run 12/12/2024 2:01 PM

Grumman Road Landfill Client: Southern Company Data: Grumman Road Landfill

	MW-23D	MW-24D	MW-25D	MW-26D
1/20/2021			0.11	<0.1
1/21/2021	<0.1	<0.1		
3/11/2021	<0.1	<0.1	0.12	<0.1
9/21/2021				<0.1
9/22/2021	<0.1	<0.1		
9/23/2021			0.096 (J)	
2/1/2022		<0.1		
2/2/2022				<0.1
2/3/2022	<0.1		0.077 (J)	
8/31/2022	0.0791 (J)		0.187	
9/1/2022		<0.1		
2/1/2023	0.0586 (J)			
2/2/2023		<0.1	0.152	
9/6/2023	0.13	0.147		
9/7/2023			0.198	
1/24/2024	0.0432 (J)			
1/25/2024		<0.1	0.168	<0.1
8/20/2024				0.0444 (J)
8/21/2024	0.0361 (J)	0.037 (J)	0.216	

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Lead (mg/L) Analysis Run 12/12/2024 2:01 PM

Grumman Road Landfill Client: Southern Company Data: Grumman Road Landfill

	GWA-7 (bg)	GWA-8 (bg)	GWB-4R	GWB-5R	GWB-6R	GWC-1
9/29/2000	<0.005	<0.002	0.0083	0.017 (O)	<0.002	<0.002
11/21/2000	<0.005		0.0052	<0.002	<0.002	<0.002
1/20/2001	<0.005	<0.002	<0.002	0.011	<0.002	<0.002
3/14/2001	<0.005	<0.002	<0.002	0.026 (O)	<0.002	<0.002
7/16/2001	<0.005	<0.002	0.011	0.043 (O)	<0.002	<0.002
11/1/2001	<0.005	<0.002	<0.002	0.075 (O)	<0.002	<0.002
4/25/2002	<0.005	<0.002	<0.002	<0.002	<0.002	<0.002
11/20/2002		<0.002	0.018 (O)	0.057 (O)	0.0057 (J)	<0.002
6/6/2003	0.037 (O)	0.016 (O)	0.015 (O)	0.16 (O)	0.013	<0.002
12/12/2003	0.008	0.0095	0.0072	<0.002	<0.002	<0.002
5/26/2004	<0.005	<0.002	0.0055	0.011	<0.002	<0.002
12/7/2004	<0.005	<0.002	<0.002	0.038 (O)	<0.002	<0.002
6/21/2005	<0.005	<0.002	<0.002	0.036 (O)	<0.002	<0.002
12/12/2005	<0.005	<0.002	<0.002	<0.002	<0.002	<0.002
4/4/2006		<0.002				
6/27/2006	<0.005	<0.002	0.024 (O)	<0.002	<0.002	<0.002
8/30/2006		<0.002				
12/4/2006	<0.005	<0.002	0.023 (O)	<0.002	<0.002	<0.002
2/15/2007		<0.002				
6/23/2007	<0.005	<0.002	<0.002	<0.002	<0.002	<0.002
9/11/2007		<0.002				
12/11/2007	<0.005	<0.002	<0.002	<0.002	<0.002	<0.002
3/11/2008		<0.002				
6/23/2008	<0.005	<0.002				
6/24/2008			0.02 (O)	<0.002	0.02	<0.002
11/3/2008		<0.002				
12/4/2008	<0.005	<0.002				
12/5/2008			<0.002	<0.002	<0.002	<0.002
3/25/2009		<0.002				
7/7/2009	<0.005	<0.002	<0.002	<0.002	<0.002	<0.002
9/14/2009		<0.002				
12/20/2009	<0.005	<0.002				<0.002
12/21/2009			<0.002	<0.002	<0.002	
3/4/2010		<0.002				
6/20/2010	<0.005	<0.002		<0.002	<0.002	<0.002
6/21/2010			<0.002			
9/14/2010		<0.002				
1/6/2011				<0.002		<0.002
1/7/2011	<0.005	<0.002	<0.002		<0.002	
4/15/2011		<0.002				
7/7/2011	<0.005	<0.002		<0.002	<0.002	<0.002
7/8/2011			<0.002			
9/25/2011		<0.002				
1/17/2012	<0.005	<0.002		<0.002		<0.002
1/18/2012			<0.002		<0.002	
4/4/2012		<0.002				
7/9/2012	<0.005			<0.002		<0.002
7/10/2012		<0.002	<0.002		<0.002	
10/9/2012		<0.002				
1/17/2013				<0.002		<0.002
1/18/2013	<0.005	<0.002	<0.002		<0.002	
4/5/2013		<0.002				

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Lead (mg/L) Analysis Run 12/12/2024 2:01 PM

Grumman Road Landfill Client: Southern Company Data: Grumman Road Landfill

	GWA-7 (bg)	GWA-8 (bg)	GWB-4R	GWB-5R	GWB-6R	GWC-1
7/16/2013				<0.002		<0.002
7/17/2013	<0.005	<0.002	<0.002		<0.002	
10/11/2013		<0.002				
1/13/2014	0.013			<0.002		<0.002
1/14/2014		<0.002	0.005		<0.002	
4/3/2014		<0.002				
7/9/2014	0.0076 (J)	<0.002	<0.002	<0.002	<0.002	<0.002
10/24/2014		<0.002				
1/12/2015			<0.002			
1/13/2015	0.0057 (J)			<0.002		<0.002
1/14/2015		<0.002			<0.002	
5/10/2015		<0.002				
7/16/2015	0.009 (J)		<0.002	<0.002		<0.002
7/17/2015		<0.002			<0.002	
10/6/2015		<0.002				
1/17/2016						<0.002
1/18/2016	0.0094 (J)	<0.002	0.0055 (J)	<0.002	<0.002	
4/26/2016		<0.002				
7/27/2016	0.0058			<0.002		<0.002
7/28/2016		<0.002			<0.002	
7/29/2016			0.003 (J)			
8/30/2016		<0.002		<0.002	<0.002	<0.002
9/1/2016	0.0663 (O)		0.0166 (O)			
10/24/2016		<0.002				
10/25/2016	0.0003 (J)					<0.002
10/26/2016			0.0057	0.0002 (J)	<0.002	
1/3/2017		0.0001 (J)		0.0001 (J)		
1/4/2017						<0.002
1/5/2017					0.0003 (J)	
1/6/2017	0.006		0.0053			
4/3/2017		0.0002 (J)				
4/4/2017			0.0092			<0.002
4/6/2017	0.0109			0.0003 (J)	0.0002 (J)	
7/11/2017		0.0001 (J)				
7/12/2017			0.006	0.0002 (J)	0.0002 (J)	<0.002
7/13/2017	0.007					
10/2/2017		0.0001 (J)				
10/3/2017				0.0002 (J)	0.0001 (J)	<0.002
10/4/2017	0.0042 (J)		0.0057			
1/9/2018	0.0098	0.0001 (J)			0.0003 (J)	
1/10/2018				0.0003 (J)		0.0001 (J)
1/11/2018			0.0085			
7/9/2018		<0.002				
7/10/2018				<0.002	<0.002	<0.002
7/11/2018	0.0028 (J)		0.0029 (J)			
1/16/2019	<0.025 (O)	<0.002	<0.002	<0.002	<0.002	<0.002
3/25/2019	0.0019 (J)	<0.002	<0.002			
3/26/2019				<0.002	<0.002	<0.002
8/26/2019	0.013 (J)	<0.002				
8/27/2019			0.001 (J)		0.0011 (J)	<0.002
8/28/2019				0.0011 (J)		
10/7/2019		<0.002				

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Lead (mg/L) Analysis Run 12/12/2024 2:01 PM

Grumman Road Landfill Client: Southern Company Data: Grumman Road Landfill

	GWA-7 (bg)	GWA-8 (bg)	GWB-4R	GWB-5R	GWB-6R	GWC-1
10/8/2019	0.0098 (J)					
10/9/2019			0.00041 (J)	0.0025 (J)	0.00033 (J)	<0.002
4/6/2020	0.0024 (J)	0.0001 (J)				
4/7/2020			0.00073 (J)	0.0014 (J)	0.00063 (J)	0.00012 (J)
8/17/2020		<0.002				
8/19/2020	0.0044 (J)		0.00048 (J)	7.9E-05 (J)	0.00014 (J)	<0.002
9/28/2020	0.0043 (J)	<0.002				4.3E-05 (J)
9/30/2020				0.0012 (J)	8E-05 (J)	
10/1/2020			0.00026 (J)			
3/10/2021			0.0003 (J)	5.2E-05 (J)	9.6E-05 (J)	0.0001 (J)
3/11/2021	0.0079					
3/12/2021		9.3E-05 (J)				
9/21/2021	<0.005	<0.002	<0.002	<0.002	<0.002	
9/23/2021						<0.002
1/31/2022	<0.005	<0.002				
2/2/2022			<0.002		<0.002	
2/3/2022				<0.002		<0.002
8/30/2022	0.0022	<0.002	<0.002	<0.002	<0.002	
9/1/2022						<0.002
1/31/2023	0.00126 (J)	0.0104				
2/1/2023				<0.002	<0.002	
2/2/2023			<0.002			<0.002
8/28/2023	0.0017 (J)	0.000566 (J)				
8/29/2023			<0.002	<0.002	<0.002	<0.002
1/23/2024	0.00133 (J)	<0.002			<0.002	<0.002
2/7/2024			<0.002			
2/8/2024				<0.002		
8/19/2024	0.000838 (J)					
8/20/2024			<0.002		<0.002	<0.002
8/21/2024		<0.002		0.000522 (J)		

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Lead (mg/L) Analysis Run 12/12/2024 2:01 PM

Grumman Road Landfill Client: Southern Company Data: Grumman Road Landfill

	GWC-11	GWC-12	GWC-13	GWC-14	GWC-15	GWC-16
9/29/2000	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002
11/21/2000	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002
1/20/2001	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002
3/14/2001	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002
7/16/2001	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002
11/1/2001	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002
4/25/2002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002
11/20/2002	<0.002	<0.002	<0.002	0.011 (O)	<0.002	<0.002
6/6/2003	0.0068	<0.002	0.0078	<0.002	<0.002	0.099 (O)
12/12/2003	<0.002	<0.002	0.0055	<0.002	0.0065	0.017 (O)
5/26/2004	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002
12/7/2004	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002
6/21/2005	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002
12/12/2005	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002
4/4/2006				<0.002		<0.002
6/27/2006	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002
8/30/2006				<0.002		<0.002
12/4/2006	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002
2/15/2007				<0.002		<0.002
6/23/2007	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002
9/11/2007				<0.002		<0.002
12/11/2007	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002
3/11/2008				<0.002		<0.002
6/23/2008	<0.002	<0.002	<0.002			
6/24/2008				<0.002	<0.002	<0.002
11/3/2008				<0.002		<0.002
12/4/2008	<0.002	<0.002	<0.002	<0.002		
12/5/2008					<0.002	<0.002
3/25/2009				<0.002		<0.002
7/8/2009	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002
9/14/2009				<0.002		<0.002
12/20/2009				<0.002	<0.002	<0.002
12/21/2009	<0.002	<0.002	<0.002			
3/4/2010				<0.002		<0.002
6/20/2010	<0.002	<0.002	<0.002	<0.002	<0.002	
6/21/2010						<0.002
9/14/2010				<0.002		<0.002
1/6/2011	<0.002		<0.002			
1/7/2011		<0.002		<0.002	<0.002	<0.002
4/15/2011				<0.002		<0.002
7/7/2011	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002
9/25/2011				<0.002		<0.002
1/17/2012	<0.002	<0.002	<0.002	<0.002	<0.002	
1/18/2012						<0.002
4/4/2012				<0.002		<0.002
7/9/2012	<0.002	<0.002	<0.002	<0.002	<0.002	
7/10/2012						<0.002
10/9/2012				<0.002		<0.002
1/17/2013	<0.002	<0.002	<0.002			
1/18/2013				<0.002	<0.002	<0.002
4/5/2013				<0.002		<0.002
7/16/2013	<0.002	<0.002	<0.002			

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Lead (mg/L) Analysis Run 12/12/2024 2:01 PM

Grumman Road Landfill Client: Southern Company Data: Grumman Road Landfill

	GWC-11	GWC-12	GWC-13	GWC-14	GWC-15	GWC-16
7/17/2013				<0.002	<0.002	<0.002
10/11/2013				<0.002		<0.002
1/13/2014	<0.002	0.004	<0.002		<0.002	
1/14/2014				<0.002		<0.002
4/3/2014				<0.002		<0.002
7/8/2014	<0.002	<0.002	<0.002			
7/9/2014				<0.002	<0.002	<0.002
10/24/2014				<0.002		<0.002
1/13/2015	<0.002	<0.002	<0.002		<0.002	
1/14/2015				<0.002		<0.002
5/10/2015				<0.002		
5/11/2015						<0.002
7/16/2015	<0.002	0.0044 (J)	<0.002		<0.002	<0.002
7/17/2015				<0.002		
1/17/2016				<0.002	<0.002	<0.002
1/18/2016		0.0034 (J)	<0.002			
1/19/2016	<0.002					
4/26/2016				<0.002		<0.002
7/26/2016	0.0001 (J)		<0.002			
7/27/2016		0.0001 (J)		<0.002	<0.002	
7/28/2016						<0.002
8/31/2016	0.0002 (J)	0.0001 (J)	<0.002			
9/1/2016				<0.002	<0.002	<0.002
10/25/2016				<0.002	<0.002	0.0002 (J)
10/26/2016	0.0001 (J)	0.0001 (J)	<0.002			
1/4/2017	0.0002 (J)	<0.002				0.0001 (J)
1/5/2017			0.0002 (J)	<0.002	<0.002	
4/3/2017					0.0003 (J)	
4/4/2017				0.0001 (J)		
4/5/2017		0.0003 (J)				0.0002 (J)
4/6/2017	0.0003 (J)		0.0005 (J)			
7/10/2017		0.0003 (J)				
7/11/2017	0.0002 (J)			8E-05 (J)	0.0001 (J)	
7/12/2017			0.0005 (J)			0.0001 (J)
10/2/2017				0.0001 (J)	0.0002 (J)	
10/3/2017	0.0003 (J)					0.0001 (J)
10/4/2017		0.0001 (J)	0.0007 (J)			
1/9/2018				<0.002	0.0002 (J)	
1/10/2018			0.0009 (J)			0.0002 (J)
1/11/2018	0.0003 (J)	0.0002 (J)				
7/9/2018				<0.002		
7/10/2018					<0.002	<0.002
7/11/2018	<0.002	<0.002	0.0015 (J)			
1/16/2019			0.00061 (J)	<0.002		
1/17/2019	0.00028 (J)	<0.002			<0.002	<0.002
3/26/2019			<0.002	<0.002	<0.002	<0.002
3/27/2019	0.00029 (J)	<0.002				
8/27/2019	0.00021 (J)	<0.002	0.0001 (J)	0.00051 (J)	0.00033 (J)	
8/28/2019						0.0001 (J)
10/8/2019	0.00028 (J)		0.00013 (J)	<0.002	0.00012 (J)	0.0001 (J)
10/9/2019		6.6E-05 (J)				
4/7/2020	0.00036 (J)	8.1E-05 (J)		<0.002	8.6E-05 (J)	0.00023 (J)

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Lead (mg/L) Analysis Run 12/12/2024 2:01 PM

Grumman Road Landfill Client: Southern Company Data: Grumman Road Landfill

	GWC-11	GWC-12	GWC-13	GWC-14	GWC-15	GWC-16
4/8/2020			0.00017 (J)			
8/17/2020		4.9E-05 (J)	7.6E-05 (J)			
8/18/2020	0.00035 (J)			<0.002	9E-05 (J)	0.00017 (J)
9/28/2020			6.4E-05 (J)			
9/29/2020	0.00032 (J)	3.7E-05 (J)		<0.002		
9/30/2020					4.7E-05 (J)	9.1E-05 (J)
3/10/2021	0.00042 (J)	6.8E-05 (J)				
3/12/2021					5.3E-05 (J)	
3/15/2021			0.00013 (J)			
3/16/2021				<0.002		7.3E-05 (J)
9/21/2021	<0.002	<0.002	<0.002			
9/22/2021				<0.002		<0.002
9/23/2021					<0.002	
2/1/2022						<0.002
2/2/2022				<0.002		
2/3/2022	<0.002	<0.002	<0.002		<0.002	
8/30/2022		<0.002		<0.002		
8/31/2022	<0.002		<0.002		<0.002	
9/1/2022						<0.002
2/1/2023	<0.002	<0.002	<0.002			<0.002
2/2/2023				<0.002	<0.002	
8/29/2023			<0.002			
9/6/2023	<0.002	<0.002		<0.002		<0.002
9/7/2023					<0.002	
1/24/2024	<0.002				<0.002	
1/25/2024		<0.002	<0.002	<0.002		<0.002
8/21/2024	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Lead (mg/L) Analysis Run 12/12/2024 2:01 PM

Grumman Road Landfill Client: Southern Company Data: Grumman Road Landfill

	GWC-17	GWC-2	GWC-20	GWC-21	GWC-22	GWC-9
9/29/2000	<0.002					<0.002
11/21/2000	<0.002	0.0069				<0.002
1/20/2001	<0.002	<0.002				<0.002
3/14/2001	<0.002	<0.002				<0.002
7/16/2001	<0.002	<0.002				<0.002
11/1/2001	<0.002	<0.002				<0.002
4/25/2002	<0.002	<0.002				<0.002
11/20/2002	<0.002	<0.002				0.0086 (O)
6/6/2003	<0.002	<0.002				<0.002
12/12/2003	<0.002	<0.002				<0.002
5/26/2004	<0.002	<0.002				<0.002
12/7/2004	<0.002	<0.002				0.0051
6/21/2005	<0.002	<0.002				<0.002
12/12/2005	<0.002	<0.002				<0.002
6/27/2006	<0.002	<0.002				<0.002
12/4/2006	<0.002	<0.002				<0.002
6/23/2007	<0.002	<0.002				<0.002
12/11/2007	<0.002	<0.002				<0.002
6/23/2008						<0.002
6/24/2008	<0.002	<0.002				
12/4/2008		<0.002				<0.002
12/5/2008	<0.002					
7/8/2009	<0.002	<0.002				<0.002
12/20/2009		<0.002				
12/21/2009	<0.002					<0.002
6/20/2010		<0.002				<0.002
6/21/2010	<0.002		<0.002	<0.002	<0.002	
1/6/2011		<0.002				
1/7/2011	<0.002		<0.002	<0.002	<0.002	<0.002
7/7/2011			<0.002			
7/8/2011	<0.002		<0.002	<0.002	<0.002	<0.002
1/17/2012		<0.002				
1/18/2012	<0.002		<0.002	<0.002	<0.002	<0.002
7/9/2012		<0.002				
7/10/2012	<0.002		<0.002	<0.002	<0.002	<0.002
1/17/2013		<0.002				
1/18/2013	<0.002		<0.002	<0.002	<0.002	<0.002
7/17/2013	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002
1/13/2014		<0.002				
1/14/2014	<0.002		<0.002	<0.002	<0.002	<0.002
7/9/2014	<0.002	<0.002		<0.002		<0.002
7/10/2014			<0.002		<0.002	
1/12/2015			<0.002			
1/13/2015		<0.002				
1/14/2015	<0.002			<0.002	<0.002	<0.002
7/16/2015		<0.002				
7/17/2015				<0.002		<0.002
7/18/2015	<0.002		<0.002		<0.002	
1/17/2016		<0.002	<0.002	<0.002		
1/18/2016	<0.002				<0.002	<0.002
7/27/2016		<0.002				
7/28/2016			<0.002	<0.002		<0.002

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Lead (mg/L) Analysis Run 12/12/2024 2:01 PM

Grumman Road Landfill Client: Southern Company Data: Grumman Road Landfill

	GWC-17	GWC-2	GWC-20	GWC-21	GWC-22	GWC-9
7/29/2016	<0.002				0.0004 (J)	
8/31/2016		<0.002			0.0003 (J)	0.0007 (J)
9/1/2016	<0.002		<0.002	<0.002		
10/25/2016			0.0001 (J)	<0.002		
10/26/2016	<0.002	<0.002			0.0003 (J)	
10/27/2016						<0.002
1/4/2017			<0.002	<0.002	0.0003 (J)	
1/5/2017	<0.002	<0.002				
1/6/2017						<0.002
4/4/2017		0.0002 (J)	7E-05 (J)	9E-05 (J)		
4/5/2017	0.0009 (J)					
4/6/2017					0.0003 (J)	0.0001 (J)
7/11/2017			<0.002		0.0002 (J)	
7/12/2017						<0.002
7/13/2017	<0.002	0.0003 (J)		7E-05 (J)		
10/2/2017			<0.002			
10/3/2017		<0.002		0.0001 (J)		
10/4/2017	0.0001 (J)				0.0008 (J)	9E-05 (J)
1/9/2018				9E-05 (J)		
1/10/2018		8E-05 (J)	0.0002 (J)			
1/11/2018	0.0001 (J)				0.0009 (J)	0.0002 (J)
7/9/2018			<0.002			
7/10/2018		<0.002		<0.002		
7/11/2018	<0.002				0.001 (J)	<0.002
1/16/2019	<0.002					
1/17/2019				<0.002		
1/18/2019					0.0012 (J)	<0.002
1/21/2019		<0.002	<0.002			
3/25/2019			<0.002			
3/26/2019	<0.002			<0.002		
3/27/2019					0.00047 (J)	<0.002
7/30/2019		0.0002 (J)				
8/27/2019		<0.002			0.003 (J)	
8/28/2019	<0.002		6.5E-05 (J)	0.00018 (J)		6.1E-05 (J)
10/8/2019				0.00016 (J)		
10/9/2019	0.00015 (J)	6.4E-05 (J)	0.00018 (J)		0.00032 (J)	<0.002
4/7/2020				<0.002	0.00067 (J)	
4/8/2020	8.4E-05 (J)	<0.002	<0.002			0.00021 (J)
8/18/2020	0.00014 (J)	<0.002	<0.002	0.00027 (J)	0.00072 (J)	
8/19/2020						9.6E-05 (J)
9/29/2020		<0.002				
9/30/2020	6E-05 (J)		<0.002	5.4E-05 (J)	0.00023 (J)	
10/1/2020						3.8E-05 (J)
3/10/2021					0.00016 (J)	0.00012 (J)
3/11/2021	0.00019 (J)					
3/12/2021			<0.002			
3/15/2021		4.1E-05 (J)				
3/16/2021				<0.002		
9/21/2021					<0.002	
9/22/2021	<0.002	<0.002	<0.002	<0.002		<0.002
2/1/2022	<0.002		<0.002	<0.002		
2/2/2022		<0.002				<0.002

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Lead (mg/L) Analysis Run 12/12/2024 2:01 PM

Grumman Road Landfill Client: Southern Company Data: Grumman Road Landfill

	GWC-17	GWC-2	GWC-20	GWC-21	GWC-22	GWC-9
2/3/2022					<0.002	
8/30/2022			<0.002	<0.002		
8/31/2022	<0.002				<0.002	
9/1/2022		<0.002				<0.002
2/1/2023	<0.002		<0.002			<0.002
2/2/2023		<0.002		<0.002	<0.002	
8/29/2023	<0.002	<0.002			0.000511 (J)	<0.002
9/6/2023			<0.002	<0.002		
1/23/2024					<0.002	
1/24/2024	<0.002		<0.002			<0.002
1/25/2024		<0.002		<0.002		
8/21/2024	<0.002	<0.002	<0.002		<0.002	<0.002
8/22/2024				<0.002		

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Lead (mg/L) Analysis Run 12/12/2024 2:01 PM

Grumman Road Landfill Client: Southern Company Data: Grumman Road Landfill

	MW-23D	MW-24D	MW-25D	MW-26D
3/11/2021	5.7E-05 (J)	9.4E-05 (J)	9.5E-05 (J)	0.00015 (J)
9/21/2021				<0.002
9/22/2021	<0.002	<0.002		
9/23/2021			<0.002	
2/1/2022		<0.002		
2/2/2022				<0.002
2/3/2022	<0.002		<0.002	
8/31/2022	<0.002		<0.002	
9/1/2022		<0.002		
2/1/2023	<0.002			
2/2/2023		<0.002	<0.002	
9/6/2023	<0.002	<0.002		
9/7/2023			<0.002	
1/24/2024	<0.002			
1/25/2024		<0.002	<0.002	<0.002
8/20/2024				<0.002
8/21/2024	<0.002	<0.002	<0.002	

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Lithium (mg/L) Analysis Run 12/12/2024 2:01 PM

Grumman Road Landfill Client: Southern Company Data: Grumman Road Landfill

	GWA-7 (bg)	GWA-8 (bg)	GWB-4R	GWB-5R	GWB-6R	GWC-1
8/30/2016		<0.03		0.0042 (J)	<0.03	<0.03
9/1/2016	<0.03		0.0092 (J)			
10/24/2016		<0.03				
10/25/2016	<0.03					<0.03
10/26/2016			0.0046 (J)	<0.03	<0.03	
1/3/2017		<0.03		0.0024 (J)		
1/4/2017						<0.03
1/5/2017					<0.03	
1/6/2017	<0.03		0.0042 (J)			
4/3/2017		<0.03				
4/4/2017			0.0056 (J)			<0.03
4/6/2017	<0.03			0.0051 (J)	<0.03	
7/11/2017		<0.03				
7/12/2017			0.0035 (J)	0.0031 (J)	<0.03	<0.03
7/13/2017	<0.03					
10/2/2017		<0.03				
10/3/2017				0.0027 (J)	<0.03	<0.03
10/4/2017	<0.03		0.0041 (J)			
1/9/2018	<0.03	<0.03			<0.03	
1/10/2018				0.0041 (J)		<0.03
1/11/2018			0.0052 (J)			
7/9/2018		0.001 (J)				
7/10/2018				0.005 (J)	<0.03	<0.03
7/11/2018	<0.03		0.0039 (J)			
8/26/2019	<0.03	0.0012 (J)				
8/27/2019			0.013 (J)		<0.03	<0.03
8/28/2019				<0.03		
10/7/2019		0.0012 (J)				
10/8/2019	<0.03					
10/9/2019			0.013 (J)	<0.03	<0.03	<0.03
4/6/2020	<0.03	0.00086 (J)				
4/7/2020			0.014 (J)	<0.03	<0.03	<0.03
8/17/2020		0.001 (J)				
8/19/2020	<0.03		0.014 (J)	<0.03	<0.03	<0.03
9/28/2020	<0.03	0.001 (J)				<0.03
9/30/2020				<0.03	<0.03	
10/1/2020			0.013 (J)			
3/10/2021			0.012 (J)	<0.03	<0.03	<0.03
3/11/2021	<0.03					
3/12/2021		0.0013 (J)				
9/21/2021	<0.03	0.00092 (J)	0.016 (J)	<0.03	<0.03	
9/23/2021						<0.03
1/31/2022	<0.03	0.00091 (J)				
2/2/2022			0.015 (J)		<0.03	
2/3/2022				<0.03		<0.03
8/30/2022	<0.03	<0.03	0.0175	<0.03	<0.03	
9/1/2022						<0.03
1/31/2023	<0.03	<0.03				
2/1/2023				<0.03	<0.03	
2/2/2023			0.0184			<0.03
8/28/2023	<0.03	<0.03				
8/29/2023			0.0191	<0.03	<0.03	<0.03

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Lithium (mg/L) Analysis Run 12/12/2024 2:01 PM

Grumman Road Landfill Client: Southern Company Data: Grumman Road Landfill

	GWA-7 (bg)	GWA-8 (bg)	GWB-4R	GWB-5R	GWB-6R	GWC-1
1/23/2024	<0.03	<0.03			<0.03	<0.03
2/7/2024			0.0212			
2/8/2024				<0.03		
8/19/2024	<0.03					
8/20/2024			0.0194		<0.03	<0.03
8/21/2024		<0.03		<0.03		

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Lithium (mg/L) Analysis Run 12/12/2024 2:01 PM

Grumman Road Landfill Client: Southern Company Data: Grumman Road Landfill

	GWC-11	GWC-12	GWC-13	GWC-14	GWC-15	GWC-16
8/31/2016	<0.03	<0.03	<0.03			
9/1/2016				<0.03	<0.03	<0.03
10/25/2016				<0.03	<0.03	<0.03
10/26/2016	<0.03	<0.03	<0.03			
1/4/2017	<0.03	<0.03				<0.03
1/5/2017			<0.03	<0.03	<0.03	
4/3/2017					<0.03	
4/4/2017				<0.03		
4/5/2017		0.0012 (J)				<0.03
4/6/2017	<0.03		<0.03			
7/10/2017		<0.03				
7/11/2017	<0.03			<0.03	<0.03	
7/12/2017			<0.03			<0.03
10/2/2017				<0.03	<0.03	
10/3/2017	<0.03					<0.03
10/4/2017		<0.03	<0.03			
1/9/2018				<0.03	<0.03	
1/10/2018			<0.03			<0.03
1/11/2018	<0.03	<0.03				
7/9/2018				<0.03		
7/10/2018					<0.03	<0.03
7/11/2018	<0.03	0.00098 (J)	<0.03			
8/27/2019	<0.03	0.00094 (J)	<0.03	<0.03	<0.03	
8/28/2019						<0.03
10/8/2019	<0.03		<0.03	<0.03	<0.03	<0.03
10/9/2019		0.0011 (J)				
4/7/2020	<0.03	0.00094 (J)		<0.03	<0.03	<0.03
4/8/2020			<0.03			
8/17/2020		0.00091 (J)	<0.03			
8/18/2020	<0.03			<0.03	<0.03	<0.03
9/28/2020			<0.03			
9/29/2020	<0.03	0.00086 (J)		<0.03		
9/30/2020					<0.03	<0.03
3/10/2021	<0.03	0.00095 (J)				
3/12/2021					<0.03	
3/15/2021			<0.03			
3/16/2021				<0.03		<0.03
9/21/2021	<0.03	0.00091 (J)	0.00087 (J)			
9/22/2021				<0.03		<0.03
9/23/2021					<0.03	
2/1/2022						<0.03
2/2/2022				<0.03		
2/3/2022	<0.03	0.001 (J)	0.00077 (J)		<0.03	
8/30/2022		<0.03		<0.03		
8/31/2022	<0.03		<0.03		<0.03	
9/1/2022						<0.03
2/1/2023	<0.03	<0.03	<0.03			<0.03
2/2/2023				<0.03	<0.03	
8/29/2023			<0.03			
9/6/2023	<0.03	<0.03		<0.03		<0.03
9/7/2023					<0.03	
1/24/2024	<0.03				<0.03	

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Lithium (mg/L) Analysis Run 12/12/2024 2:01 PM

Grumman Road Landfill Client: Southern Company Data: Grumman Road Landfill

	GWC-11	GWC-12	GWC-13	GWC-14	GWC-15	GWC-16
1/25/2024		<0.03	<0.03	<0.03		<0.03
8/21/2024	<0.03	<0.03	<0.03	<0.03	<0.03	<0.03

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Lithium (mg/L) Analysis Run 12/12/2024 2:01 PM

Grumman Road Landfill Client: Southern Company Data: Grumman Road Landfill

	GWC-17	GWC-2	GWC-20	GWC-21	GWC-22	GWC-9
8/31/2016		<0.03			<0.03	<0.05 (O)
9/1/2016	0.0066 (J)		<0.03	<0.03		
10/25/2016			<0.03	<0.03		
10/26/2016	0.0065 (J)	<0.03			<0.03	
10/27/2016						0.0023 (J)
1/4/2017			<0.03	<0.03	<0.03	
1/5/2017	0.0062 (J)	<0.03				
1/6/2017						0.0021 (J)
4/4/2017		<0.03	<0.03	<0.03		
4/5/2017	0.007 (J)					
4/6/2017					<0.03	0.0021 (J)
7/11/2017			<0.03		<0.03	
7/12/2017						0.0017 (J)
7/13/2017	0.0069 (J)	<0.03		<0.03		
10/2/2017			<0.03			
10/3/2017		<0.03		<0.03		
10/4/2017	0.0082 (J)				<0.03	0.0021 (J)
1/9/2018				<0.03		
1/10/2018		<0.03	<0.03			
1/11/2018	0.0061 (J)				<0.03	0.0022 (J)
7/9/2018			<0.03			
7/10/2018		<0.03		<0.03		
7/11/2018	0.0075 (J)				<0.03	0.0019 (J)
7/30/2019		<0.03				
8/27/2019		<0.03			<0.03	
8/28/2019	0.0041 (J)		<0.03	<0.03		0.0018 (J)
10/8/2019				<0.03		
10/9/2019	0.0046 (J)	<0.03	<0.03		<0.03	0.0018 (J)
4/7/2020				<0.03	<0.03	
4/8/2020	0.0051 (J)	<0.03	<0.03			0.0018 (J)
8/18/2020	0.0065 (J)	<0.03	<0.03	<0.03	<0.03	
8/19/2020						0.0019 (J)
9/29/2020		<0.03				
9/30/2020	0.0041 (J)		<0.03	<0.03	<0.03	
10/1/2020						0.0019 (J)
3/10/2021					<0.03	0.0018 (J)
3/11/2021	0.0036 (J)					
3/12/2021			<0.03			
3/15/2021		<0.03				
3/16/2021				<0.03		
9/21/2021					<0.03	
9/22/2021	0.005 (J)	<0.03	<0.03	<0.03		0.0015 (J)
2/1/2022	0.0061 (J)		<0.03	<0.03		
2/2/2022		<0.03				0.0017 (J)
2/3/2022					<0.03	
8/30/2022			<0.03	<0.03		
8/31/2022	0.00688 (J)				<0.03	
9/1/2022		<0.03				<0.03
2/1/2023	0.00532 (J)		<0.03			<0.03
2/2/2023		<0.03		<0.03	<0.03	
8/29/2023	0.00502 (J)	<0.03			<0.03	<0.03
9/6/2023			<0.03	<0.03		

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Lithium (mg/L) Analysis Run 12/12/2024 2:01 PM

Grumman Road Landfill Client: Southern Company Data: Grumman Road Landfill

	GWC-17	GWC-2	GWC-20	GWC-21	GWC-22	GWC-9
1/23/2024					<0.03	
1/24/2024	0.00477 (J)		<0.03			<0.03
1/25/2024		<0.03		<0.03		
8/21/2024	0.00567 (J)	<0.03	<0.03		<0.03	<0.03
8/22/2024				<0.03		

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Lithium (mg/L) Analysis Run 12/12/2024 2:01 PM

Grumman Road Landfill Client: Southern Company Data: Grumman Road Landfill

	MW-23D	MW-24D	MW-25D	MW-26D
3/11/2021	<0.03	<0.03	<0.03	<0.03
9/21/2021				<0.03
9/22/2021	<0.03	<0.03		
9/23/2021			<0.03	
2/1/2022		<0.03		
2/2/2022				<0.03
2/3/2022	<0.03		<0.03	
8/31/2022	<0.03		<0.03	
9/1/2022		<0.03		
2/1/2023	<0.03			
2/2/2023		<0.03	<0.03	
9/6/2023	<0.03	<0.03		
9/7/2023			<0.03	
1/24/2024	<0.03			
1/25/2024		<0.03	<0.03	<0.03
8/20/2024				<0.03
8/21/2024	<0.03	<0.03	<0.03	

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Mercury (mg/L) Analysis Run 12/12/2024 2:01 PM

Grumman Road Landfill Client: Southern Company Data: Grumman Road Landfill

	GWA-7 (bg)	GWA-8 (bg)	GWB-4R	GWB-5R	GWB-6R	GWC-1
8/30/2016		<0.0002		<0.0002	<0.0002	4E-05 (J)
9/1/2016	0.00017 (J)		<0.0002			
10/24/2016		<0.0002				
10/25/2016	<0.0002					<0.0002
10/26/2016			<0.0002	<0.0002	<0.0002	
1/3/2017		<0.0002		<0.0002		
1/4/2017						<0.0002
1/5/2017					<0.0002	
1/6/2017	<0.0002		<0.0002			
4/3/2017		<0.0002				
4/4/2017			<0.0002			<0.0002
4/6/2017	4E-05 (J)			<0.0002	<0.0002	
7/11/2017		<0.0002				
7/12/2017			<0.0002	<0.0002	<0.0002	<0.0002
7/13/2017	<0.0002					
10/2/2017		<0.0002				
10/3/2017				<0.0002	<0.0002	<0.0002
10/4/2017	0.0001 (J)		<0.0002			
1/9/2018	<0.0002	<0.0002			<0.0002	
1/10/2018				<0.0002		<0.0002
1/11/2018			<0.0002			
7/9/2018		<0.0002				
7/10/2018				<0.0002	<0.0002	<0.0002
7/11/2018	<0.0002		<0.0002			
1/16/2019	<0.0002	<0.0002	4.9E-05 (J)	<0.0002	4.3E-05 (J)	<0.0002
8/26/2019	<0.0002	<0.0002				
8/27/2019			<0.0002		<0.0002	<0.0002
8/28/2019				<0.0002		
10/9/2019				<0.0002		
8/17/2020		<0.0002				
8/19/2020	<0.0002		<0.0002	<0.0002	<0.0002	<0.0002
9/21/2021	0.0001 (J)	0.00011 (J)	0.0001 (J)	0.0001 (J)	0.0001 (J)	
9/23/2021						0.0001 (J)
1/31/2022	<0.0002	<0.0002				
2/2/2022			<0.0002		<0.0002	
2/3/2022				<0.0002		<0.0002
8/30/2022	<0.0002	<0.0002	<0.0002	8.7E-05 (J)	<0.0002	
9/1/2022						<0.0002
1/31/2023	<0.0002	<0.0002				
2/1/2023				<0.0002	<0.0002	
2/2/2023			<0.0002			<0.0002
8/28/2023	<0.0002	<0.0002				
8/29/2023			<0.0002	<0.0002	<0.0002	<0.0002
1/23/2024	<0.0002	<0.0002			<0.0002	<0.0002
2/7/2024			0.000487			
2/8/2024				0.000135 (J)		
8/19/2024	<0.0002					
8/20/2024			<0.0002		<0.0002	<0.0002
8/21/2024		<0.0002		<0.0002		

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Mercury (mg/L) Analysis Run 12/12/2024 2:01 PM

Grumman Road Landfill Client: Southern Company Data: Grumman Road Landfill

	GWC-11	GWC-12	GWC-13	GWC-14	GWC-15	GWC-16
8/31/2016	<0.0002	<0.0002	<0.0002			
9/1/2016				<0.0002	<0.0002	<0.0002
10/25/2016				<0.0002	<0.0002	<0.0002
10/26/2016	<0.0002	<0.0002	<0.0002			
1/4/2017	<0.0002	<0.0002				<0.0002
1/5/2017			<0.0002	<0.0002	<0.0002	
4/3/2017					<0.0002	
4/4/2017				<0.0002		
4/5/2017		<0.0002				<0.0002
4/6/2017	<0.0002		0.00013 (J)			
7/10/2017		<0.0002				
7/11/2017	<0.0002			<0.0002	<0.0002	
7/12/2017			<0.0002			<0.0002
10/2/2017				<0.0002	<0.0002	
10/3/2017	<0.0002					<0.0002
10/4/2017		<0.0002	<0.0002			
1/9/2018				<0.0002	<0.0002	
1/10/2018			<0.0002			<0.0002
1/11/2018	<0.0002	<0.0002				
7/9/2018				<0.0002		
7/10/2018					<0.0002	<0.0002
7/11/2018	<0.0002	<0.0002	<0.0002			
1/16/2019			<0.0002	<0.0002		
1/17/2019	<0.0002	<0.0002			<0.0002	<0.0002
8/27/2019	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	
8/28/2019						<0.0002
8/17/2020		<0.0002	<0.0002			
8/18/2020	<0.0002			<0.0002	<0.0002	<0.0002
9/21/2021	0.0001 (J)	0.0001 (J)	0.0001 (J)			
9/22/2021				0.00011 (J)		0.0001 (J)
9/23/2021					0.0001 (J)	
2/1/2022						<0.0002
2/2/2022				<0.0002		
2/3/2022	<0.0002	<0.0002	<0.0002		<0.0002	
8/30/2022		<0.0002		<0.0002		
8/31/2022	<0.0002		<0.0002		<0.0002	
9/1/2022						<0.0002
2/1/2023	<0.0002	<0.0002	<0.0002			<0.0002
2/2/2023				<0.0002	<0.0002	
8/29/2023			<0.0002			
9/6/2023	<0.0002	<0.0002		<0.0002		<0.0002
9/7/2023					<0.0002	
1/24/2024	<0.0002				<0.0002	
1/25/2024		<0.0002	<0.0002	<0.0002		<0.0002
8/21/2024	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Mercury (mg/L) Analysis Run 12/12/2024 2:01 PM

Grumman Road Landfill Client: Southern Company Data: Grumman Road Landfill

	GWC-17	GWC-2	GWC-20	GWC-21	GWC-22	GWC-9
8/31/2016		<0.0002			<0.0002	<0.0002
9/1/2016	<0.0002		<0.0002	<0.0002		
10/25/2016			<0.0002	<0.0002		
10/26/2016	<0.0002	<0.0002			<0.0002	
10/27/2016						<0.0002
1/4/2017			<0.0002	<0.0002	<0.0002	
1/5/2017	<0.0002	<0.0002				
1/6/2017						<0.0002
4/4/2017		<0.0002	<0.0002	<0.0002		
4/5/2017	<0.0002					
4/6/2017					<0.0002	<0.0002
7/11/2017			<0.0002		<0.0002	
7/12/2017						<0.0002
7/13/2017	<0.0002	<0.0002		<0.0002		
10/2/2017			<0.0002			
10/3/2017		<0.0002		<0.0002		
10/4/2017	<0.0002				<0.0002	5E-05 (J)
1/9/2018				<0.0002		
1/10/2018		<0.0002	<0.0002			
1/11/2018	<0.0002				<0.0002	<0.0002
7/9/2018			<0.0002			
7/10/2018		<0.0002		<0.0002		
7/11/2018	<0.0002				<0.0002	<0.0002
1/16/2019	<0.0002					
1/17/2019				<0.0002		
1/18/2019					<0.0002	<0.0002
1/21/2019		<0.0002	<0.0002			
7/30/2019		<0.0002				
8/27/2019		<0.0002			<0.0002	
8/28/2019	<0.0002		<0.0002	<0.0002		<0.0002
8/18/2020	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	
8/19/2020						<0.0002
9/21/2021					0.0001 (J)	
9/22/2021	0.00011 (J)	0.0001 (J)	0.00011 (J)	0.00011 (J)		0.00011 (J)
2/1/2022	<0.0002		<0.0002	<0.0002		
2/2/2022		<0.0002				<0.0002
2/3/2022					<0.0002	
8/30/2022			<0.0002	<0.0002		
8/31/2022	<0.0002				<0.0002	
9/1/2022		<0.0002				<0.0002
2/1/2023	<0.0002		<0.0002			<0.0002
2/2/2023		<0.0002		<0.0002	<0.0002	
8/29/2023	<0.0002	<0.0002			<0.0002	<0.0002
9/6/2023			<0.0002	<0.0002		
1/23/2024					<0.0002	
1/24/2024	0.000172 (J)		<0.0002			<0.0002
1/25/2024		<0.0002		<0.0002		
8/21/2024	<0.0002	<0.0002	<0.0002		<0.0002	<0.0002
8/22/2024				<0.0002		

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Mercury (mg/L) Analysis Run 12/12/2024 2:01 PM

Grumman Road Landfill Client: Southern Company Data: Grumman Road Landfill

	MW-23D	MW-24D	MW-25D	MW-26D
9/21/2021				0.0001 (J)
9/22/2021	0.00011 (J)	0.0001 (J)		
9/23/2021			0.0001 (J)	
2/1/2022		<0.0002		
2/2/2022				<0.0002
2/3/2022	<0.0002		<0.0002	
8/31/2022	<0.0002		<0.0002	
9/1/2022		<0.0002		
2/1/2023	<0.0002			
2/2/2023		<0.0002	<0.0002	
9/6/2023	<0.0002	<0.0002		
9/7/2023			<0.0002	
1/24/2024	<0.0002			
1/25/2024		<0.0002	<0.0002	<0.0002
8/20/2024				<0.0002
8/21/2024	<0.0002	<0.0002	<0.0002	

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Molybdenum (mg/L) Analysis Run 12/12/2024 2:01 PM

Grumman Road Landfill Client: Southern Company Data: Grumman Road Landfill

	GWA-7 (bg)	GWA-8 (bg)	GWB-4R	GWB-5R	GWB-6R	GWC-1
8/30/2016		<0.001		<0.001	<0.01	0.175
9/1/2016	0.0098 (J)		0.035			
10/24/2016		<0.001				
10/25/2016	<0.05					0.242
10/26/2016			0.0267	<0.001	<0.01	
1/3/2017		<0.001		<0.001		
1/4/2017						0.167
1/5/2017					<0.01	
1/6/2017	<0.05		0.0278			
4/3/2017		<0.001				
4/4/2017			0.0265			0.172
4/6/2017	<0.05			<0.001	<0.01	
7/11/2017		<0.001				
7/12/2017			0.0209	<0.001	<0.01	0.182
7/13/2017	0.0013 (J)					
10/2/2017		<0.001				
10/3/2017				<0.001	<0.01	0.162
10/4/2017	0.0013 (J)		0.0181			
1/9/2018	<0.05	<0.001			<0.01	
1/10/2018				<0.001		0.117
1/11/2018			0.0237			
7/9/2018		<0.001				
7/10/2018				<0.001	<0.01	0.11
7/11/2018	<0.05		0.024			
8/26/2019	<0.05	<0.001				
8/27/2019			0.1		0.0026 (J)	0.06
8/28/2019				0.0012 (J)		
10/7/2019		<0.001				
10/8/2019	<0.05					
10/9/2019			0.1	<0.001	<0.01	0.06
4/6/2020	<0.05	<0.001				
4/7/2020			0.13	<0.001	<0.01	0.014
8/17/2020		<0.001				
8/19/2020	<0.05		0.16	<0.001	0.001 (J)	0.061
9/28/2020	<0.05	<0.001				0.059
9/30/2020				<0.001	0.00097 (J)	
10/1/2020			0.15			
3/10/2021			0.12	<0.001	0.0013 (J)	0.057
3/11/2021	<0.05					
3/12/2021		<0.001				
9/21/2021	<0.05	<0.001	0.12	<0.001	<0.01	
9/23/2021						0.06
1/31/2022	<0.05	<0.001				
2/2/2022			0.11		0.00085 (J)	
2/3/2022				<0.001		0.038
8/30/2022	0.000453 (J)	<0.001	0.154	<0.001	0.000649 (J)	
9/1/2022						0.0343
1/31/2023	0.000364 (J)	<0.001				
2/1/2023				0.00069 (J)	0.000553 (J)	
2/2/2023			0.199			0.0433
8/28/2023	0.000543 (J)	<0.001				
8/29/2023			0.136	<0.001	0.000729 (J)	0.0293

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Molybdenum (mg/L) Analysis Run 12/12/2024 2:01 PM

Grumman Road Landfill Client: Southern Company Data: Grumman Road Landfill

	GWA-7 (bg)	GWA-8 (bg)	GWB-4R	GWB-5R	GWB-6R	GWC-1
1/23/2024	0.000396 (J)	<0.001			0.000349 (J)	0.0408
2/7/2024			0.138			
2/8/2024				0.002		
8/19/2024	0.000468 (J)					
8/20/2024			0.103		0.000521 (J)	0.016
8/21/2024		<0.001		0.000577 (J)		

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Molybdenum (mg/L) Analysis Run 12/12/2024 2:01 PM

Grumman Road Landfill Client: Southern Company Data: Grumman Road Landfill

	GWC-11	GWC-12	GWC-13	GWC-14	GWC-15	GWC-16
8/31/2016	<0.01	<0.001	<0.001			
9/1/2016				0.0027 (J)	0.132	0.08
10/25/2016				0.0028 (J)	0.117	0.08
10/26/2016	<0.01	<0.001	<0.001			
1/4/2017	<0.01	<0.001				0.0786
1/5/2017			<0.001	0.0022 (J)	0.109	
4/3/2017					0.0994	
4/4/2017				0.0022 (J)		
4/5/2017		<0.001				0.113
4/6/2017	<0.01		<0.001			
7/10/2017		<0.001				
7/11/2017	<0.01			0.0024 (J)	0.0938	
7/12/2017			<0.001			0.178
10/2/2017				0.0025 (J)	0.103	
10/3/2017	<0.01					0.201
10/4/2017		<0.001	<0.001			
1/9/2018				0.0038 (J)	0.106	
1/10/2018			<0.001			0.161
1/11/2018	0.0018 (J)	<0.001				
7/9/2018				0.01		
7/10/2018					0.088	0.14
7/11/2018	<0.01	<0.001	<0.001			
8/27/2019	<0.01	<0.001	<0.001	0.028	0.095	
8/28/2019						0.22
10/8/2019	<0.01		<0.001	0.034	0.091	0.2
10/9/2019		<0.001				
4/7/2020	<0.01	<0.001		0.014	0.07	0.25
4/8/2020			0.0056 (J)			
8/17/2020		<0.001	<0.001			
8/18/2020	0.00077 (J)			0.017	0.12	0.15
9/28/2020			<0.001			
9/29/2020	<0.01	<0.001		0.0089 (J)		
9/30/2020					0.11	0.15
3/10/2021	<0.01	<0.001				
3/12/2021					0.098	
3/15/2021			<0.001			
3/16/2021				0.0054 (J)		0.31
9/21/2021	<0.01	<0.001	<0.001			
9/22/2021				0.018		0.22
9/23/2021					0.094	
2/1/2022						0.18
2/2/2022				0.015		
2/3/2022	<0.01	<0.001	<0.001		0.086	
8/30/2022		0.000205 (J)		0.0133		
8/31/2022	0.000512 (J)		<0.001		0.0786	
9/1/2022						0.154
2/1/2023	0.000613 (J)	<0.001	<0.001			0.136
2/2/2023				0.0167	0.0748	
8/29/2023			<0.001			
9/6/2023	0.000804 (J)	<0.001		0.0199		0.0886
9/7/2023					0.0588	
1/24/2024	0.000534 (J)				0.0677	

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Molybdenum (mg/L) Analysis Run 12/12/2024 2:01 PM

Grumman Road Landfill Client: Southern Company Data: Grumman Road Landfill

	GWC-11	GWC-12	GWC-13	GWC-14	GWC-15	GWC-16
1/25/2024		<0.001	<0.001	0.0151		0.0816
8/21/2024	0.000489 (J)	<0.001	<0.001	0.00505	0.0752	0.114

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Molybdenum (mg/L) Analysis Run 12/12/2024 2:01 PM

Grumman Road Landfill Client: Southern Company Data: Grumman Road Landfill

	GWC-17	GWC-2	GWC-20	GWC-21	GWC-22	GWC-9
8/31/2016		<0.001			<0.001	<0.001
9/1/2016	<0.01		0.296	0.0686		
10/25/2016			0.395	0.0018 (J)		
10/26/2016	<0.01	<0.001			<0.001	
10/27/2016						<0.001
1/4/2017			0.229	0.0222	<0.001	
1/5/2017	<0.01	<0.001				
1/6/2017						<0.001
4/4/2017		<0.001	0.147	0.0476		
4/5/2017	<0.01					
4/6/2017					<0.001	<0.001
7/11/2017			0.136		<0.001	
7/12/2017						<0.001
7/13/2017	<0.01	<0.001		0.0105		
10/2/2017			0.13			
10/3/2017		<0.001		0.0031 (J)		
10/4/2017	<0.01				<0.001	<0.001
1/9/2018				0.09		
1/10/2018		<0.001	0.229			
1/11/2018	<0.01				<0.001	<0.001
7/9/2018			0.13			
7/10/2018		<0.001		0.047		
7/11/2018	<0.01				<0.001	<0.001
7/30/2019		<0.001				
8/27/2019		<0.001			<0.001	
8/28/2019	0.004 (J)		0.11	0.07		<0.001
10/8/2019				0.078		
10/9/2019	0.0036 (J)	<0.001	0.071		<0.001	<0.001
4/7/2020				0.012	<0.001	
4/8/2020	0.0024 (J)	<0.001	0.06			<0.001
8/18/2020	0.00092 (J)	<0.001	0.097	0.069	<0.001	
8/19/2020						<0.001
9/29/2020		<0.001				
9/30/2020	0.0041 (J)		0.33	0.028	<0.001	
10/1/2020						<0.001
3/10/2021					<0.001	<0.001
3/11/2021	0.0038 (J)					
3/12/2021			0.53			
3/15/2021		<0.001				
3/16/2021				0.024		
9/21/2021					<0.001	
9/22/2021	0.0053 (J)	<0.001	0.5	0.0019 (J)		<0.001
2/1/2022	0.003 (J)		0.77	0.042		
2/2/2022		<0.001				<0.001
2/3/2022					<0.001	
8/30/2022			0.309	0.049		
8/31/2022	0.00252				<0.001	
9/1/2022		<0.001				<0.001
2/1/2023	0.00484		0.384			<0.001
2/2/2023		<0.001		0.0352	0.000334 (J)	
8/29/2023	0.00312	<0.001			<0.001	<0.001
9/6/2023			0.753	0.0458		

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Molybdenum (mg/L) Analysis Run 12/12/2024 2:01 PM

Grumman Road Landfill Client: Southern Company Data: Grumman Road Landfill

	GWC-17	GWC-2	GWC-20	GWC-21	GWC-22	GWC-9
1/23/2024					<0.001	
1/24/2024	0.00353		0.12			<0.001
1/25/2024		0.000312 (J)		0.0355		
8/21/2024	0.00354	<0.001	0.506		<0.001	<0.001
8/22/2024				0.0159		

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Molybdenum (mg/L) Analysis Run 12/12/2024 2:01 PM

Grumman Road Landfill Client: Southern Company Data: Grumman Road Landfill

	MW-23D	MW-24D	MW-25D	MW-26D
1/20/2021			0.0011 (J)	<0.001
1/21/2021	<0.001	0.0014 (J)		
3/11/2021	<0.001	0.0035 (J)	0.0015 (J)	<0.001
9/21/2021				<0.001
9/22/2021	<0.001	0.0032 (J)		
9/23/2021			<0.001	
2/1/2022		0.0024 (J)		
2/2/2022				<0.001
2/3/2022	<0.001		<0.001	
8/31/2022	<0.001		0.000863 (J)	
9/1/2022		0.00174		
2/1/2023	<0.001			
2/2/2023		0.00113	<0.001	
9/6/2023	<0.001	0.000882 (J)		
9/7/2023			<0.001	
1/24/2024	0.000408 (J)			
1/25/2024		0.000995 (J)	0.000257 (J)	<0.001
8/20/2024				<0.001
8/21/2024	<0.001	0.000894 (J)	<0.001	

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: pH (SU) Analysis Run 12/12/2024 2:01 PM

Grumman Road Landfill Client: Southern Company Data: Grumman Road Landfill

	GWA-7 (bg)	GWA-8 (bg)	GWB-4R	GWB-5R	GWB-6R	GWC-1
7/16/2013			6.22	5.95	5.25	5.38
10/11/2014		4.42				
10/24/2016		4.36				
10/25/2016	6.17					5.51
10/26/2016			6.06	5.27	5.21	
1/3/2017		4.28		5.09		
1/4/2017						5.46
1/5/2017					5.2	
1/6/2017	6.16		6.02			
4/3/2017		4.29				
4/4/2017			6.08			5.43
4/6/2017	6.26			5.22	5.17	
7/11/2017		4.35				
7/12/2017			5.93	5.29	5.24	5.46
7/13/2017	5.99					
10/2/2017		4.32				
10/3/2017				5.08	5.36	5.65
10/4/2017	6.16		5.77			
1/9/2018	6.43	4.44			5.4	
1/10/2018				5.83		5.67
1/11/2018			5.98			
7/9/2018		4.4				
7/10/2018				6.42	5.31	5.71
7/11/2018	6.1		6.01			
1/16/2019	6.05	6.16 (O)	5.83	6.66	5.99	5.59
3/25/2019	6.06	4.4	5.74			
3/26/2019				5.1	5.94	5.77
8/26/2019	5.91	4.26				
8/27/2019			5.7		5.67	5.84
8/28/2019				5.95		
10/7/2019		4.24				
10/8/2019	5.74					
10/9/2019			5.79	6.11	5.66	5.82
4/6/2020	6.02	4.52				
4/7/2020			5.74	5.45	5.86	5.3
8/17/2020		4.23				
8/19/2020	5.81 (D)		5.7	5.14 (D)	5.21	5.73
9/28/2020	5.86	4.41				5.79
9/30/2020				4.99	5.39	
10/1/2020			5.75			
3/10/2021			5.23	4.73	5.69	5.42
3/11/2021	5.85					
3/12/2021		4.54				
9/21/2021	6.03	4.44	5.78	4.68	5.4	
9/23/2021						6.06
1/31/2022	5.94	4.39				
2/2/2022			5.71		5.75	
2/3/2022				4.48		5.89
8/30/2022	5.98	4.58	5.67	5.22	5.55	
9/1/2022						5.8
1/31/2023	6.02	4.6				
2/1/2023				5.81	5.54	

Time Series

Constituent: pH (SU) Analysis Run 12/12/2024 2:01 PM

Grumman Road Landfill Client: Southern Company Data: Grumman Road Landfill

	GWA-7 (bg)	GWA-8 (bg)	GWB-4R	GWB-5R	GWB-6R	GWC-1
2/2/2023			5.99			5.78
8/28/2023	5.94	4.62				
8/29/2023			5.82	5.17	5.33	5.68
1/23/2024	6.08	4.68			5.57	5.96
1/24/2024				6.28		
1/25/2024			6.17			
8/19/2024	6.19					
8/20/2024			6.28		5.62	5.83
8/21/2024		4.59		6		

Time Series

Constituent: pH (SU) Analysis Run 12/12/2024 2:01 PM

Grumman Road Landfill Client: Southern Company Data: Grumman Road Landfill

	GWC-11	GWC-12	GWC-13	GWC-14	GWC-15	GWC-16
7/16/2013	5.2	4.17	4.95	4.62	5.96	4.92
10/11/2014				4.58		5.17
10/25/2016				4.79	6.46	5.58
10/26/2016	5.08	4.04	4.95			
1/4/2017	5.06	4.01				5.51
1/5/2017			4.97	4.73	6.25	
4/3/2017					6.25	
4/4/2017				4.68		
4/5/2017		4	4.81			5.51
4/6/2017	4.97					
7/10/2017		3.89				
7/11/2017	5.26			4.72	6.5	
7/12/2017			4.83			5.84
10/2/2017				5.13	6.83	
10/3/2017	5.07					5.55
10/4/2017		4.06	4.71			
1/9/2018				5.59	6.57	
1/10/2018			5.17			5.99
1/11/2018	5.18	3.96				
7/9/2018				5.11		
7/10/2018					6.42	5.5
7/11/2018	4.82	3.95	4.49			
1/16/2019			6.45 (O)	6.82		
1/17/2019	4.91	3.89			8.44 (O)	7.13
3/26/2019			4.96	5.74	6.65	5.57
3/27/2019	5.18	4.11				
8/27/2019	5.17	4.02	4.9	5.58	6.57	
8/28/2019						5.57
10/8/2019	4.93		4.81	5.68	6.65	5.54
10/9/2019		4.25				
4/7/2020	5.05	4.1		6.2	6.83	5.94
4/8/2020			4.81			
8/17/2020		3.94	4.65			
8/18/2020	4.41			5.56	6.39	5.52
9/28/2020			4.76			
9/29/2020	4.77	3.95		5.69		
9/30/2020					6.71	5.47
3/10/2021	4.97	4.08				
3/12/2021					6.21	
3/15/2021			4.74			
3/16/2021				5.53		5.67
9/21/2021	4.92	4.05	4.83			
9/22/2021				5.76		5.57
9/23/2021					6.48	
2/1/2022						5.57
2/2/2022				5.98		
2/3/2022	4.98	4.04	4.97		6.61	
8/30/2022		3.92		5.86		
8/31/2022	4.85		4.76		6.57	
9/1/2022						5.37
2/1/2023	4.71	3.93	4.86			5.23
2/2/2023				5.98	6.65	

Time Series

Constituent: pH (SU) Analysis Run 12/12/2024 2:01 PM

Grumman Road Landfill Client: Southern Company Data: Grumman Road Landfill

	GWC-11	GWC-12	GWC-13	GWC-14	GWC-15	GWC-16
8/29/2023			4.89			
9/6/2023	5.05	4.35		6.19		5.16
9/7/2023					6.64	
1/24/2024	4.95				6.61	
1/25/2024		3.84	4.9	6.11		5.35
8/21/2024	5.02	4.09	4.73	5.75	6.69	5.53

Time Series

Constituent: pH (SU) Analysis Run 12/12/2024 2:01 PM

Grumman Road Landfill Client: Southern Company Data: Grumman Road Landfill

	GWC-17	GWC-2	GWC-20	GWC-21	GWC-22	GWC-9
7/16/2013	4.55	4.52	6.1	5.71	4.91	5.05
10/25/2016			6.06	5.41		
10/26/2016	4.45	4.48			4.6	
10/27/2016						4.65
1/4/2017			6.05	5.6	4.63	
1/5/2017	4.45	4.85				
1/6/2017						4.56
4/4/2017		4.58	6.03	5.94		
4/5/2017	4.33					
4/6/2017					4.79	4.5
7/11/2017			5.96		4.73	
7/12/2017						4.56
7/13/2017	4.11	4.74		5.6		
10/2/2017			5.88			
10/3/2017		4.57		5.18		
10/4/2017	4.09				4.74	4.72
1/9/2018				6.14		
1/10/2018		5.31	6.21			
1/11/2018	4.4				5.22	4.34
7/9/2018			6.24			
7/10/2018		4.58		5.7		
7/11/2018	4.07				4.68	4.68
1/16/2019	4.05					
1/17/2019				7.39		
1/18/2019					6.98 (O)	6.87 (O)
1/21/2019		5.05	7.73 (O)			
3/25/2019			6.28			
3/26/2019	4.62			6.08		
3/27/2019					4.77	4.38
7/30/2019		4.74				
8/27/2019		4.77			4.89	
8/28/2019	4.62		6.34	6.05		4.68
10/8/2019				6.09		
10/9/2019	4.66	4.79	6.5		4.68	4.62
4/7/2020				6	4.8	
4/8/2020	4.71	4.66	6.31			4.73
8/18/2020	4.31	4.6	5.89	5.82	4.52	
8/19/2020						4.58
9/29/2020		4.6				
9/30/2020	4.08		6.04	5.82	4.63	
10/1/2020						4.42
3/10/2021					4.82	4.55
3/11/2021	5.2					
3/12/2021			5.86			
3/15/2021		4.56				
3/16/2021				5.74		
9/21/2021					4.72	
9/22/2021	4.63	4.71	6	5.39		4.7
2/1/2022	4.53		5.9	5.76		
2/2/2022		4.79				4.66
2/3/2022					4.63	
8/30/2022			6.01	5.76		

Time Series

Constituent: pH (SU) Analysis Run 12/12/2024 2:01 PM

Grumman Road Landfill Client: Southern Company Data: Grumman Road Landfill

	GWC-17	GWC-2	GWC-20	GWC-21	GWC-22	GWC-9
8/31/2022	4.33				4.68	
9/1/2022		4.73				4.6
2/1/2023	4.74		6.01			4.57
2/2/2023		4.6		5.71	4.63	
8/29/2023	4.66	4.68			4.55	4.56
9/6/2023			5.86	5.78		
1/23/2024					4.84	
1/24/2024	4.74		6.41			4.65
1/25/2024		4.79		5.77		
8/21/2024	4.47	4.76	6.03		4.81	4.64
8/22/2024				5.54		

Time Series

Constituent: pH (SU) Analysis Run 12/12/2024 2:01 PM

Grumman Road Landfill Client: Southern Company Data: Grumman Road Landfill

	MW-23D	MW-24D	MW-25D	MW-26D
1/20/2021			6.25	5.66
1/21/2021	5.75	6.13		
3/11/2021	5.82	6.47	6.31	6
9/21/2021				5.88
9/22/2021	6.39	6.76		
9/23/2021			6.21	
2/1/2022		6.63		
2/2/2022				5.82
2/3/2022	6.14		6.15	
8/31/2022	6.06		6.29	
9/1/2022		6.08		
2/1/2023	6.16			
2/2/2023		6.23	6.19	
9/6/2023	5.92	5.64		
9/7/2023			6.09	
1/24/2024	6.12			
1/25/2024		6.21	6.15	5.56
8/20/2024				5.72
8/21/2024	6.2	6.12	6.02	

Time Series

Constituent: Selenium (mg/L) Analysis Run 12/12/2024 2:01 PM

Grumman Road Landfill Client: Southern Company Data: Grumman Road Landfill

	GWA-7 (bg)	GWA-8 (bg)	GWB-4R	GWB-5R	GWB-6R	GWC-1
9/29/2000	<0.025	<0.005	<0.005	<0.005	<0.01	<0.01
11/21/2000	<0.025		<0.005	<0.005	<0.01	<0.01
1/20/2001	<0.025	<0.005	0.014 (O)	<0.005	<0.01	0.017
3/14/2001	<0.025	<0.005	<0.005	<0.005	<0.01	<0.01
7/16/2001	<0.025	<0.005	0.015 (O)	<0.005	<0.01	<0.01
11/1/2001	<0.025	<0.005	0.012 (O)	<0.005	<0.01	<0.01
4/25/2002	<0.025	<0.005	0.01	<0.005	<0.01	0.012
11/20/2002		<0.005	0.026 (O)	0.0064	0.008	0.19 (O)
6/6/2003	<0.025	<0.005	0.022 (O)	0.011	0.0066	0.32 (O)
12/12/2003	<0.025	<0.005	0.028 (O)	<0.005	0.0056	0.013
5/26/2004	<0.025	<0.005	0.012 (O)	0.007	0.0084	0.017
12/7/2004	<0.025	<0.005	0.0073	<0.005	<0.01	0.011
6/21/2005	<0.025	<0.005	0.0087	0.0063	0.0062	0.0088
12/12/2005	<0.025	<0.005	0.013 (O)	<0.005	<0.01	0.011
4/4/2006		<0.005				
6/27/2006	<0.025	<0.005	<0.005	<0.005	<0.01	<0.01
8/30/2006		<0.005				
12/4/2006	<0.025	<0.005	<0.005	<0.005	<0.01	<0.01
2/15/2007		<0.005				
6/23/2007	<0.025	<0.005	<0.005	<0.005	<0.01	<0.01
9/11/2007		<0.005				
12/11/2007	<0.025	<0.005	<0.005	<0.005	<0.01	<0.01
3/11/2008		<0.005				
6/23/2008	<0.025	<0.005				
6/24/2008			<0.005	<0.005	<0.01	<0.01
11/3/2008		<0.005				
12/4/2008	<0.025	<0.005				
12/5/2008			<0.005	<0.005	<0.01	<0.01
3/25/2009		<0.005				
7/7/2009	<0.025	<0.005	<0.005	<0.005	<0.01	<0.01
9/14/2009		<0.005				
12/20/2009	<0.025	<0.005				<0.01
12/21/2009			<0.005	<0.005	<0.01	
3/4/2010		<0.005				
6/20/2010	<0.025	<0.005		<0.005	<0.01	<0.01
6/21/2010			<0.005			
9/14/2010		<0.005				
1/6/2011				<0.005		<0.01
1/7/2011	<0.025	<0.005	<0.005		<0.01	
4/15/2011		<0.005				
7/7/2011	<0.025	<0.005		<0.005	<0.01	<0.01
7/8/2011			<0.005			
9/25/2011		<0.005				
1/17/2012	<0.025	<0.005		<0.005		<0.01
1/18/2012			<0.005		<0.01	
4/4/2012		<0.005				
7/9/2012	<0.025			<0.005		<0.01
7/10/2012		<0.005	<0.005		<0.01	
10/9/2012		<0.005				
1/17/2013				<0.005		<0.01
1/18/2013	0.009	<0.005	<0.005		<0.01	
4/5/2013		<0.005				

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Selenium (mg/L) Analysis Run 12/12/2024 2:01 PM

Grumman Road Landfill Client: Southern Company Data: Grumman Road Landfill

	GWA-7 (bg)	GWA-8 (bg)	GWB-4R	GWB-5R	GWB-6R	GWC-1
7/16/2013				<0.005		0.012
7/17/2013	0.011	<0.005	<0.005		<0.01	
10/11/2013		<0.005				
1/13/2014	0.012			<0.005		<0.01
1/14/2014		<0.005	<0.005		<0.01	
4/3/2014		<0.005				
7/9/2014	0.011	<0.005	<0.005	<0.005	<0.01	<0.01
10/24/2014		<0.005				
1/12/2015			<0.005			
1/13/2015	0.0092			<0.005		<0.01
1/14/2015		<0.005			<0.01	
5/10/2015		<0.005				
7/16/2015	0.014		<0.005	<0.005		<0.01
7/17/2015		<0.005			<0.01	
10/6/2015		<0.005				
1/17/2016						0.023
1/18/2016	0.023	<0.005	<0.005	<0.005	<0.01	
4/26/2016		<0.005				
7/27/2016	0.0323			<0.005		0.002 (J)
7/28/2016		0.001 (J)			<0.01	
7/29/2016			0.0036 (J)			
8/30/2016		<0.005		<0.005	<0.01	0.002 (J)
9/1/2016	0.0438		0.0067 (J)			
10/24/2016		0.0013 (J)				
10/25/2016	0.031					0.0022 (J)
10/26/2016			0.0042 (J)	<0.005	<0.01	
1/3/2017		<0.005		<0.005		
1/4/2017						0.0016 (J)
1/5/2017					0.0014 (J)	
1/6/2017	0.0324		0.0042 (J)			
4/3/2017		<0.005				
4/4/2017			0.0043 (J)			0.0052 (J)
4/6/2017	0.0188 (J)			<0.005	<0.01	
7/11/2017		<0.005				
7/12/2017			0.0033 (J)	<0.005	<0.01	0.0024 (J)
7/13/2017	0.0118					
10/2/2017		<0.005				
10/3/2017				<0.005	<0.01	<0.01
10/4/2017	0.0195		0.0038 (J)			
1/9/2018	<0.025	<0.005			<0.01	
1/10/2018				<0.005		0.0018 (J)
1/11/2018			0.0029 (J)			
7/9/2018		<0.005				
7/10/2018				0.0018 (J)	0.0016 (J)	0.0026 (J)
7/11/2018	<0.025		0.0015 (J)			
1/16/2019	0.0071 (J)	<0.005	<0.005	<0.005	<0.01	0.0018 (J)
3/25/2019	<0.025	<0.005	<0.005			
3/26/2019				<0.005	0.05 (J)	0.0023 (J)
8/26/2019	<0.025	<0.005				
8/27/2019			<0.005		0.0033 (J)	0.0016 (J)
8/28/2019				0.0033 (J)		
10/7/2019		<0.005				

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Selenium (mg/L) Analysis Run 12/12/2024 2:01 PM

Grumman Road Landfill Client: Southern Company Data: Grumman Road Landfill

	GWA-7 (bg)	GWA-8 (bg)	GWB-4R	GWB-5R	GWB-6R	GWC-1
10/8/2019	0.0072 (J)					
10/9/2019			<0.005	0.0073 (J)	<0.01	0.0024 (J)
4/6/2020	0.0078 (J)	<0.005				
4/7/2020			0.0025 (J)	<0.005	<0.01	0.0013 (J)
8/17/2020		<0.005				
8/19/2020	<0.025		<0.005	<0.005	<0.01	0.002 (J)
9/28/2020	0.01 (J)	<0.005				<0.01
9/30/2020				<0.005	0.0023 (J)	
10/1/2020			<0.005			
3/10/2021			0.0021 (J)	0.006	0.0049 (J)	0.0026 (J)
3/11/2021	<0.025					
3/12/2021		<0.005				
9/21/2021	<0.025	<0.005	<0.005	<0.005	0.0016 (J)	
9/23/2021						0.0018 (J)
1/31/2022	<0.025	<0.005				
2/2/2022			<0.005		0.0017 (J)	
2/3/2022				<0.005		0.0022 (J)
8/30/2022	0.0063	<0.005	0.00265 (J)	<0.005	0.00277 (J)	
9/1/2022						0.00252 (J)
1/31/2023	0.00443 (J)	<0.005				
2/1/2023				0.00187 (J)	0.00182 (J)	
2/2/2023			0.00466 (J)			0.0022 (J)
8/28/2023	0.00544	<0.005				
8/29/2023			0.00261 (J)	<0.005	0.00204 (J)	0.00182 (J)
1/23/2024	0.00657	<0.005			0.00223 (J)	0.00168 (J)
2/7/2024			0.00258 (J)			
2/8/2024				0.00485 (J)		
8/19/2024	0.00709					
8/20/2024			0.00381 (J)		0.00254 (J)	0.00155 (J)
8/21/2024		<0.005		0.00214 (J)		

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Selenium (mg/L) Analysis Run 12/12/2024 2:01 PM

Grumman Road Landfill Client: Southern Company Data: Grumman Road Landfill

	GWC-11	GWC-12	GWC-13	GWC-14	GWC-15	GWC-16
9/29/2000	<0.01	<0.005	<0.005	<0.005	<0.005	<0.005
11/21/2000	<0.01	<0.005	<0.005	0.052	<0.005	<0.005
1/20/2001	<0.01	<0.005	<0.005	0.053	<0.005	<0.005
3/14/2001	<0.01	<0.005	<0.005	0.049	<0.005	<0.005
7/16/2001	<0.01	<0.005	<0.005	0.038	<0.005	<0.005
11/1/2001	<0.01	<0.005	<0.005	0.022	<0.005	<0.005
4/25/2002	<0.01	<0.005	<0.005	0.1	<0.005	<0.005
11/20/2002	<0.01	<0.005	<0.005	0.018	0.0094	<0.005
6/6/2003	<0.01	<0.005	<0.005	<0.005	0.021 (O)	0.021 (O)
12/12/2003	<0.01	<0.005	<0.005	<0.005	0.016 (O)	0.0078
5/26/2004	<0.01	<0.005	<0.005	0.023	<0.005	0.0053
12/7/2004	<0.01	<0.005	<0.005	0.019	<0.005	<0.005
6/21/2005	<0.01	<0.005	<0.005	0.019	<0.005	<0.005
12/12/2005	<0.01	<0.005	<0.005	0.0095	<0.005	<0.005
4/4/2006				0.033		<0.005
6/27/2006	<0.01	<0.005	<0.005	<0.005	<0.005	<0.005
8/30/2006				<0.005		<0.005
12/4/2006	<0.01	<0.005	<0.005	0.032	<0.005	<0.005
2/15/2007				0.034		<0.005
6/23/2007	<0.01	<0.005	<0.005	<0.005	<0.005	<0.005
9/11/2007				0.022		<0.005
12/11/2007	<0.01	<0.005	<0.005	0.045	<0.005	<0.005
3/11/2008				0.02		<0.005
6/23/2008	<0.01	<0.005	<0.005			
6/24/2008				<0.005	<0.005	<0.005
11/3/2008				0.052		<0.005
12/4/2008	<0.01	<0.005	<0.005	0.054		
12/5/2008					<0.005	<0.005
3/25/2009				0.072		<0.005
7/8/2009	<0.01	<0.005	<0.005	0.021	<0.005	<0.005
9/14/2009				0.015		<0.005
12/20/2009				0.072	<0.005	<0.005
12/21/2009	<0.01	<0.005	<0.005			
3/4/2010				0.083		<0.005
6/20/2010	<0.01	<0.005	<0.005	0.1	<0.005	
6/21/2010						<0.005
9/14/2010				0.085		<0.005
1/6/2011	<0.01		<0.005			
1/7/2011		<0.005		0.028	<0.005	<0.005
4/15/2011				<0.005		<0.005
7/7/2011	<0.01	<0.005	<0.005	<0.005	<0.005	<0.005
9/25/2011				0.02		<0.005
1/17/2012	0.023	<0.005	<0.005	0.016	<0.005	
1/18/2012						<0.005
4/4/2012				0.0156		<0.005
7/9/2012	0.016	<0.005	<0.005	<0.005	0.066	
7/10/2012						<0.005
10/9/2012				0.0094		<0.005
1/17/2013	0.033	<0.005	<0.005			
1/18/2013				0.0067	0.04 (O)	<0.005
4/5/2013				0.0077		<0.005
7/16/2013	0.0068	<0.005	<0.005			

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Selenium (mg/L) Analysis Run 12/12/2024 2:01 PM

Grumman Road Landfill Client: Southern Company Data: Grumman Road Landfill

	GWC-11	GWC-12	GWC-13	GWC-14	GWC-15	GWC-16
7/17/2013				0.01	<0.005	<0.005
10/11/2013				0.0087		0.0069
1/13/2014	0.036	<0.005	<0.005		<0.005	
1/14/2014				0.012		<0.005
4/3/2014				0.022		<0.005
7/8/2014	0.017	<0.005	<0.005			
7/9/2014				0.0089	<0.005	0.005
10/24/2014				0.017		<0.005
1/13/2015	0.027	<0.005	<0.005		<0.005	
1/14/2015				<0.005		<0.005
5/10/2015				<0.005		
5/11/2015						<0.005
7/16/2015	<0.01	<0.005	<0.005		<0.005	<0.005
7/17/2015				<0.005		
10/6/2015				<0.005		0.0073
1/17/2016				<0.005	<0.005	0.0031 (J)
1/18/2016		<0.005	<0.005			
1/19/2016	0.023					
4/26/2016				0.00428 (J)		0.00497 (J)
7/26/2016	0.0056 (J)		<0.005			
7/27/2016		0.0025 (J)		0.0038 (J)	<0.005	
7/28/2016						0.0076 (J)
8/31/2016	0.0084 (J)	0.0019 (J)	<0.005			
9/1/2016				0.0056 (J)	<0.005	0.0052 (J)
10/25/2016				0.0023 (J)	<0.005	0.0085 (J)
10/26/2016	0.0052 (J)	0.002 (J)	<0.005			
1/4/2017	0.0062 (J)	<0.005				0.0048 (J)
1/5/2017			<0.005	0.0038 (J)	<0.005	
4/3/2017					<0.005	
4/4/2017				0.0064 (J)		
4/5/2017		<0.005				0.0068 (J)
4/6/2017	0.0195		<0.005			
7/10/2017		<0.005				
7/11/2017	<0.01			0.0044 (J)	<0.005	
7/12/2017			<0.005			0.0048 (J)
10/2/2017				0.004 (J)	<0.005	
10/3/2017	0.0079 (J)					0.0051 (J)
10/4/2017		<0.005	<0.005			
1/9/2018				0.0019 (J)	0.0019 (J)	
1/10/2018			<0.005			0.0018 (J)
1/11/2018	0.0054 (J)	<0.005				
7/9/2018				0.0029 (J)		
7/10/2018					0.0086 (J)	0.0045 (J)
7/11/2018	0.0022 (J)	<0.005	<0.005			
1/16/2019			<0.005	0.0016 (J)		
1/17/2019	<0.01	<0.005			0.0029 (J)	0.0031 (J)
3/26/2019			<0.005	0.0022 (J)	0.0074 (J)	0.0033 (J)
3/27/2019	0.01 (J)	<0.005				
8/27/2019	<0.01	<0.005	<0.005	0.0035 (J)	0.0092 (J)	
8/28/2019						0.004 (J)
10/8/2019	<0.01		<0.005	0.0026 (J)	0.014	0.0023 (J)
10/9/2019		<0.005				

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Selenium (mg/L) Analysis Run 12/12/2024 2:01 PM

Grumman Road Landfill Client: Southern Company Data: Grumman Road Landfill

	GWC-11	GWC-12	GWC-13	GWC-14	GWC-15	GWC-16
4/7/2020	0.0021 (J)	<0.005		0.005 (J)	0.0029 (J)	<0.005
4/8/2020			<0.005			
8/17/2020		<0.005	<0.005			
8/18/2020	0.0028 (J)			0.0029 (J)	0.0022 (J)	0.0058 (J)
9/28/2020			<0.005			
9/29/2020	0.0024 (J)	<0.005		0.0051 (J)		
9/30/2020					<0.005	0.0037 (J)
3/10/2021	0.0044 (J)	0.003 (J)				
3/12/2021					0.0064	
3/15/2021			<0.005			
3/16/2021				0.0034 (J)		0.0044 (J)
9/21/2021	0.0038 (J)	<0.005	<0.005			
9/22/2021				0.0034 (J)		0.0031 (J)
9/23/2021					0.0016 (J)	
2/1/2022						0.0024 (J)
2/2/2022				0.0038 (J)		
2/3/2022	0.019	<0.005	<0.005		0.0031 (J)	
8/30/2022		<0.005		0.00544		
8/31/2022	0.00344 (J)		<0.005		0.00192 (J)	
9/1/2022						0.00334 (J)
2/1/2023	0.00333 (J)	<0.005	<0.005			<0.005
2/2/2023				0.0035 (J)	<0.005	
8/29/2023			<0.005			
9/6/2023	0.0036 (J)	<0.005		0.00516		0.00161 (J)
9/7/2023					<0.005	
1/24/2024	0.00303 (J)				0.0028 (J)	
1/25/2024		<0.005	<0.005	0.00311 (J)		0.00185 (J)
8/21/2024	0.00627	<0.005	<0.005	0.00337 (J)	0.00314 (J)	0.00313 (J)

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Selenium (mg/L) Analysis Run 12/12/2024 2:01 PM

Grumman Road Landfill Client: Southern Company Data: Grumman Road Landfill

	GWC-17	GWC-2	GWC-20	GWC-21	GWC-22	GWC-9
9/29/2000	<0.005					<0.005
11/21/2000	<0.005	<0.005				<0.005
1/20/2001	<0.005	<0.005				<0.005
3/14/2001	<0.005	<0.005				<0.005
7/16/2001	<0.005	<0.005				<0.005
11/1/2001	<0.005	<0.005				<0.005
4/25/2002	<0.005	<0.005				<0.005
11/20/2002	<0.005	<0.005				<0.005
6/6/2003	<0.005	<0.005				<0.005
12/12/2003	<0.005	<0.005				<0.005
5/26/2004	<0.005	0.005				<0.005
12/7/2004	<0.005	<0.005				<0.005
6/21/2005	<0.005	<0.005				0.0062
12/12/2005	<0.005	<0.005				<0.005
6/27/2006	<0.005	<0.005				<0.005
12/4/2006	<0.005	<0.005				<0.005
6/23/2007	<0.005	<0.005				<0.005
12/11/2007	<0.005	<0.005				<0.005
6/23/2008						<0.005
6/24/2008	<0.005	<0.005				
12/4/2008		<0.005				<0.005
12/5/2008	<0.005					
7/8/2009	<0.005	<0.005				<0.005
12/20/2009		<0.005				
12/21/2009	<0.005					<0.005
6/20/2010		<0.005				<0.005
6/21/2010	<0.005		<0.005	0.048	<0.005	
1/6/2011		<0.005				
1/7/2011	<0.005		<0.005	0.014	<0.005	<0.005
7/7/2011			<0.005			
7/8/2011	<0.005		<0.005	0.018	<0.005	<0.005
1/17/2012		<0.005				
1/18/2012	<0.005		<0.005	<0.013	<0.005	<0.005
7/9/2012		<0.005				
7/10/2012	<0.005		<0.005	0.02	<0.005	<0.005
1/17/2013		<0.005				
1/18/2013	<0.005		0.005	0.015	<0.005	<0.005
7/17/2013	<0.005	<0.005	<0.005	0.037	<0.005	<0.005
1/13/2014		<0.005				
1/14/2014	<0.005		<0.005	0.043	<0.005	<0.005
7/9/2014	<0.005	<0.005		0.023		<0.005
7/10/2014			<0.005		<0.005	
1/12/2015			<0.005			
1/13/2015		<0.005				
1/14/2015	<0.005			0.022	<0.005	<0.005
7/16/2015		<0.005				
7/17/2015				0.033		<0.005
7/18/2015	<0.005		<0.005		<0.005	
1/17/2016		<0.005	<0.005	0.021		
1/18/2016	<0.005				<0.005	<0.005
7/27/2016		0.002 (J)				
7/28/2016			<0.005	0.0341		<0.005

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Selenium (mg/L) Analysis Run 12/12/2024 2:01 PM

Grumman Road Landfill Client: Southern Company Data: Grumman Road Landfill

	GWC-17	GWC-2	GWC-20	GWC-21	GWC-22	GWC-9
7/29/2016	0.0011 (J)				0.0022 (J)	
8/31/2016		<0.005			0.0014 (J)	<0.005
9/1/2016	0.0012 (J)		<0.005	0.0297		
10/25/2016			0.0014 (J)	0.0095 (J)		
10/26/2016	0.0013 (J)	0.0035 (J)			0.001 (J)	
10/27/2016						<0.005
1/4/2017			0.0014 (J)	0.022	<0.005	
1/5/2017	0.0012 (J)	<0.005				
1/6/2017						<0.005
4/4/2017		<0.005	<0.005	0.0236		
4/5/2017	<0.005					
4/6/2017					<0.005	<0.005
7/11/2017			<0.005		<0.005	
7/12/2017						<0.005
7/13/2017	0.0018 (J)	<0.005		0.013		
10/2/2017			<0.005			
10/3/2017		<0.005		0.01 (J)		
10/4/2017	0.0042 (J)				0.0023 (J)	<0.005
1/9/2018				0.0162		
1/10/2018		<0.005	<0.005			
1/11/2018	<0.005				<0.005	<0.005
7/9/2018			<0.005			
7/10/2018		<0.005		0.016		
7/11/2018	0.0016 (J)				<0.005	<0.005
1/16/2019	<0.005					
1/17/2019				0.011		
1/18/2019					<0.005	<0.005
1/21/2019		<0.005	0.0014 (J)			
3/25/2019			<0.005			
3/26/2019	<0.005			0.022		
3/27/2019					<0.005	<0.005
7/30/2019		<0.005				
8/27/2019		<0.005			<0.005	
8/28/2019	<0.005		0.0014 (J)	0.019		<0.005
10/8/2019				0.019		
10/9/2019	<0.005	<0.005	<0.005		<0.005	<0.005
4/7/2020				0.012	<0.005	
4/8/2020	<0.005	<0.005	0.0013 (J)			<0.005
8/18/2020	0.002 (J)	<0.005	<0.005	0.013	<0.005	
8/19/2020						<0.005
9/29/2020		<0.005				
9/30/2020	<0.005		<0.005	0.0061 (J)	<0.005	
10/1/2020						<0.005
3/10/2021					<0.005	<0.005
3/11/2021	0.0016 (J)					
3/12/2021			<0.005			
3/15/2021		<0.005				
3/16/2021				0.0055		
9/21/2021					<0.005	
9/22/2021	<0.005	<0.005	0.0024 (J)	0.0027 (J)		<0.005
2/1/2022	<0.005		<0.005	0.0054		
2/2/2022		<0.005				<0.005

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Selenium (mg/L) Analysis Run 12/12/2024 2:02 PM

Grumman Road Landfill Client: Southern Company Data: Grumman Road Landfill

	GWC-17	GWC-2	GWC-20	GWC-21	GWC-22	GWC-9
2/3/2022					<0.005	
8/30/2022			0.00192 (J)	0.00648		
8/31/2022	<0.005				<0.005	
9/1/2022		<0.005				<0.005
2/1/2023	<0.005		<0.005			<0.005
2/2/2023		<0.005		0.00542	<0.005	
8/29/2023	<0.005	<0.005			<0.005	<0.005
9/6/2023			<0.005	0.00554		
1/23/2024					<0.005	
1/24/2024	<0.005		0.00455 (J)			<0.005
1/25/2024		<0.005		0.00452 (J)		
8/21/2024	<0.005	<0.005	0.00209 (J)		<0.005	<0.005
8/22/2024				0.00594		

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Selenium (mg/L) Analysis Run 12/12/2024 2:02 PM

Grumman Road Landfill Client: Southern Company Data: Grumman Road Landfill

	MW-23D	MW-24D	MW-25D	MW-26D
3/11/2021	<0.005	<0.005	<0.005	<0.005
9/21/2021				<0.005
9/22/2021	<0.005	<0.005		
9/23/2021			<0.005	
2/1/2022		<0.005		
2/2/2022				<0.005
2/3/2022	<0.005		<0.005	
8/31/2022	<0.005		<0.005	
9/1/2022		<0.005		
2/1/2023	<0.005			
2/2/2023		<0.005	<0.005	
9/6/2023	<0.005	<0.005		
9/7/2023			<0.005	
1/24/2024	<0.005			
1/25/2024		<0.005	<0.005	<0.005
8/20/2024				<0.005
8/21/2024	<0.005	<0.005	<0.005	

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Sulfate (mg/L) Analysis Run 12/12/2024 2:02 PM

Grumman Road Landfill Client: Southern Company Data: Grumman Road Landfill

	GWA-7 (bg)	GWA-8 (bg)	GWB-4R	GWB-5R	GWB-6R	GWC-1
8/30/2016		140		100	120	87
9/1/2016	73		210			
10/24/2016		160				
10/25/2016	26					83
10/26/2016			230	130	120	
1/3/2017		140		120		
1/4/2017						99
1/5/2017					130	
1/6/2017	23		220			
4/3/2017		140				
4/4/2017			230			110
4/6/2017	25			140	150	
7/11/2017		130				
7/12/2017			210	140	140	100
7/13/2017	65					
10/2/2017		150				
10/3/2017				130	140	63
10/4/2017	13		290			
1/9/2018	45	120			140	
1/10/2018				110		86
1/11/2018			210			
7/9/2018		123				
7/10/2018				48.1	128	77.7
7/11/2018	37.7		177			
1/16/2019	24.5	129	244	184	402	71.2
3/25/2019	14.7	152	245			
3/26/2019				222	319	73.8
10/7/2019		156				
10/8/2019	32.8					
10/9/2019			38.5	90.8	255	76.3
4/6/2020	20.3	123				
4/7/2020			221	180	180	83
9/28/2020	20	93.6				71.6
9/30/2020				339	339	
10/1/2020			178			
3/10/2021			160	572	1160	61.2
3/11/2021	12					
3/12/2021		103				
9/21/2021	11.1	96.5	232	829	645	
9/23/2021						37.3
1/31/2022	15	89.7				
2/2/2022			338		1460	
2/3/2022				797		49.2
8/30/2022	10.6	77.4	379	403	978	
9/1/2022						44
1/31/2023	7.88	79.3				
2/1/2023				190	842	
2/2/2023			337			35.3
8/28/2023	6.57	62.9				
8/29/2023			551	299	763	64.7
1/23/2024	5.11	78.2			678	54.4
1/24/2024				75.2		

Time Series

Constituent: Sulfate (mg/L) Analysis Run 12/12/2024 2:02 PM

Grumman Road Landfill Client: Southern Company Data: Grumman Road Landfill

	GWA-7 (bg)	GWA-8 (bg)	GWB-4R	GWB-5R	GWB-6R	GWC-1
1/25/2024			744			
8/19/2024	2.76					
8/20/2024			772		734	54
8/21/2024		107		289		

Time Series

Constituent: Sulfate (mg/L) Analysis Run 12/12/2024 2:02 PM

Grumman Road Landfill Client: Southern Company Data: Grumman Road Landfill

	GWC-11	GWC-12	GWC-13	GWC-14	GWC-15	GWC-16
8/31/2016	64	1100	43			
9/1/2016				730	120	430
10/25/2016				420	100	360
10/26/2016	56	900	29			
1/4/2017	65	880				360
1/5/2017			32	430	140	
4/3/2017					150	
4/4/2017				600		
4/5/2017		990				440
4/6/2017	110		49			
7/10/2017		480				
7/11/2017	49			400	110	
7/12/2017			16			490
10/2/2017				470	56	
10/3/2017	140					780
10/4/2017		760	33			
1/9/2018				440	84	
1/10/2018			22			470
1/11/2018	270	780				
7/9/2018				369		
7/10/2018					43	787
7/11/2018	211	598	17.8			
1/16/2019			20.2	291		
1/17/2019	50.3	454			45.2	780
3/26/2019			33.6	192	54	87.9
3/27/2019	76.8	579				
10/8/2019	310		22	428	45.8	872
10/9/2019		392				
4/7/2020	446	297		456	26.9	844
4/8/2020			30.7			
9/28/2020			25.6			
9/29/2020	516	237		93.5		
9/30/2020					18.5	736
3/10/2021	687	282				
3/12/2021					21.1	
3/15/2021			30.6			
3/16/2021				92		821
9/21/2021	433	315	36.6			
9/22/2021				444		1040
9/23/2021					124	
2/1/2022						1010
2/2/2022				589		
2/3/2022	347	333	32.1		102	
8/30/2022		415		410		
8/31/2022	653		29		88.5	
9/1/2022						1140
2/1/2023	1090	527	34.5			1160
2/2/2023				220	34.3	
8/29/2023			47.5			
9/6/2023	827	437		185		1250
9/7/2023					46.8	
1/24/2024	593				49.7	

Time Series

Constituent: Sulfate (mg/L) Analysis Run 12/12/2024 2:02 PM

Grumman Road Landfill Client: Southern Company Data: Grumman Road Landfill

	GWC-11	GWC-12	GWC-13	GWC-14	GWC-15	GWC-16
1/25/2024		394	43.7	167		1130
8/21/2024	404	602	44.4	71.5	34.2	1370

Time Series

Constituent: Sulfate (mg/L) Analysis Run 12/12/2024 2:02 PM

Grumman Road Landfill Client: Southern Company Data: Grumman Road Landfill

	GWC-17	GWC-2	GWC-20	GWC-21	GWC-22	GWC-9
8/31/2016		21			700	84
9/1/2016	310		180	36		
10/25/2016			79	16		
10/26/2016	280	100			850	
10/27/2016						76
1/4/2017			170	45	680	
1/5/2017	310	22				
1/6/2017						66
4/4/2017		29	300	46		
4/5/2017	460					
4/6/2017					220	79
7/11/2017			400		210	
7/12/2017						75
7/13/2017	490	20		33		
10/2/2017			390			
10/3/2017		20		34		
10/4/2017	1100				730	78
1/9/2018				29		
1/10/2018		9.5	99			
1/11/2018	810				180	110
7/9/2018			99.2			
7/10/2018		8.5		33.2		
7/11/2018	902				381	87.4
1/16/2019	422					
1/17/2019				24.1		
1/18/2019					107	56.9
1/21/2019		10.2	35.5			
3/25/2019			95.6			
3/26/2019	439			83.9		
3/27/2019					103	76.2
7/30/2019		12.3				
10/8/2019				85.6		
10/9/2019	346	10.1	58.5		80.2	41.1
4/7/2020				33.2	333	
4/8/2020	239	12.9	428			34.2
9/29/2020		8.6				
9/30/2020	193		956	306	65.5	
10/1/2020						35
3/10/2021					101	38.7
3/11/2021	244					
3/12/2021			933			
3/15/2021		10				
3/16/2021				343		
9/21/2021					52.4	
9/22/2021	394	10.3	905	14.6		42.7
2/1/2022	416		862	374		
2/2/2022		9				31.5
2/3/2022					46.2	
8/30/2022			606	451		
8/31/2022	721				45.3	
9/1/2022		10.3				28.7
2/1/2023	547		596			25.2

Time Series

Constituent: Sulfate (mg/L) Analysis Run 12/12/2024 2:02 PM

Grumman Road Landfill Client: Southern Company Data: Grumman Road Landfill

	GWC-17	GWC-2	GWC-20	GWC-21	GWC-22	GWC-9
2/2/2023		11.9		447	71.6	
8/29/2023	444	10.5			1010	15.7
9/6/2023			460	470		
1/23/2024					44.9	
1/24/2024	389		140			15.3
1/25/2024		10.9		499		
8/21/2024	453	11.6	688		41.8	24.1
8/22/2024				291		

Time Series

Constituent: Sulfate (mg/L) Analysis Run 12/12/2024 2:02 PM

Grumman Road Landfill Client: Southern Company Data: Grumman Road Landfill

	MW-23D	MW-24D	MW-25D	MW-26D
1/20/2021			1.6	1
1/21/2021	5	0.79 (J)		
3/11/2021	62.4	<0.4	0.52 (J)	<1
9/21/2021				<1
9/22/2021	84.6	<0.4		
9/23/2021			0.7 (J)	
2/1/2022		<0.4		
2/2/2022				<1
2/3/2022	64.8		<0.4	
8/31/2022	54.6		1.12	
9/1/2022		0.682		
2/1/2023	40.3			
2/2/2023		<0.4	<0.4	
9/6/2023	37.5	0.176 (J)		
9/7/2023			<0.4	
1/24/2024	26.4			
1/25/2024		<0.4	0.374 (J)	0.977
8/20/2024				0.299 (J)
8/21/2024	34.2	<0.4	<0.4	

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Thallium (mg/L) Analysis Run 12/12/2024 2:02 PM

Grumman Road Landfill Client: Southern Company Data: Grumman Road Landfill

	GWA-7 (bg)	GWA-8 (bg)	GWB-4R	GWB-5R	GWB-6R	GWC-1
9/29/2000	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002
11/21/2000	<0.002		<0.002	<0.002	<0.002	<0.002
1/20/2001	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002
3/14/2001	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002
7/16/2001	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002
11/1/2001	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002
4/25/2002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002
12/12/2003	<0.002	<0.002	<0.002	<0.002	<0.002	0.002
5/26/2004	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002
12/7/2004	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002
6/21/2005	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002
12/12/2005	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002
4/4/2006		<0.002				
6/27/2006	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002
8/30/2006		<0.002				
12/4/2006	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002
2/15/2007		<0.002				
6/23/2007	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002
8/30/2016		<0.002		<0.002	<0.002	<0.002
9/1/2016	0.0005 (J)		<0.002			
10/24/2016		<0.002				
10/25/2016	<0.002					<0.002
10/26/2016			<0.002	<0.002	<0.002	
1/3/2017		<0.002		<0.002		
1/4/2017						<0.002
1/5/2017					<0.002	
1/6/2017	<0.002		<0.002			
4/3/2017		<0.002				
4/4/2017			7E-05 (J)			5E-05 (J)
4/6/2017	<0.002			<0.002	<0.002	
7/11/2017		5E-05 (J)				
7/12/2017			<0.002	<0.002	<0.002	<0.002
7/13/2017	<0.002					
10/2/2017		6E-05 (J)				
10/3/2017				<0.002	<0.002	<0.002
10/4/2017	<0.002		<0.002			
1/9/2018	<0.002	<0.002			<0.002	
1/10/2018				<0.002		<0.002
1/11/2018			7E-05 (J)			
7/9/2018		<0.002				
7/10/2018				<0.002	<0.002	<0.002
7/11/2018	<0.002		<0.002			
8/26/2019	<0.002	<0.002				
8/27/2019			<0.002		<0.002	<0.002
8/28/2019				5.7E-05 (J)		
10/7/2019		6.2E-05 (J)				
10/8/2019	<0.002					
10/9/2019			<0.002	0.00031 (J)	<0.002	5.4E-05 (J)
4/6/2020	<0.002	<0.002				
4/7/2020			<0.002	<0.002	<0.002	5.4E-05 (J)
8/17/2020		<0.002				
8/19/2020	<0.002		<0.002	<0.002	<0.002	<0.002

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Thallium (mg/L) Analysis Run 12/12/2024 2:02 PM

Grumman Road Landfill Client: Southern Company Data: Grumman Road Landfill

	GWA-7 (bg)	GWA-8 (bg)	GWB-4R	GWB-5R	GWB-6R	GWC-1
9/28/2020	<0.002	<0.002				<0.002
9/30/2020				<0.002	<0.002	
10/1/2020			<0.002			
3/10/2021			<0.002	<0.002	<0.002	<0.002
3/11/2021	<0.002					
3/12/2021		<0.002				
9/21/2021	<0.002	<0.002	<0.002	<0.002	<0.002	
9/23/2021						<0.002
1/31/2022	<0.002	<0.002				
2/2/2022			<0.002		<0.002	
2/3/2022				<0.002		<0.002
8/30/2022	<0.002	<0.002	<0.002	<0.002	<0.002	
9/1/2022						<0.002
1/31/2023	<0.002	<0.002				
2/1/2023				<0.002	<0.002	
2/2/2023			<0.002			<0.002
8/28/2023	<0.002	<0.002				
8/29/2023			<0.002	<0.002	<0.002	<0.002
1/23/2024	<0.002	<0.002			<0.002	<0.002
2/7/2024			<0.002			
2/8/2024				<0.002		
8/19/2024	<0.002					
8/20/2024			<0.002		<0.002	<0.002
8/21/2024		<0.002		<0.002		

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Thallium (mg/L) Analysis Run 12/12/2024 2:02 PM

Grumman Road Landfill Client: Southern Company Data: Grumman Road Landfill

	GWC-11	GWC-12	GWC-13	GWC-14	GWC-15	GWC-16
9/29/2000	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002
11/21/2000	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002
1/20/2001	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002
3/14/2001	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002
7/16/2001	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002
11/1/2001	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002
4/25/2002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002
12/12/2003	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002
5/26/2004	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002
12/7/2004	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002
6/21/2005	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002
12/12/2005	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002
4/4/2006				<0.002		<0.002
6/27/2006	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002
8/30/2006				<0.002		<0.002
12/4/2006	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002
2/15/2007				<0.002		<0.002
6/23/2007	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002
8/31/2016	<0.002	<0.002	<0.002			
9/1/2016				<0.002	<0.002	<0.002
10/25/2016				<0.002	<0.002	<0.002
10/26/2016	<0.002	0.0003 (J)	<0.002			
1/4/2017	<0.002	<0.002				<0.002
1/5/2017			<0.002	<0.002	<0.002	
4/3/2017					<0.002	
4/4/2017				7E-05 (J)		
4/5/2017		0.0002 (J)				6E-05 (J)
4/6/2017	6E-05 (J)		<0.002			
7/10/2017		0.0002 (J)				
7/11/2017	<0.002			6E-05 (J)	<0.002	
7/12/2017			<0.002			<0.002
10/2/2017				<0.002	<0.002	
10/3/2017	7E-05 (J)					<0.002
10/4/2017		0.0002 (J)	<0.002			
1/9/2018				<0.002	<0.002	
1/10/2018			<0.002			5E-05 (J)
1/11/2018	0.0001 (J)	0.0002 (J)				
7/9/2018				<0.002		
7/10/2018					<0.002	<0.002
7/11/2018	<0.002	<0.002	<0.002			
8/27/2019	<0.002	0.00011 (J)	<0.002	<0.002	<0.002	
8/28/2019						<0.002
10/8/2019	9.8E-05 (J)		<0.002	<0.002	<0.002	<0.002
10/9/2019		0.00014 (J)				
4/7/2020	0.00019 (J)	0.00013 (J)		<0.002	<0.002	<0.002
4/8/2020			<0.002			
8/17/2020		<0.002	<0.002			
8/18/2020	0.00021 (J)			<0.002	<0.002	<0.002
9/28/2020			<0.002			
9/29/2020	0.00017 (J)	<0.002		<0.002		
9/30/2020					<0.002	<0.002
3/10/2021	0.00022 (J)	<0.002				

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Thallium (mg/L) Analysis Run 12/12/2024 2:02 PM

Grumman Road Landfill Client: Southern Company Data: Grumman Road Landfill

	GWC-11	GWC-12	GWC-13	GWC-14	GWC-15	GWC-16
3/12/2021					<0.002	
3/15/2021			<0.002			
3/16/2021				<0.002		<0.002
9/21/2021	<0.002	<0.002	<0.002			
9/22/2021				<0.002		<0.002
9/23/2021					<0.002	
2/1/2022						<0.002
2/2/2022				<0.002		
2/3/2022	<0.002	<0.002	<0.002		<0.002	
8/30/2022		<0.002		<0.002		
8/31/2022	<0.002		<0.002		<0.002	
9/1/2022						<0.002
2/1/2023	<0.002	<0.002	<0.002			<0.002
2/2/2023				<0.002	<0.002	
8/29/2023			<0.002			
9/6/2023	<0.002	<0.002		<0.002		<0.002
9/7/2023					<0.002	
1/24/2024	<0.002				<0.002	
1/25/2024		<0.002	<0.002	<0.002		<0.002
8/21/2024	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Thallium (mg/L) Analysis Run 12/12/2024 2:02 PM

Grumman Road Landfill Client: Southern Company Data: Grumman Road Landfill

	GWC-17	GWC-2	GWC-20	GWC-21	GWC-22	GWC-9
9/29/2000	<0.002					<0.002
11/21/2000	<0.002	<0.002				<0.002
1/20/2001	<0.002	<0.002				<0.002
3/14/2001	<0.002	<0.002				<0.002
7/16/2001	<0.002	<0.002				<0.002
11/1/2001	<0.002	<0.002				<0.002
4/25/2002	<0.002	<0.002				<0.002
12/12/2003	<0.002	<0.002				<0.002
5/26/2004	<0.002	<0.002				<0.002
12/7/2004	<0.002	<0.002				<0.002
6/21/2005	<0.002	<0.002				<0.002
12/12/2005	<0.002	<0.002				<0.002
6/27/2006	<0.002	<0.002				<0.002
12/4/2006	<0.002	<0.002				<0.002
6/23/2007	<0.002	<0.002				<0.002
8/31/2016		<0.002			<0.002	<0.002
9/1/2016	<0.002		<0.002	<0.002		
10/25/2016			<0.002	<0.002		
10/26/2016	<0.002	<0.002			<0.002	
10/27/2016						<0.002
1/4/2017			<0.002	<0.002	<0.002	
1/5/2017	<0.002	<0.002				
1/6/2017						<0.002
4/4/2017		<0.002	<0.002	5E-05 (J)		
4/5/2017	0.0001 (J)					
4/6/2017					<0.002	<0.002
7/11/2017			<0.002		<0.002	
7/12/2017						<0.002
7/13/2017	<0.002	<0.002		<0.002		
10/2/2017			<0.002			
10/3/2017		<0.002		<0.002		
10/4/2017	0.0001 (J)				0.0001 (J)	<0.002
1/9/2018				<0.002		
1/10/2018		<0.002	<0.002			
1/11/2018	0.0001 (J)				6E-05 (J)	<0.002
7/9/2018			<0.002			
7/10/2018		<0.002		<0.002		
7/11/2018	<0.002				<0.002	<0.002
7/30/2019		0.00011 (J)				
8/27/2019		<0.002			8.6E-05 (J)	
8/28/2019	6.6E-05 (J)		<0.002	<0.002		<0.002
10/8/2019				<0.002		
10/9/2019	7.6E-05 (J)	<0.002	<0.002		<0.002	<0.002
4/7/2020				<0.002	6.5E-05 (J)	
4/8/2020	5.6E-05 (J)	<0.002	<0.002			<0.002
8/18/2020	<0.002	<0.002	<0.002	<0.002	0.00017 (J)	
8/19/2020						<0.002
9/29/2020		<0.002				
9/30/2020	<0.002		<0.002	<0.002	<0.002	
10/1/2020						<0.002
3/10/2021					<0.002	<0.002
3/11/2021	<0.002					

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Thallium (mg/L) Analysis Run 12/12/2024 2:02 PM

Grumman Road Landfill Client: Southern Company Data: Grumman Road Landfill

	GWC-17	GWC-2	GWC-20	GWC-21	GWC-22	GWC-9
3/12/2021			<0.002			
3/15/2021		<0.002				
3/16/2021				<0.002		
9/21/2021					<0.002	
9/22/2021	<0.002	<0.002	<0.002	<0.002		<0.002
2/1/2022	<0.002		<0.002	<0.002		
2/2/2022		<0.002				<0.002
2/3/2022					<0.002	
8/30/2022			<0.002	<0.002		
8/31/2022	<0.002				<0.002	
9/1/2022		<0.002				<0.002
2/1/2023	<0.002		<0.002			<0.002
2/2/2023		<0.002		<0.002	<0.002	
8/29/2023	<0.002	<0.002			<0.002	<0.002
9/6/2023			<0.002	<0.002		
1/23/2024					<0.002	
1/24/2024	<0.002		<0.002			<0.002
1/25/2024		<0.002		<0.002		
8/21/2024	<0.002	<0.002	<0.002		<0.002	<0.002
8/22/2024				<0.002		

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Thallium (mg/L) Analysis Run 12/12/2024 2:02 PM

Grumman Road Landfill Client: Southern Company Data: Grumman Road Landfill

	MW-23D	MW-24D	MW-25D	MW-26D
3/11/2021	<0.002	<0.002	<0.002	<0.002
9/21/2021				<0.002
9/22/2021	<0.002	<0.002		
9/23/2021			<0.002	
2/1/2022		<0.002		
2/2/2022				<0.002
2/3/2022	<0.002		<0.002	
8/31/2022	<0.002		<0.002	
9/1/2022		<0.002		
2/1/2023	<0.002			
2/2/2023		<0.002	<0.002	
9/6/2023	<0.002	<0.002		
9/7/2023			<0.002	
1/24/2024	<0.002			
1/25/2024		<0.002	<0.002	<0.002
8/20/2024				<0.002
8/21/2024	<0.002	<0.002	<0.002	

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Total Dissolved Solids (mg/L) Analysis Run 12/12/2024 2:02 PM

Grumman Road Landfill Client: Southern Company Data: Grumman Road Landfill

	GWA-7 (bg)	GWA-8 (bg)	GWB-4R	GWB-5R	GWB-6R	GWC-1
8/30/2016		234		224	365	225
9/1/2016	3660 (o)		1080			
10/24/2016		216				
10/25/2016	3560 (o)					230
10/26/2016			1050	297	373	
1/3/2017		333		366		
1/4/2017						349
1/5/2017					543	
1/6/2017	3490 (o)		1060			
4/3/2017		288				
4/4/2017			994			356
4/6/2017	3170 (o)			279	434	
7/11/2017		188				
7/12/2017			1070	308	454	357
7/13/2017	2280					
10/2/2017		210				
10/3/2017				288	389	192
10/4/2017	3350 (o)		1100			
1/9/2018	2640	118			415	
1/10/2018				493		277
1/11/2018			838			
7/9/2018		235				
7/10/2018				1730	453	349
7/11/2018	2200		799			
1/16/2019	2100	219	530	382	1320	341
3/25/2019	2100	240	479			
3/26/2019				1040	1250	317
10/7/2019		275				
10/8/2019	1840					
10/9/2019			502	2010	903	338
4/6/2020	1670	214				
4/7/2020			482	483	775	195
9/28/2020	1450	175				373
9/30/2020				652	816	
10/1/2020			424			
3/10/2021			434	1040	2120	329
3/11/2021	1220					
3/12/2021		163				
9/21/2021	1210	145	476	1240	985	
9/23/2021						360
1/31/2022	1260	153				
2/2/2022			654		2440	
2/3/2022				1240		315
8/30/2022	1340	154	882	886	1810	
9/1/2022						228
1/31/2023	1230	122				
2/1/2023				1240	1570	
2/2/2023			1180			166
8/28/2023	1450	138				
8/29/2023			1290	644	1320	272
1/23/2024	1580	158			1310	263
1/24/2024				2650		

Time Series

Constituent: Total Dissolved Solids (mg/L) Analysis Run 12/12/2024 2:02 PM

Grumman Road Landfill Client: Southern Company Data: Grumman Road Landfill

	GWA-7 (bg)	GWA-8 (bg)	GWB-4R	GWB-5R	GWB-6R	GWC-1
1/25/2024			2010			
8/19/2024	1540					
8/20/2024			1970		1190	217
8/21/2024		165		1160		

Time Series

Constituent: Total Dissolved Solids (mg/L) Analysis Run 12/12/2024 2:02 PM

Grumman Road Landfill Client: Southern Company Data: Grumman Road Landfill

	GWC-11	GWC-12	GWC-13	GWC-14	GWC-15	GWC-16
8/31/2016	119	1560	77			
9/1/2016				1170	539	878
10/25/2016				633	449	585
10/26/2016	108	1520	<10			
1/4/2017	182	1430				783
1/5/2017			146	781	565	
4/3/2017					632	
4/4/2017				916		
4/5/2017		1200				722
4/6/2017	248		23 (J)			
7/10/2017		1100				
7/11/2017	88			675	569	
7/12/2017			39			962
10/2/2017				689	559	
10/3/2017	248					1240
10/4/2017		986	38			
1/9/2018				653	520	
1/10/2018			<10			935
1/11/2018	681	1020				
7/9/2018				659		
7/10/2018					524	1040
7/11/2018	440	888	63			
1/16/2019			44	656		
1/17/2019	118	765			518 (D)	1320
3/26/2019			72	496	541	1380
3/27/2019	138	673				
10/8/2019	613		51	841	526	1500
10/9/2019		647				
4/7/2020	780	464		843	428	1500
4/8/2020			65			
9/28/2020			60			
9/29/2020	1100	440		187		
9/30/2020					434	1140
3/10/2021	1240	566				
3/12/2021					353	
3/15/2021			<10			
3/16/2021				137		980
9/21/2021	842	558	83			
9/22/2021				864		1680
9/23/2021					556	
2/1/2022						1990
2/2/2022				1130		
2/3/2022	538	566	72		516	
8/30/2022		713		720		
8/31/2022	1240		55		530	
9/1/2022						1720
2/1/2023	2010	694	37			2010
2/2/2023				566	440	
8/29/2023			62			
9/6/2023	1330	686		594		1980
9/7/2023					471	
1/24/2024	1170				497	

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Total Dissolved Solids (mg/L) Analysis Run 12/12/2024 2:02 PM

Grumman Road Landfill Client: Southern Company Data: Grumman Road Landfill

	GWC-11	GWC-12	GWC-13	GWC-14	GWC-15	GWC-16
1/25/2024		733	75	446		1860
8/21/2024	510	817	77	239	464	2100

Time Series

Constituent: Total Dissolved Solids (mg/L) Analysis Run 12/12/2024 2:02 PM

Grumman Road Landfill Client: Southern Company Data: Grumman Road Landfill

	GWC-17	GWC-2	GWC-20	GWC-21	GWC-22	GWC-9
8/31/2016		39			1570	173
9/1/2016	1270		470	184		
10/25/2016			289	<25		
10/26/2016	1320	135			1840	
10/27/2016						221
1/4/2017			639	242	1560	
1/5/2017	1770	99				
1/6/2017						259
4/4/2017		54	660	187		
4/5/2017	1600					
4/6/2017					368	169
7/11/2017			836		383	
7/12/2017						163
7/13/2017	1940	50		86		
10/2/2017			698			
10/3/2017		18 (J)		66		
10/4/2017	2370				1500	168
1/9/2018				167		
1/10/2018		<10	322			
1/11/2018	2350				438	190
7/9/2018			461			
7/10/2018		49		180		
7/11/2018	2260				876	165
1/16/2019	1540					
1/17/2019				178		
1/18/2019					154	118
1/21/2019		39	307			
3/25/2019			449			
3/26/2019	1220			292		
3/27/2019					158	104
7/30/2019		70				
10/8/2019				278		
10/9/2019	1100	46	434		211	128
4/7/2020				106	819	
4/8/2020	881	38	986			80
9/29/2020		33				
9/30/2020	752		1860	634	113	
10/1/2020						111
3/10/2021					210	89
3/11/2021	705					
3/12/2021			1730			
3/15/2021		11				
3/16/2021				454		
9/21/2021					87	
9/22/2021	1530	33	1430	51		94
2/1/2022	1580		1580	783		
2/2/2022		43				96
2/3/2022					89	
8/30/2022			1210	807		
8/31/2022	2050				163	
9/1/2022		9 (J)				85
2/1/2023	1470		2290			59

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Total Dissolved Solids (mg/L) Analysis Run 12/12/2024 2:02 PM

Grumman Road Landfill Client: Southern Company Data: Grumman Road Landfill

	GWC-17	GWC-2	GWC-20	GWC-21	GWC-22	GWC-9
2/2/2023		<10		775	113	
8/29/2023	1270	9 (J)			2300	70
9/6/2023			924	826		
1/23/2024					88	
1/24/2024	1400		597			86
1/25/2024		17		921		
8/21/2024	1120	25	1210		81	90
8/22/2024				517		

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Total Dissolved Solids (mg/L) Analysis Run 12/12/2024 2:02 PM

Grumman Road Landfill Client: Southern Company Data: Grumman Road Landfill

	MW-23D	MW-24D	MW-25D	MW-26D
1/20/2021			58	54
1/21/2021	41	50		
3/11/2021	149	53	57	41
9/21/2021				37
9/22/2021	184	53		
9/23/2021			56	
2/1/2022		75		
2/2/2022				54
2/3/2022	156		58	
8/31/2022	143		44	
9/1/2022		20		
2/1/2023	103			
2/2/2023		21	23	
9/6/2023	103	20		
9/7/2023			23	
1/24/2024	92			
1/25/2024		28	26	33
8/20/2024				27
8/21/2024	100	46	53	

Time Series

Constituent: Vanadium (mg/L) Analysis Run 12/12/2024 2:02 PM

Grumman Road Landfill Client: Southern Company Data: Grumman Road Landfill

	GWA-7 (bg)	GWA-8 (bg)	GWB-4R	GWB-5R	GWB-6R	GWC-1
9/29/2000	<0.0025	<0.02	0.06	0.038	0.12	<0.02
11/21/2000	<0.0025		0.068	0.013	0.13	<0.02
1/20/2001	<0.0025	<0.02	0.12	0.038	0.14	<0.02
3/14/2001	<0.0025	<0.02	0.08	0.077	0.13	<0.02
7/16/2001	<0.0025	<0.02	0.11	0.12 (O)	0.18	<0.02
11/1/2001	<0.0025	<0.02	0.079	0.21 (O)	0.12	<0.02
4/25/2002	<0.0025	<0.02	0.11	0.086	0.15	<0.02
11/20/2002		<0.02	0.15	0.14 (O)	0.15	0.0069
6/6/2003	0.047	0.017	0.12	0.12 (O)	0.11	0.16 (O)
12/12/2003	0.0086	0.011	0.13	0.014	0.089	<0.02
5/26/2004	<0.0025	<0.02	0.095	0.06	0.09	<0.02
12/7/2004	<0.0025	<0.02	0.067	0.054	0.072	<0.02
6/21/2005	<0.0025	<0.02	0.062	0.038	0.04	<0.02
12/12/2005	<0.0025	<0.02	0.09	0.0056	0.021	<0.02
4/4/2006		<0.02				
6/27/2006	<0.0025	<0.02	0.083	0.0043	0.02	0.0029
8/30/2006		<0.02				
12/4/2006	0.0027	<0.02	0.084	0.0044	0.022	0.0047
2/15/2007		<0.02				
6/23/2007	0.0027	<0.02	0.081	0.0039	0.027	0.0029
9/11/2007		<0.02				
12/11/2007	0.0033	<0.02	0.067	0.0029	0.017	<0.02
3/11/2008		<0.02				
6/23/2008	0.0074	<0.02				
6/24/2008			0.059	0.003	0.053	<0.02
11/3/2008		<0.02				
12/4/2008	0.0084	<0.02				
12/5/2008			0.054	<0.01	0.0078	<0.02
3/25/2009		<0.02				
7/7/2009	0.023	<0.02	0.038	<0.01	0.012	<0.02
9/14/2009		<0.02				
12/20/2009	0.007	<0.02				<0.02
12/21/2009			0.06	<0.01	0.011	
3/4/2010		<0.02				
6/20/2010	0.0047	<0.02		<0.01	0.0083	0.0037
6/21/2010			0.036			
9/14/2010		<0.02				
1/6/2011				0.0067		<0.02
1/7/2011	0.018	<0.02	0.043		0.0079	
4/15/2011		<0.02				
7/7/2011	0.019	<0.02		0.019	0.007	0.0045
7/8/2011			0.044			
9/25/2011		<0.02				
1/17/2012	0.0298	<0.02		0.021		<0.02
1/18/2012			0.045		0.0116	
4/4/2012		<0.02				
7/9/2012	0.14			0.032		0.0026
7/10/2012		<0.02	0.048		0.0096	
10/9/2012		<0.02				
1/17/2013				0.034		<0.02
1/18/2013	0.21	<0.02	0.049		<0.005	
4/5/2013		<0.02				

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Vanadium (mg/L) Analysis Run 12/12/2024 2:02 PM

Grumman Road Landfill Client: Southern Company Data: Grumman Road Landfill

	GWA-7 (bg)	GWA-8 (bg)	GWB-4R	GWB-5R	GWB-6R	GWC-1
7/16/2013				0.021		<0.02
7/17/2013	0.18	<0.02	0.05		<0.005	
10/11/2013		<0.02				
1/13/2014	0.24			0.008		<0.02
1/14/2014		<0.02	0.067		<0.005	
4/3/2014		0.0015 (J)				
7/9/2014	0.22	0.0012 (J)	0.055	0.0052	0.0039 (J)	0.0041 (J)
10/24/2014		<0.02				
1/12/2015			0.066			
1/13/2015	0.19			0.0036 (J)		0.0029 (J)
1/14/2015		<0.02			0.005	
5/10/2015		<0.02				
7/16/2015	0.23		0.045	0.004 (J)		0.0034 (J)
7/17/2015		<0.02			0.0045 (J)	
10/6/2015		0.0012 (J)				
1/17/2016						0.0046 (J)
1/18/2016	0.41 (o)	0.00079 (J)	0.049	0.0069	0.0044 (J)	
4/26/2016		<0.02				
7/27/2016	0.397 (o)			0.0046 (J)		0.0064 (J)
7/28/2016		<0.02			0.0038 (J)	
7/29/2016			0.0388			
10/24/2016		<0.02				
10/25/2016	0.425 (o)					
1/3/2017		<0.02		<0.01		
1/4/2017						<0.02
1/5/2017					0.0077 (J)	
1/6/2017	0.41 (o)		0.0341			
4/3/2017		<0.02				
4/4/2017			0.0371			0.0061 (J)
4/6/2017	0.297 (o)			0.0063 (J)	0.0069 (J)	
7/11/2017		<0.02				
7/12/2017			0.0399	0.0064 (J)	0.0098 (J)	0.0067 (J)
7/13/2017	0.194					
10/2/2017		<0.02				
10/4/2017	0.316 (o)					
1/9/2018	0.194	0.0014 (J)			0.0086 (J)	
1/10/2018				0.0077 (J)		0.0056 (J)
1/11/2018			0.0327			
7/9/2018		<0.02				
7/10/2018				0.016	0.0098 (J)	0.0056 (J)
7/11/2018	0.15		0.02			
1/16/2019	0.16	<0.02	0.0022 (J)	0.0033 (J)	0.077	0.0043 (J)
3/25/2019	0.18	<0.02	0.004 (J)			
3/26/2019				0.0058 (J)	0.086	0.0051 (J)
10/7/2019		<0.02				
10/8/2019	0.11					
10/9/2019			<0.01	0.033 (J)	0.018 (J)	<0.02
4/6/2020	0.12	<0.02				
4/7/2020			0.0037 (J)	0.0053 (J)	0.041 (J)	0.0015 (J)
9/28/2020	0.1	<0.02				0.0042 (J)
9/30/2020				0.0037 (J)	0.018	
10/1/2020			0.0047 (J)			

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Vanadium (mg/L) Analysis Run 12/12/2024 2:02 PM

Grumman Road Landfill Client: Southern Company Data: Grumman Road Landfill

	GWA-7 (bg)	GWA-8 (bg)	GWB-4R	GWB-5R	GWB-6R	GWC-1
3/10/2021			0.0054 (J)	0.0026 (J)	0.027	0.005 (J)
3/11/2021	0.14					
3/12/2021		<0.02				
9/21/2021	0.096	<0.02	0.0027 (J)	0.0039 (J)	0.015	
9/23/2021						0.0042 (J)
1/31/2022	0.1	<0.02				
2/2/2022			0.0031 (J)		0.0099 (J)	
2/3/2022				0.0046 (J)		0.0028 (J)
8/30/2022	0.11	0.00372 (J)	0.00943 (J)	0.0138 (J)	0.0192 (J)	
9/1/2022						0.00748 (J)
1/31/2023	0.106	<0.02				
2/1/2023				0.0255	0.0201	
2/2/2023			0.021			0.00497 (J)
8/28/2023	0.137	0.0148 (J)				
8/29/2023			0.0201	0.00917 (J)	0.0226	0.0146 (J)
1/23/2024	0.148	0.00564 (J)			0.022	<0.02
2/7/2024			0.0119 (J)			
2/8/2024				0.0609		
8/19/2024	0.125					
8/20/2024			0.0189 (J)		0.0155 (J)	<0.02
8/21/2024		<0.02		0.0209		

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Vanadium (mg/L) Analysis Run 12/12/2024 2:02 PM

Grumman Road Landfill Client: Southern Company Data: Grumman Road Landfill

	GWC-11	GWC-12	GWC-13	GWC-14	GWC-15	GWC-16
9/29/2000	<0.01	<0.01	<0.02	<0.01	<0.01	<0.05
11/21/2000	<0.01	<0.01	<0.02	<0.01	<0.01	<0.05
1/20/2001	<0.01	<0.01	<0.02	<0.01	<0.01	<0.05
3/14/2001	<0.01	<0.01	<0.02	<0.01	<0.01	<0.05
7/16/2001	<0.01	<0.01	<0.02	<0.01	<0.01	<0.05
11/1/2001	<0.01	<0.01	<0.02	<0.01	<0.01	<0.05
4/25/2002	<0.01	<0.01	<0.02	<0.01	<0.01	<0.05
11/20/2002	0.0071	<0.01	<0.02	0.03	0.0099	0.0069
6/6/2003	0.0098	<0.01	0.0063	0.0065	0.019	0.082
12/12/2003	0.0074	<0.01	<0.02	0.0052	0.018	0.012
5/26/2004	<0.01	<0.01	<0.02	<0.01	<0.01	<0.05
12/7/2004	<0.01	<0.01	<0.02	0.0074	<0.01	<0.05
6/21/2005	<0.01	<0.01	<0.02	0.01	<0.01	<0.05
12/12/2005	<0.01	<0.01	<0.02	<0.01	<0.01	<0.05
4/4/2006				0.013		<0.05
6/27/2006	<0.01	<0.01	<0.02	<0.01	<0.01	<0.05
8/30/2006				0.0039		<0.05
12/4/2006	<0.01	<0.01	<0.02	0.016	<0.01	0.0031
2/15/2007				0.017		0.0025
6/23/2007	0.0036	<0.01	<0.02	0.0076	<0.01	0.0032
9/11/2007				0.012		<0.05
12/11/2007	<0.01	<0.01	<0.02	0.017	<0.01	<0.05
3/11/2008				0.012		<0.05
6/23/2008	<0.01	<0.01	<0.02			
6/24/2008				0.0069	<0.01	<0.05
11/3/2008				0.016		0.0032
12/4/2008	<0.01	<0.01	<0.02	0.013		
12/5/2008					<0.01	<0.05
3/25/2009				0.014		<0.05
7/8/2009	0.0026	<0.01	<0.02	0.014	<0.01	0.0036
9/14/2009				0.0072		0.0026
12/20/2009				0.02	<0.01	0.0031
12/21/2009	<0.01	<0.01	<0.02			
3/4/2010				0.023		<0.05
6/20/2010	<0.01	<0.01	<0.02	0.017	<0.01	
6/21/2010						0.0025
9/14/2010				0.018		0.0035
1/6/2011	0.003		0.0028			
1/7/2011		<0.01		0.019	<0.01	0.0036
4/15/2011				0.019		<0.05
7/7/2011	0.004	<0.01	<0.02	0.014	0.0036	0.003
9/25/2011				0.015		0.0037
1/17/2012	<0.01	<0.01	<0.02	0.021	<0.01	
1/18/2012						<0.05
4/4/2012				0.0191		<0.05
7/9/2012	0.005	<0.01	<0.02	0.026	0.0059	
7/10/2012						0.0026
10/9/2012				0.049		0.007
1/17/2013	0.005	<0.01	<0.02			
1/18/2013				0.036	<0.01	<0.05
4/5/2013				0.04		<0.05
7/16/2013	<0.01	<0.01	<0.02			

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Vanadium (mg/L) Analysis Run 12/12/2024 2:02 PM

Grumman Road Landfill Client: Southern Company Data: Grumman Road Landfill

	GWC-11	GWC-12	GWC-13	GWC-14	GWC-15	GWC-16
7/17/2013				0.062	<0.01	<0.05
10/11/2013				0.032		<0.05
1/13/2014	<0.01	<0.01	<0.02		<0.01	
1/14/2014				0.044		<0.05
4/3/2014				0.077 (O)		0.0032 (J)
7/8/2014	0.0024 (J)	0.0034 (J)	0.002 (J)			
7/9/2014				0.032	0.0012 (J)	0.0031 (J)
10/24/2014				0.045		0.0028 (J)
1/13/2015	0.0023 (J)	<0.01	0.0015 (J)		0.0013 (J)	
1/14/2015				0.031		0.0034 (J)
5/10/2015				0.013		
5/11/2015						0.0026 (J)
7/16/2015	0.002 (J)	0.0049 (J)	<0.02		<0.01	0.0028 (J)
7/17/2015				0.028		
10/6/2015				0.02		0.0016 (J)
1/17/2016				0.028	0.0013 (J)	0.0029 (J)
1/18/2016		0.0058	0.0011 (J)			
1/19/2016	0.0025 (J)					
4/26/2016				0.0181		0.00296 (J)
7/26/2016	0.0027 (J)		<0.02			
7/27/2016		0.0058 (J)		0.0189	<0.01	
7/28/2016						0.0026 (J)
10/25/2016				0.0206	<0.01	<0.05
1/4/2017	<0.01	<0.01				<0.05
1/5/2017			<0.02	0.0172	<0.01	
4/3/2017					0.002 (J)	
4/4/2017				0.0235		
4/5/2017		0.0039 (J)				0.0033 (J)
4/6/2017	0.0025 (J)		<0.02			
7/10/2017		0.0062 (J)				
7/11/2017	0.0027 (J)			0.0136	0.0022 (J)	
7/12/2017			0.0016 (J)			0.0037 (J)
10/2/2017				0.0175	0.0022 (J)	
10/3/2017						0.0036 (J)
1/9/2018				0.0103	0.0021 (J)	
1/10/2018			0.0019 (J)			0.0029 (J)
1/11/2018	0.0019 (J)	0.0025 (J)				
7/9/2018				0.0078 (J)		
7/10/2018					0.0025 (J)	0.0025 (J)
7/11/2018	0.0021 (J)	0.0059 (J)	0.0097 (J)			
1/16/2019			<0.02	0.0043 (J)		
1/17/2019	0.0021 (J)	<0.01			<0.01	0.0021 (J)
3/26/2019			0.0029 (J)	0.0063 (J)	0.0026 (J)	0.0038 (J)
3/27/2019	0.0023 (J)	0.0049 (J)				
10/8/2019	<0.01		<0.02	<0.01	<0.01	<0.05
10/9/2019		0.0021 (J)				
4/7/2020	<0.01	0.0024 (J)		0.0026 (J)	<0.01	<0.05
4/8/2020			<0.02			
9/28/2020			<0.02			
9/29/2020	0.0023 (J)	0.0046 (J)		<0.01		
9/30/2020					0.0028 (J)	0.0028 (J)
3/10/2021	0.0023 (J)	0.0055 (J)				

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Vanadium (mg/L) Analysis Run 12/12/2024 2:02 PM

Grumman Road Landfill Client: Southern Company Data: Grumman Road Landfill

	GWC-11	GWC-12	GWC-13	GWC-14	GWC-15	GWC-16
3/12/2021					0.0037 (J)	
3/15/2021			<0.02			
3/16/2021				<0.01		0.0034 (J)
9/21/2021	0.002 (J)	0.0051 (J)	<0.02			
9/22/2021				0.0052 (J)		0.0025 (J)
9/23/2021					0.0022 (J)	
2/1/2022						0.0021 (J)
2/2/2022				0.004 (J)		
2/3/2022	0.0031 (J)	0.0052 (J)	<0.02		0.0023 (J)	
8/30/2022		0.00949 (J)		0.00933 (J)		
8/31/2022	0.00481 (J)		<0.02		0.00476 (J)	
9/1/2022						0.0065 (J)
2/1/2023	0.00373 (J)	0.0056 (J)	<0.02			0.00361 (J)
2/2/2023				0.00594 (J)	0.00453 (J)	
8/29/2023			0.0188 (J)			
9/6/2023	0.00685 (J)	0.0101 (J)		0.00671 (J)		0.00631 (J)
9/7/2023					0.00462 (J)	
1/24/2024	0.00641 (J)				0.00594 (J)	
1/25/2024		0.00544 (J)	0.00439 (J)	0.00731 (J)		0.00575 (J)
8/21/2024	0.00332 (J)	0.00869 (J)	<0.02	0.0038 (J)	0.00338 (J)	0.00407 (J)

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Vanadium (mg/L) Analysis Run 12/12/2024 2:02 PM

Grumman Road Landfill Client: Southern Company Data: Grumman Road Landfill

	GWC-17	GWC-2	GWC-20	GWC-21	GWC-22	GWC-9
9/29/2000	<0.02					<0.02
11/21/2000	<0.02	<0.02				<0.02
1/20/2001	<0.02	<0.02				<0.02
3/14/2001	<0.02	<0.02				<0.02
7/16/2001	<0.02	<0.02				<0.02
11/1/2001	<0.02	<0.02				<0.02
4/25/2002	<0.02	<0.02				<0.02
11/20/2002	<0.02	<0.02				0.014
6/6/2003	<0.02	<0.02				<0.02
12/12/2003	<0.02	<0.02				<0.02
5/26/2004	<0.02	<0.02				<0.02
12/7/2004	<0.02	<0.02				<0.02
6/21/2005	<0.02	<0.02				<0.02
12/12/2005	<0.02	<0.02				<0.02
6/27/2006	0.0025	<0.02				<0.02
12/4/2006	<0.02	<0.02				<0.02
6/23/2007	<0.02	<0.02				<0.02
12/11/2007	<0.02	<0.02				<0.02
6/23/2008						<0.02
6/24/2008	<0.02	<0.02				
12/4/2008		<0.02				<0.02
12/5/2008	<0.02					
7/8/2009	<0.02	<0.02				0.0029
12/20/2009		<0.02				
12/21/2009	<0.02					<0.02
6/20/2010		<0.02				<0.02
6/21/2010	<0.02		<0.01	<0.01	<0.02	
1/6/2011		<0.02				
1/7/2011	<0.02		0.0029	0.0031	<0.02	<0.02
7/7/2011			<0.01			
7/8/2011	0.0031		0.0046	0.0048	<0.02	<0.02
1/17/2012		<0.02				
1/18/2012	<0.02		<0.01	<0.01	<0.02	<0.02
7/9/2012		<0.02				
7/10/2012	<0.02		0.0081	<0.01	<0.02	<0.02
1/17/2013		<0.02				
1/18/2013	<0.02		0.0063	<0.01	<0.02	<0.02
7/17/2013	<0.02	<0.02	<0.01	<0.01	<0.02	<0.02
1/13/2014		<0.02				
1/14/2014	<0.02		<0.01	0.006	<0.02	<0.02
7/9/2014	0.0012 (J)	<0.02		0.0019 (J)		0.0016 (J)
7/10/2014			0.0026 (J)		0.0053	
1/12/2015			0.0031 (J)			
1/13/2015		<0.02				
1/14/2015	0.002 (J)			0.0037 (J)	0.0013 (J)	<0.02
7/16/2015		<0.02				
7/17/2015				0.0028 (J)		0.0029 (J)
7/18/2015	<0.02		0.003 (J)		0.0043 (J)	
1/17/2016		<0.02	0.0025 (J)	0.0039 (J)		
1/18/2016	0.0019 (J)				<0.02	<0.02
7/27/2016		<0.02				
7/28/2016			0.0024 (J)	0.0022 (J)		<0.02

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Vanadium (mg/L) Analysis Run 12/12/2024 2:02 PM

Grumman Road Landfill Client: Southern Company Data: Grumman Road Landfill

	GWC-17	GWC-2	GWC-20	GWC-21	GWC-22	GWC-9
7/29/2016	0.0031 (J)				0.0052 (J)	
10/25/2016			<0.01			
1/4/2017			<0.01	<0.01	<0.02	
1/5/2017	<0.02	<0.02				
1/6/2017						<0.02
4/4/2017		<0.02	0.0024 (J)	0.003 (J)		
4/5/2017	0.0029 (J)					
4/6/2017					<0.02	<0.02
7/11/2017			0.003 (J)		0.0016 (J)	
7/12/2017						0.0013 (J)
7/13/2017	0.0037 (J)	<0.02		0.0019 (J)		
10/2/2017			0.0028 (J)			
1/9/2018				0.0046 (J)		
1/10/2018		<0.02	0.0026 (J)			
1/11/2018	0.0026 (J)				0.0012 (J)	<0.02
7/9/2018			<0.01			
7/10/2018		<0.02		0.0031 (J)		
7/11/2018	0.0032 (J)				0.0025 (J)	<0.02
1/16/2019	<0.02					
1/17/2019				0.0022 (J)		
1/18/2019					<0.02	<0.02
1/21/2019		0.0024 (J)	0.0031 (J)			
3/25/2019			0.0024 (J)			
3/26/2019	0.0024 (J)			0.0041 (J)		
3/27/2019					0.002 (J)	<0.02
7/30/2019		<0.02				
10/8/2019				<0.01		
10/9/2019	<0.02	<0.02	<0.01		<0.02	<0.02
4/7/2020				<0.01	0.0014 (J)	
4/8/2020	<0.02	<0.02	<0.01			0.0015 (J)
9/29/2020		<0.02				
9/30/2020	<0.02		0.0029 (J)	0.0029 (J)	<0.02	
10/1/2020						<0.02
3/10/2021					<0.02	<0.02
3/11/2021	<0.02					
3/12/2021			0.0038 (J)			
3/15/2021		<0.02				
3/16/2021				0.003 (J)		
9/21/2021					<0.02	
9/22/2021	<0.02	<0.02	0.0033 (J)	<0.01		<0.02
2/1/2022	0.0022 (J)		0.0039 (J)	0.0036 (J)		
2/2/2022		<0.02				<0.02
2/3/2022					<0.02	
8/30/2022			0.00647 (J)	0.00715 (J)		
8/31/2022	0.00599 (J)				0.00396 (J)	
9/1/2022		0.0045 (J)				0.00514 (J)
2/1/2023	0.005 (J)		0.00526 (J)			<0.02
2/2/2023		<0.02		0.00537 (J)	<0.02	
8/29/2023	0.0108 (J)	0.00777 (J)			0.0353	0.0103 (J)
9/6/2023			0.00768 (J)	0.0101 (J)		
1/23/2024					0.00394 (J)	
1/24/2024	0.0059 (J)		0.00642 (J)			<0.02

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Vanadium (mg/L) Analysis Run 12/12/2024 2:02 PM

Grumman Road Landfill Client: Southern Company Data: Grumman Road Landfill

	GWC-17	GWC-2	GWC-20	GWC-21	GWC-22	GWC-9
1/25/2024		<0.02		0.00735 (J)		
8/21/2024	<0.02	<0.02	0.00558 (J)		<0.02	<0.02
8/22/2024				0.00457 (J)		

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Vanadium (mg/L) Analysis Run 12/12/2024 2:02 PM

Grumman Road Landfill Client: Southern Company Data: Grumman Road Landfill

	MW-23D	MW-24D	MW-25D	MW-26D
3/11/2021	<0.02	<0.02	0.0024 (J)	<0.02
9/21/2021				<0.02
9/22/2021	<0.02	<0.02		
9/23/2021			<0.02	
2/1/2022		<0.02		
2/2/2022				<0.02
2/3/2022	<0.02		<0.02	
8/31/2022	<0.02		<0.02	
9/1/2022		0.00414 (J)		
2/1/2023	<0.02			
2/2/2023		<0.02	<0.02	
9/6/2023	<0.02	<0.02		
9/7/2023			<0.02	
1/24/2024	<0.02			
1/25/2024		<0.02	<0.02	<0.02
8/20/2024				<0.02
8/21/2024	<0.02	<0.02	<0.02	

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Zinc (mg/L) Analysis Run 12/12/2024 2:02 PM

Grumman Road Landfill Client: Southern Company Data: Grumman Road Landfill

	GWA-7 (bg)	GWA-8 (bg)	GWB-4R	GWB-5R	GWB-6R	GWC-1
9/29/2000	<0.05	<0.02	<0.02	0.026	<0.01	<0.02
11/21/2000	<0.05		<0.02	<0.02	0.024	<0.02
1/20/2001	<0.05	0.025	0.041	0.031	<0.01	<0.02
3/14/2001	<0.05	<0.02	<0.02	0.063	<0.01	<0.02
7/16/2001	<0.05	<0.02	0.059	0.08	<0.01	<0.02
11/1/2001	<0.05	<0.02	<0.02	0.16	<0.01	<0.02
4/25/2002	<0.05	<0.02	<0.02	<0.02	<0.01	<0.02
11/20/2002		0.016	0.061	0.14	0.028	<0.02
6/6/2003	0.69 (O)	0.032	0.041	0.51 (O)	0.032	0.011
12/12/2003	0.12	0.019	0.012	<0.02	<0.01	<0.02
5/26/2004	0.013	<0.02	0.016	0.036	<0.01	<0.02
12/7/2004	<0.05	<0.02	<0.02	0.069	0.012	<0.02
6/21/2005	<0.05	<0.02	<0.02	0.076	<0.01	<0.02
12/12/2005	0.014	0.01	0.017	<0.02	<0.01	<0.02
4/4/2006		<0.02				
6/27/2006	0.01	0.0043	0.11	0.01	0.0071	<0.02
8/30/2006		0.017				
12/4/2006	0.0065	0.0053	0.086	0.0035	0.0096	<0.02
2/15/2007		0.0045				
6/23/2007	0.0049	0.0043	0.076	0.0032	0.094 (O)	<0.02
9/11/2007		0.004				
12/11/2007	0.0043	0.0048	0.087	0.0079	0.042	<0.02
3/11/2008		0.0043				
6/23/2008	0.0025	0.0037				
6/24/2008			0.062	<0.02	0.098 (O)	<0.02
11/3/2008		0.0032				
12/4/2008	0.0025	0.0029				
12/5/2008			0.014	<0.02	0.047	<0.02
3/25/2009		0.0055				
7/7/2009	<0.05	0.0028	0.052	<0.02	0.024	<0.02
9/14/2009		0.0027				
12/20/2009	0.0031	0.0029				<0.02
12/21/2009			0.046	<0.02	0.049	
3/4/2010		0.0042				
6/20/2010	<0.05	0.0027		<0.02	0.045	<0.02
6/21/2010			0.045			
9/14/2010		<0.02				
1/6/2011				<0.02		<0.02
1/7/2011	<0.05	0.0032	0.024		0.0044	
4/15/2011		<0.02				
7/7/2011	0.0031	0.005		0.0027	0.003	0.0025
7/8/2011			0.023			
9/25/2011		0.0041				
1/17/2012	0.004	0.0043		0.0039		<0.02
1/18/2012			0.011		0.0048	
4/4/2012		<0.02				
7/9/2012	0.0096			<0.02		<0.02
7/10/2012		0.0028	0.024		<0.01	
10/9/2012		0.0033				
1/17/2013				<0.02		<0.02
1/18/2013	0.051	0.0038	0.011		0.0028	
4/5/2013		0.0026				

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Zinc (mg/L) Analysis Run 12/12/2024 2:02 PM

Grumman Road Landfill Client: Southern Company Data: Grumman Road Landfill

	GWA-7 (bg)	GWA-8 (bg)	GWB-4R	GWB-5R	GWB-6R	GWC-1
7/16/2013				0.0032		<0.02
7/17/2013	0.042	<0.02	0.0029		<0.01	
10/11/2013		0.0046				
1/13/2014	0.0025			0.0025		0.0025
1/14/2014		0.0025	0.0025		0.0025	
4/3/2014		0.0029				
7/9/2014	0.064	0.002 (J)	0.0051	0.00076 (J)	0.00093 (J)	<0.02
10/24/2014		0.0031				
1/12/2015			0.0023 (J)			
1/13/2015	0.066			0.0036		0.0025
1/14/2015		0.003			0.0023 (J)	
5/10/2015		0.0028				
7/16/2015	0.036		0.0021 (J)	<0.02		<0.02
7/17/2015		0.0018 (J)			<0.01	
10/6/2015		0.0018 (J)				
1/17/2016						<0.02
1/18/2016	0.035	0.0028	0.0092	<0.02	0.0029	
4/26/2016		<0.02				
7/27/2016	0.0529			0.0015 (J)		<0.02
7/28/2016		0.0018 (J)			<0.01	
7/29/2016			0.003 (J)			
10/24/2016		0.0024 (J)				
10/25/2016	0.0035 (J)					
1/3/2017		0.0035 (J)		<0.02		
1/4/2017						<0.02
1/5/2017					<0.01	
1/6/2017	0.0235		0.0104			
4/3/2017		0.0041 (J)				
4/4/2017			0.0132			<0.02
4/6/2017	0.0829			0.0023 (J)	0.0032 (J)	
7/11/2017		0.0029 (J)				
7/12/2017			0.0046 (J)	<0.02	0.002 (J)	<0.02
7/13/2017	0.0853					
10/2/2017		0.0026 (J)				
10/4/2017	0.0263					
1/9/2018	0.0665	0.0035 (J)			0.0036 (J)	
1/10/2018				0.0022 (J)		0.0014 (J)
1/11/2018			0.0095 (J)			
7/9/2018		0.0022 (J)				
7/10/2018				<0.02	0.0055 (J)	0.0021 (J)
7/11/2018	0.02 (J)		0.0028 (J)			
1/16/2019	0.014 (J)	0.0037 (J)	0.0052 (J)	<0.02	<0.01	<0.02
3/25/2019	<0.05 (O)	<0.02	0.0078 (J)			
3/26/2019				<0.02	<0.01	<0.02
10/7/2019		0.0077 (J)				
10/8/2019	0.095					
10/9/2019			0.0064 (J)	0.0081 (J)	0.016 (J)	0.0057 (J)
4/6/2020	<0.05	<0.02				
4/7/2020			<0.02	<0.02	<0.01	<0.02
9/28/2020	0.16	0.0092 (J)				0.0092 (J)
9/30/2020				<0.02	<0.01	
10/1/2020			0.0064 (J)			

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Zinc (mg/L) Analysis Run 12/12/2024 2:02 PM

Grumman Road Landfill Client: Southern Company Data: Grumman Road Landfill

	GWA-7 (bg)	GWA-8 (bg)	GWB-4R	GWB-5R	GWB-6R	GWC-1
3/10/2021			<0.02	<0.02	<0.01	<0.02
3/11/2021	0.054					
3/12/2021		0.0028 (J)				
9/21/2021	<0.05	<0.02	<0.02	<0.02	<0.01	
9/23/2021						<0.02
1/31/2022	<0.05	<0.02				
2/2/2022			<0.02		<0.01	
2/3/2022				<0.02		<0.02
8/30/2022	0.011 (J)	<0.02	<0.02	<0.02	0.0132 (J)	
9/1/2022						0.00578 (J)
1/31/2023	0.00457 (J)	<0.02				
2/1/2023				<0.02	0.0121 (J)	
2/2/2023			<0.02			<0.02
8/28/2023	0.00851 (J)	<0.02				
8/29/2023			<0.02	<0.02	0.0406	<0.02
1/23/2024	0.00392 (J)	<0.02			0.0212	<0.02
2/7/2024			0.00455 (J)			
2/8/2024				<0.02		
8/19/2024	0.00727 (J)					
8/20/2024			0.00972 (J)		0.0355	0.00917 (J)
8/21/2024		0.0123 (J)		<0.02		

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Zinc (mg/L) Analysis Run 12/12/2024 2:02 PM

Grumman Road Landfill Client: Southern Company Data: Grumman Road Landfill

	GWC-11	GWC-12	GWC-13	GWC-14	GWC-15	GWC-16
9/29/2000	<0.02	0.38	<0.0025	<0.02	<0.02	<0.02
11/21/2000	<0.02	0.077	<0.0025	<0.02	<0.02	<0.02
1/20/2001	<0.02	0.23	<0.0025	<0.02	<0.02	<0.02
3/14/2001	<0.02	0.24	<0.0025	<0.02	<0.02	<0.02
7/16/2001	<0.02	0.053	<0.0025	<0.02	<0.02	<0.02
11/1/2001	<0.02	0.022	0.044	<0.02	<0.02	<0.02
4/25/2002	<0.02	1.2 (O)	<0.0025	<0.02	<0.02	<0.02
11/20/2002	<0.02	0.045	0.023	<0.02	<0.02	<0.02
6/6/2003	<0.02	0.042	<0.0025	<0.02	<0.02	0.035
12/12/2003	0.013	<0.02	<0.0025	<0.02	<0.02	<0.02
5/26/2004	<0.02	<0.02	0.035	<0.02	<0.02	<0.02
12/7/2004	0.028	<0.02	0.018	<0.02	<0.02	<0.02
6/21/2005	<0.02	<0.02	0.014	<0.02	<0.02	<0.02
12/12/2005	<0.02	<0.02	0.023	0.011	0.064 (O)	<0.02
4/4/2006				<0.02		<0.02
6/27/2006	0.0028	0.012	0.023	0.0045	0.011	0.077 (O)
8/30/2006				<0.02		0.0027
12/4/2006	0.0028	0.0067	0.046	<0.02	0.0033	<0.02
2/15/2007				<0.02		0.0032
6/23/2007	0.0063	0.025	0.036	<0.02	0.0029	0.0058
9/11/2007				<0.02		0.0033
12/11/2007	<0.02	0.0038	0.011	<0.02	<0.02	<0.02
3/11/2008				<0.02		<0.02
6/23/2008	<0.02	0.0051	0.0091			
6/24/2008				<0.02	<0.02	<0.02
11/3/2008				<0.02		0.0025
12/4/2008	<0.02	<0.02	0.0038	<0.02		
12/5/2008					<0.02	<0.02
3/25/2009				<0.02		0.0025
7/8/2009	<0.02	<0.02	<0.0025	<0.02	<0.02	<0.02
9/14/2009				<0.02		<0.02
12/20/2009				<0.02	<0.02	<0.02
12/21/2009	<0.02	0.013	0.0032			
3/4/2010				<0.02		<0.02
6/20/2010	<0.02	<0.02	<0.0025	<0.02	<0.02	
6/21/2010						<0.02
9/14/2010				<0.02		<0.02
1/6/2011	<0.02		0.004			
1/7/2011		0.004		<0.02	<0.02	<0.02
4/15/2011				<0.02		<0.02
7/7/2011	<0.02	0.0028	0.0037	<0.02	<0.02	<0.02
9/25/2011				<0.02		0.0028
1/17/2012	0.0043	0.0043	0.0031	<0.02	<0.02	
1/18/2012						0.0029
4/4/2012				<0.02		<0.02
7/9/2012	<0.02	<0.02	0.003	<0.02	<0.02	
7/10/2012						<0.02
10/9/2012				<0.02		0.0027
1/17/2013	0.0025	0.0033	<0.0025			
1/18/2013				<0.02	<0.02	<0.02
4/5/2013				<0.02		<0.02
7/16/2013	<0.02	0.0028	0.0029			

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Zinc (mg/L) Analysis Run 12/12/2024 2:02 PM

Grumman Road Landfill Client: Southern Company Data: Grumman Road Landfill

	GWC-11	GWC-12	GWC-13	GWC-14	GWC-15	GWC-16
7/17/2013				<0.02	<0.02	<0.02
10/11/2013				<0.02		<0.02
1/13/2014	0.0025	0.0025	0.0025		0.0025	
1/14/2014				0.0025		0.0025
4/3/2014				0.0014 (J)		0.0015 (J)
7/8/2014	0.0011 (J)	0.002 (J)	0.0018 (J)			
7/9/2014				0.00086 (J)	<0.02	0.0012 (J)
10/24/2014				0.00083 (J)		0.0013 (J)
1/13/2015	0.0021 (J)	0.0079	0.0028		<0.02	
1/14/2015				<0.02		0.0017 (J)
5/10/2015				<0.02		
5/11/2015						0.0015 (J)
7/16/2015	<0.02	0.0026	0.0018 (J)		<0.02	<0.02
7/17/2015				<0.02		
10/6/2015				<0.02		<0.02
1/17/2016				<0.02	<0.02	<0.02
1/18/2016		0.0025	0.0017 (J)			
1/19/2016	0.0029					
4/26/2016				<0.02		<0.02
7/26/2016	<0.02		0.0028 (J)			
7/27/2016		0.0021 (J)		<0.02	<0.02	
7/28/2016						<0.02
10/25/2016				<0.02	<0.02	<0.02
1/4/2017	<0.02	0.0025 (J)				0.0025 (J)
1/5/2017			0.0021 (J)	<0.02	<0.02	
4/3/2017					<0.02	
4/4/2017				<0.02		
4/5/2017		0.0026 (J)				0.0025 (J)
4/6/2017	0.004 (J)		0.0027 (J)			
7/10/2017		0.0023 (J)				
7/11/2017	<0.02			<0.02	<0.02	
7/12/2017			0.0043 (J)			0.002 (J)
10/2/2017				0.0026 (J)	<0.02	
10/3/2017						<0.02
1/9/2018				0.0018 (J)	<0.02	
1/10/2018			0.0021 (J)			0.0016 (J)
1/11/2018	0.0018 (J)	0.0031 (J)				
7/9/2018				<0.02		
7/10/2018					<0.02	0.0031 (J)
7/11/2018	<0.02	0.0036 (J)	0.0039 (J)			
1/16/2019			0.047	<0.02		
1/17/2019	<0.02	0.0032 (J)			<0.02	<0.02
3/26/2019			0.03	<0.02	<0.02	<0.02
3/27/2019	<0.02	0.0031 (J)				
10/8/2019	0.0061 (J)		0.053	0.0052 (J)	0.0051 (J)	0.01
10/9/2019		0.0057 (J)				
4/7/2020	<0.02	<0.02		<0.02	<0.02	<0.02
4/8/2020			0.023			
9/28/2020			0.016			
9/29/2020	0.0031 (J)	0.0074 (J)		<0.02		
9/30/2020					0.032	0.0051 (J)
3/10/2021	<0.02	<0.02				

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Zinc (mg/L) Analysis Run 12/12/2024 2:02 PM

Grumman Road Landfill Client: Southern Company Data: Grumman Road Landfill

	GWC-11	GWC-12	GWC-13	GWC-14	GWC-15	GWC-16
3/12/2021					<0.02	
3/15/2021			0.039			
3/16/2021				<0.02		<0.02
9/21/2021	<0.02	<0.02	0.036			
9/22/2021				0.01		<0.02
9/23/2021					<0.02	
2/1/2022						<0.02
2/2/2022				<0.02		
2/3/2022	<0.02	<0.02	0.037		<0.02	
8/30/2022		0.0262		<0.02		
8/31/2022	<0.02		0.0266		0.00395 (J)	
9/1/2022						0.0119 (J)
2/1/2023	<0.02	0.00334 (J)	0.025			<0.02
2/2/2023				<0.02	<0.02	
8/29/2023			0.0194 (J)			
9/6/2023	0.00479 (J)	<0.02		<0.02		<0.02
9/7/2023					<0.02	
1/24/2024	<0.02				<0.02	
1/25/2024		<0.02	0.0195 (J)	<0.02		<0.02
8/21/2024	0.0392	0.00744 (J)	0.0168 (J)	<0.02	<0.02	<0.02

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Zinc (mg/L) Analysis Run 12/12/2024 2:02 PM

Grumman Road Landfill Client: Southern Company Data: Grumman Road Landfill

	GWC-17	GWC-2	GWC-20	GWC-21	GWC-22	GWC-9
9/29/2000	<0.01					<0.02
11/21/2000	<0.01	0.021				<0.02
1/20/2001	<0.01	<0.02				<0.02
3/14/2001	<0.01	<0.02				<0.02
7/16/2001	<0.01	<0.02				<0.02
11/1/2001	<0.01	<0.02				<0.02
4/25/2002	<0.01	<0.02				<0.02
11/20/2002	0.014	<0.02				0.033
6/6/2003	0.012	<0.02				<0.02
12/12/2003	<0.01	<0.02				<0.02
5/26/2004	<0.01	<0.02				<0.02
12/7/2004	<0.01	<0.02				<0.02
6/21/2005	<0.01	<0.02				<0.02
12/12/2005	<0.01	0.012				0.032
6/27/2006	0.0046	<0.02				0.018
12/4/2006	0.0071	<0.02				0.0044
6/23/2007	0.005	<0.02				0.0041
12/11/2007	0.0033	<0.02				0.0039
6/23/2008						<0.02
6/24/2008	0.0037	<0.02				
12/4/2008		<0.02				0.0039
12/5/2008	0.0027					
7/8/2009	0.0048	<0.02				<0.02
12/20/2009		<0.02				
12/21/2009	0.0032					0.004
6/20/2010		<0.02				<0.02
6/21/2010	0.0028		<0.02	0.04	<0.02	
1/6/2011		<0.02				
1/7/2011	0.003		<0.02	<0.02	0.019	0.0032
7/7/2011			<0.02			
7/8/2011	0.0034		0.086 (J)	0.0044	0.1 (O)	0.0025
1/17/2012		<0.02				
1/18/2012	0.0049		<0.02	<0.02	0.0051	0.0045
7/9/2012		<0.02				
7/10/2012	0.0039		<0.02	<0.02	0.01	<0.02
1/17/2013		<0.02				
1/18/2013	0.0043		0.0032	<0.02	0.0036	0.0029
7/17/2013	0.0035	<0.02	<0.02	<0.02	0.0025	<0.02
1/13/2014		0.0025				
1/14/2014	0.0025		0.0025	0.0025	0.0025	0.0025
7/9/2014	0.0033	0.00058 (J)		0.00084 (J)		0.0016 (J)
7/10/2014			<0.02		0.024	
1/12/2015			<0.02			
1/13/2015		0.0024 (J)				
1/14/2015	0.0067			0.0018 (J)	0.0016 (J)	0.0024 (J)
7/16/2015		<0.02				
7/17/2015				<0.02		0.0031
7/18/2015	<0.01		<0.02		0.014	
1/17/2016		<0.02	<0.02	<0.02		
1/18/2016	0.012				<0.02	0.0059
7/27/2016		0.0018 (J)				
7/28/2016			<0.02	<0.02		0.0019 (J)

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Zinc (mg/L) Analysis Run 12/12/2024 2:02 PM

Grumman Road Landfill Client: Southern Company Data: Grumman Road Landfill

	GWC-17	GWC-2	GWC-20	GWC-21	GWC-22	GWC-9
7/29/2016	0.0086 (J)				0.0129	
10/25/2016			<0.02			
1/4/2017			<0.02	<0.02	0.006 (J)	
1/5/2017	0.016	<0.02				
1/6/2017						0.0026 (J)
4/4/2017		0.0015 (J)	<0.02	0.0015 (J)		
4/5/2017	0.0175					
4/6/2017					0.0031 (J)	0.0047 (J)
7/11/2017			<0.02		0.0029 (J)	
7/12/2017						0.003 (J)
7/13/2017	0.0126	0.0014 (J)		0.002 (J)		
10/2/2017			<0.02			
1/9/2018				0.0016 (J)		
1/10/2018		<0.02	0.0034 (J)			
1/11/2018	0.012				0.0106	0.0046 (J)
7/9/2018			<0.02			
7/10/2018		<0.02		<0.02		
7/11/2018	0.011				0.0057 (J)	0.0033 (J)
1/16/2019	0.0094 (J)					
1/17/2019				<0.02		
1/18/2019					0.0024 (J)	0.0025 (J)
1/21/2019		<0.02	<0.02			
3/25/2019			<0.02			
3/26/2019	0.0057 (J)			<0.02		
3/27/2019					<0.02	0.0026 (J)
7/30/2019		0.0067 (J)				
10/8/2019				0.0071 (J)		
10/9/2019	0.011	0.005 (J)	0.0049 (J)		0.0079 (J)	0.0054 (J)
4/7/2020				<0.02	<0.02	
4/8/2020	<0.01	<0.02	<0.02			<0.02
9/29/2020		0.056				
9/30/2020	0.0043 (J)		0.031	0.0096 (J)	<0.02	
10/1/2020						0.025
3/10/2021					<0.02	<0.02
3/11/2021	0.0056 (J)					
3/12/2021			<0.02			
3/15/2021		<0.02				
3/16/2021				<0.02		
9/21/2021					<0.02	
9/22/2021	<0.01	<0.02	<0.02	<0.02		<0.02
2/1/2022	0.011		<0.02	<0.02		
2/2/2022		<0.02				<0.02
2/3/2022					<0.02	
8/30/2022			0.0171 (J)	0.00814 (J)		
8/31/2022	0.0068 (J)				<0.02	
9/1/2022		0.0125 (J)				0.0163 (J)
2/1/2023	0.00583 (J)		<0.02			<0.02
2/2/2023		<0.02		<0.02	<0.02	
8/29/2023	0.00535 (J)	<0.02			0.0054 (J)	<0.02
9/6/2023			<0.02	<0.02		
1/23/2024					<0.02	
1/24/2024	0.00654 (J)		<0.02			<0.02

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Zinc (mg/L) Analysis Run 12/12/2024 2:02 PM

Grumman Road Landfill Client: Southern Company Data: Grumman Road Landfill

	GWC-17	GWC-2	GWC-20	GWC-21	GWC-22	GWC-9
1/25/2024		<0.02		<0.02		
8/21/2024	0.0066 (J)	<0.02	<0.02		0.0141 (J)	0.0137 (J)
8/22/2024				<0.02		

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Zinc (mg/L) Analysis Run 12/12/2024 2:02 PM

Grumman Road Landfill Client: Southern Company Data: Grumman Road Landfill

	MW-23D	MW-24D	MW-25D	MW-26D
3/11/2021	0.0067 (J)	0.0025 (J)	0.0054 (J)	0.008 (J)
9/21/2021				<0.01
9/22/2021	<0.02	<0.02		
9/23/2021			<0.02	
2/1/2022		<0.02		
2/2/2022				<0.01
2/3/2022	<0.02		0.051	
8/31/2022	0.0106 (J)		0.0161 (J)	
9/1/2022		0.0102 (J)		
2/1/2023	0.0121 (J)			
2/2/2023		<0.02	<0.02	
9/6/2023	<0.02	<0.02		
9/7/2023			<0.02	
1/24/2024	<0.02			
1/25/2024		<0.02	0.00738 (J)	0.0401
8/20/2024				0.0261
8/21/2024	<0.02	<0.02	<0.02	

ND substitution: RL or RL/2 if <15% NDs.

FIGURE B.

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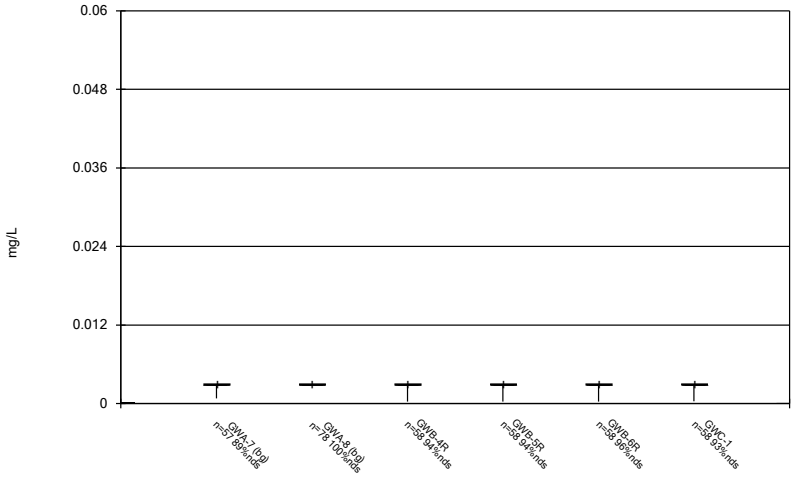
Box & Whiskers Plot



Constituent: Antimony Analysis Run 12/12/2024 2:02 PM

Grumman Road Landfill Client: Southern Company Data: Grumman Road Landfill

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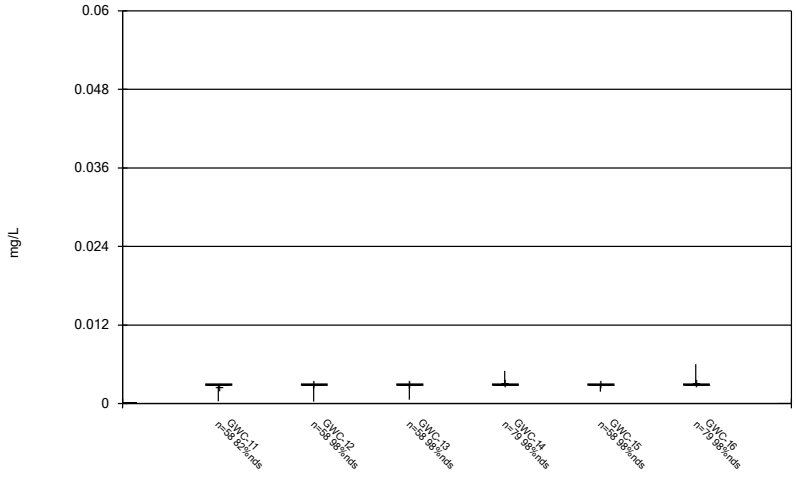
Box & Whiskers Plot



Constituent: Antimony Analysis Run 12/12/2024 2:02 PM

Grumman Road Landfill Client: Southern Company Data: Grumman Road Landfill

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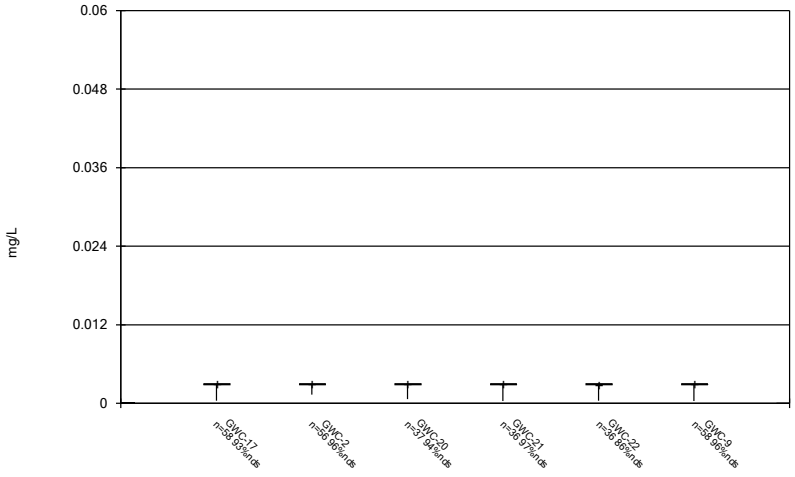
Box & Whiskers Plot



Constituent: Antimony Analysis Run 12/12/2024 2:02 PM

Grumman Road Landfill Client: Southern Company Data: Grumman Road Landfill

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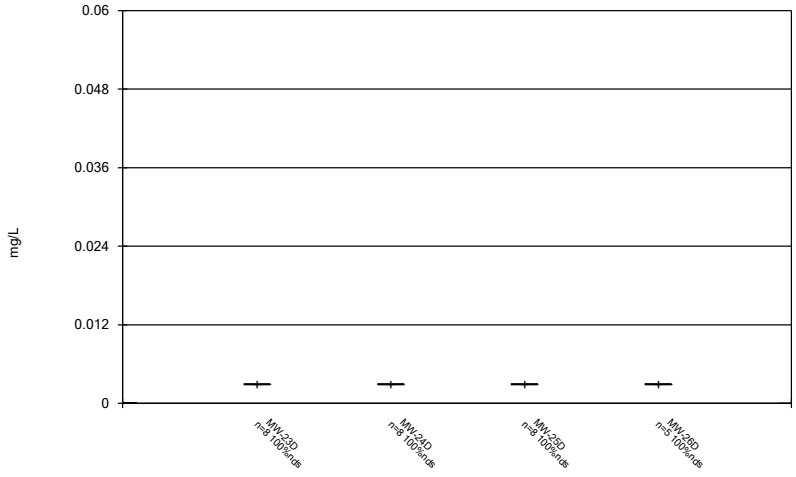
Box & Whiskers Plot



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Grumman Road Landfill Client: Southern Company Data: Grumman Road Landfill

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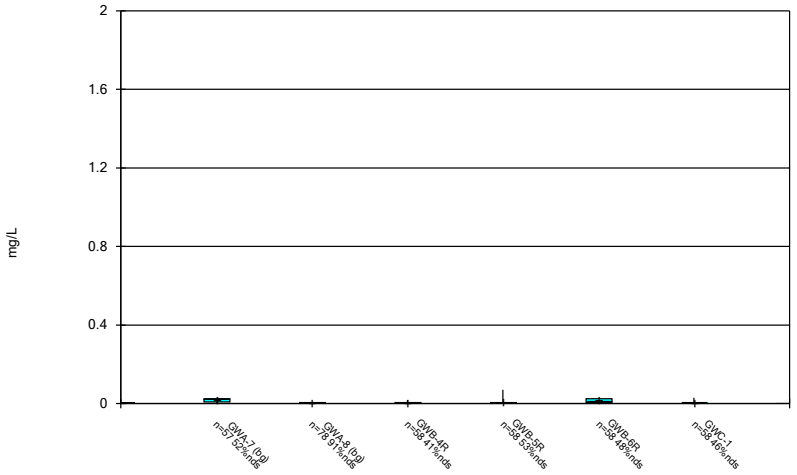
Box & Whiskers Plot



Constituent: Arsenic Analysis Run 12/12/2024 2:02 PM

Grumman Road Landfill Client: Southern Company Data: Grumman Road Landfill

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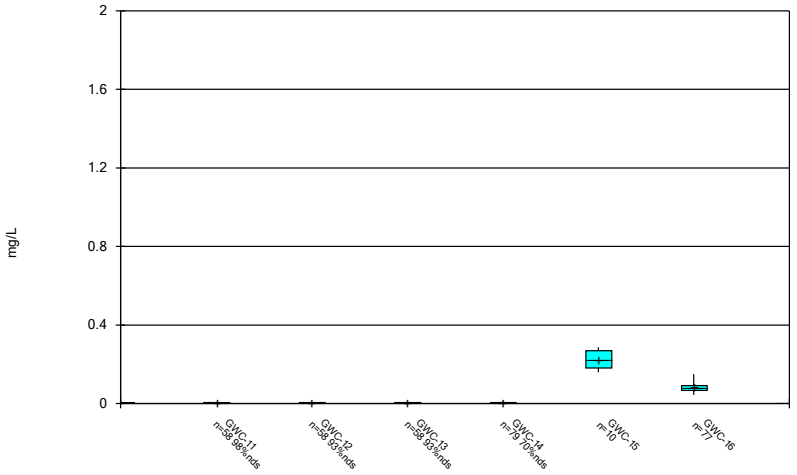
Box & Whiskers Plot



Constituent: Arsenic Analysis Run 12/12/2024 2:02 PM

Grumman Road Landfill Client: Southern Company Data: Grumman Road Landfill

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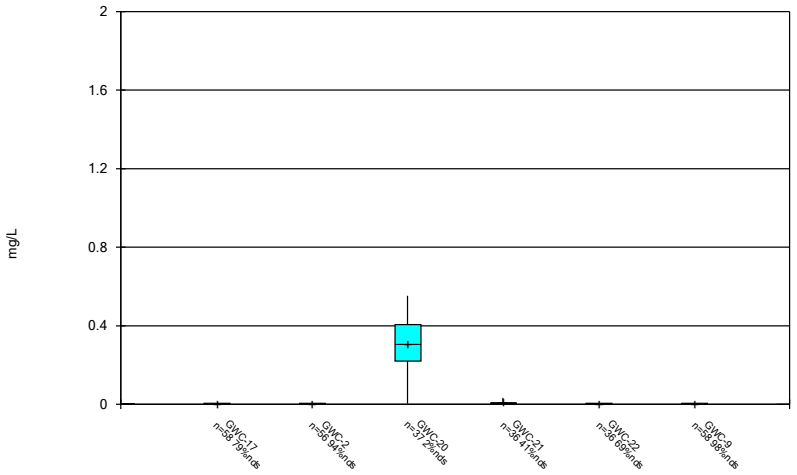
Box & Whiskers Plot



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Grumman Road Landfill Client: Southern Company Data: Grumman Road Landfill

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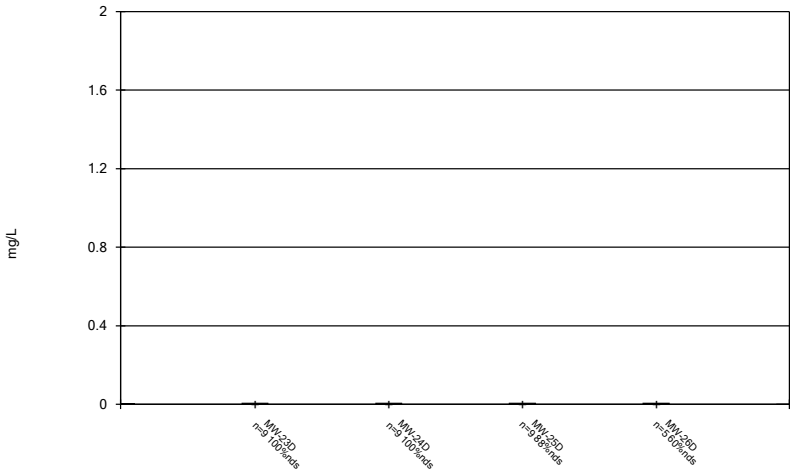
Box & Whiskers Plot



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Grumman Road Landfill Client: Southern Company Data: Grumman Road Landfill

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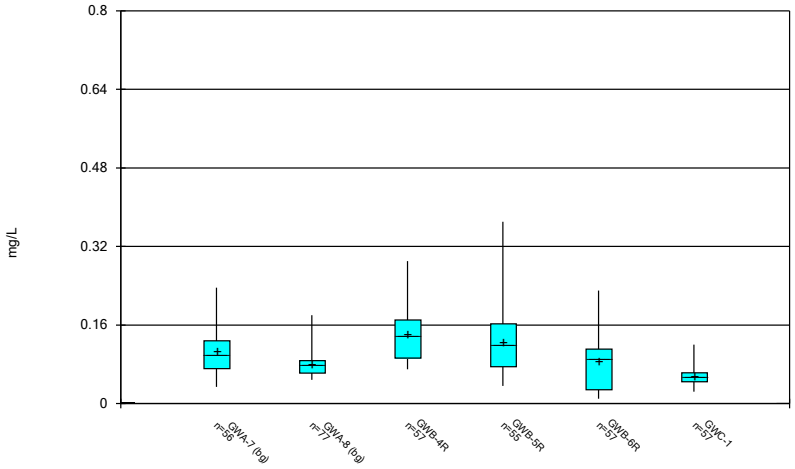
Box & Whiskers Plot



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Grumman Road Landfill Client: Southern Company Data: Grumman Road Landfill

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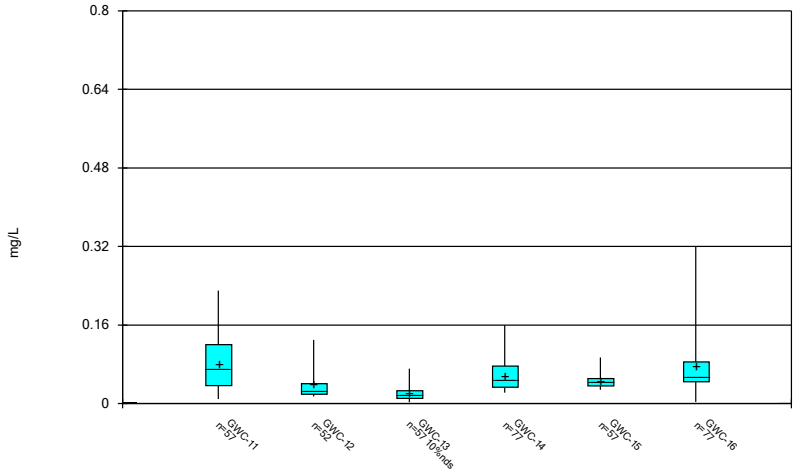
Box & Whiskers Plot



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Grumman Road Landfill Client: Southern Company Data: Grumman Road Landfill

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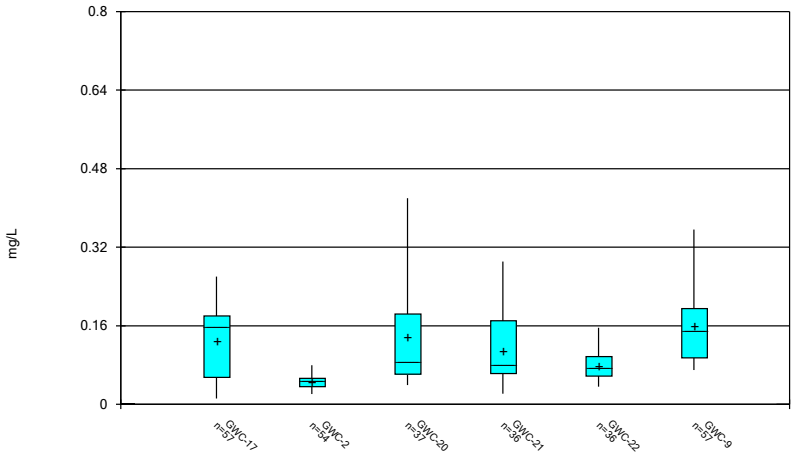
Box & Whiskers Plot



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Grumman Road Landfill Client: Southern Company Data: Grumman Road Landfill

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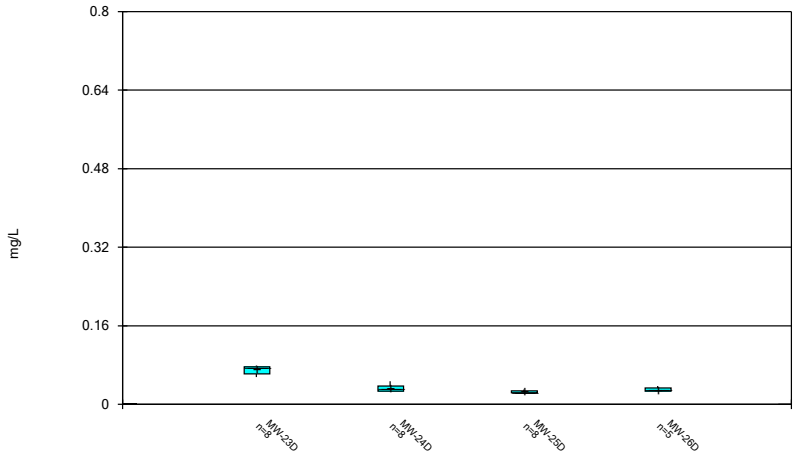
Box & Whiskers Plot



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Grumman Road Landfill Client: Southern Company Data: Grumman Road Landfill

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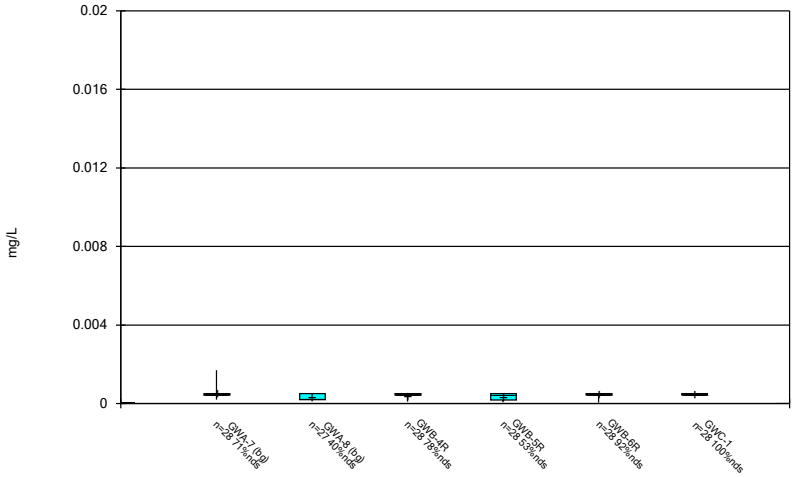
Box & Whiskers Plot



Constituent: Beryllium Analysis Run 12/12/2024 2:03 PM

Grumman Road Landfill Client: Southern Company Data: Grumman Road Landfill

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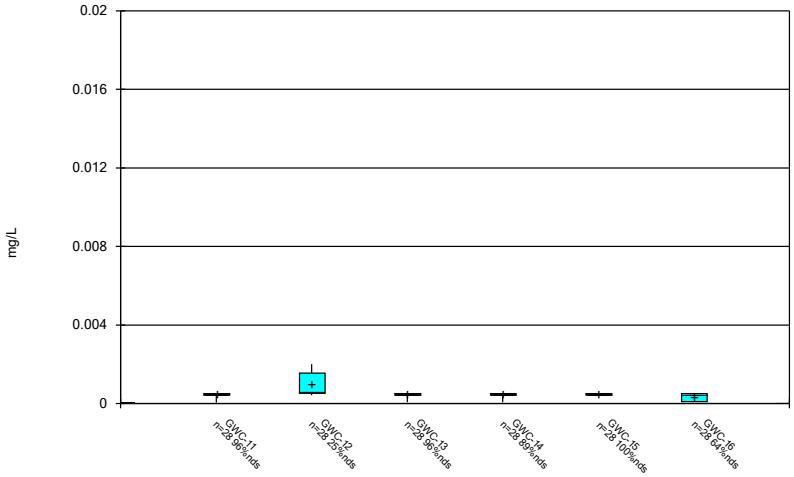
Box & Whiskers Plot



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Grumman Road Landfill Client: Southern Company Data: Grumman Road Landfill

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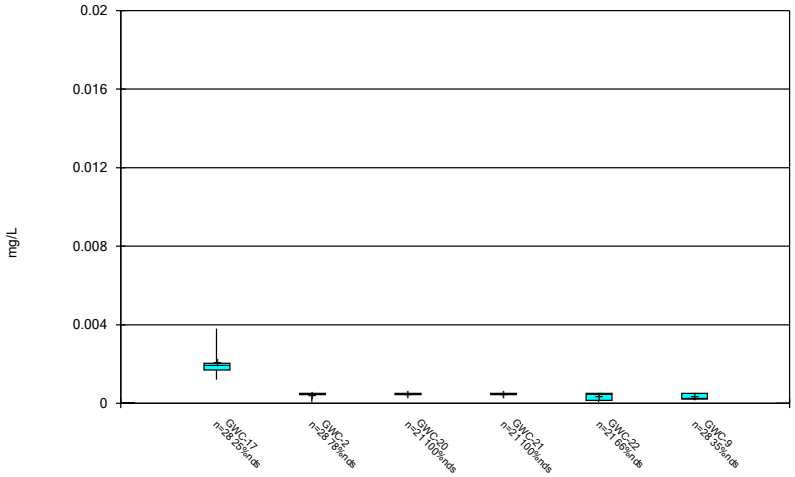
Box & Whiskers Plot



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Grumman Road Landfill Client: Southern Company Data: Grumman Road Landfill

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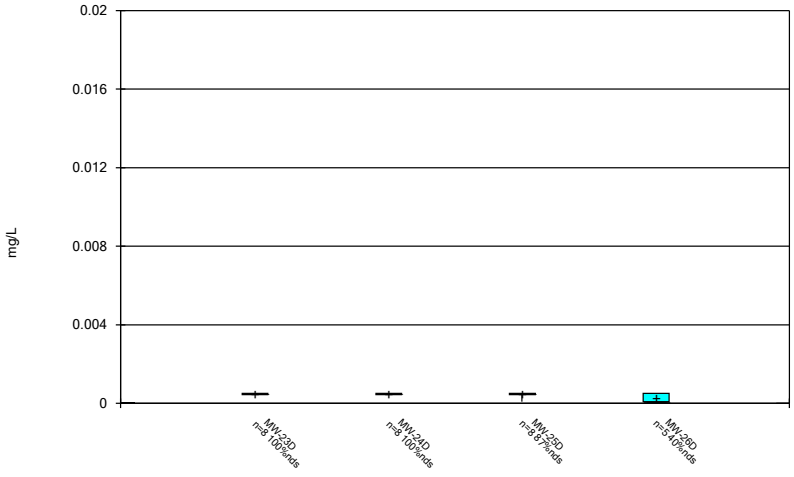
Box & Whiskers Plot



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Grumman Road Landfill Client: Southern Company Data: Grumman Road Landfill

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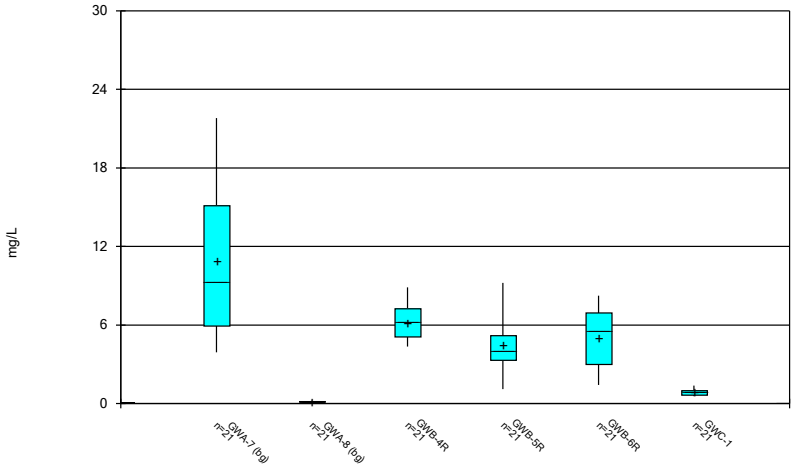
Box & Whiskers Plot



Constituent: Boron Analysis Run 12/12/2024 2:03 PM

Grumman Road Landfill Client: Southern Company Data: Grumman Road Landfill

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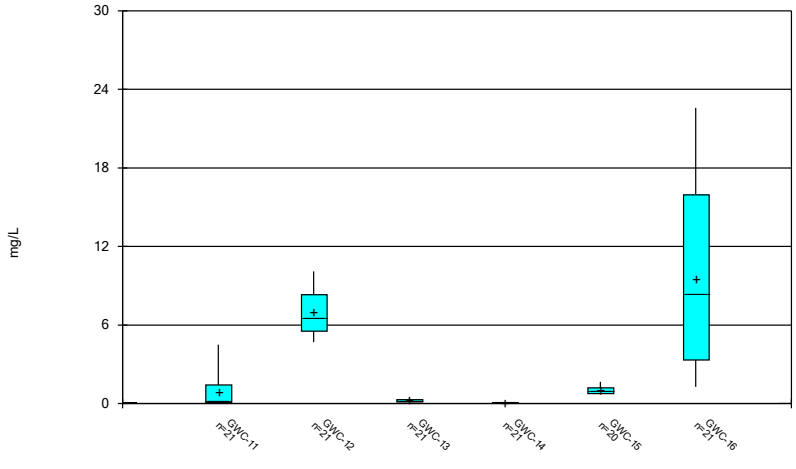
Box & Whiskers Plot



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Grumman Road Landfill Client: Southern Company Data: Grumman Road Landfill

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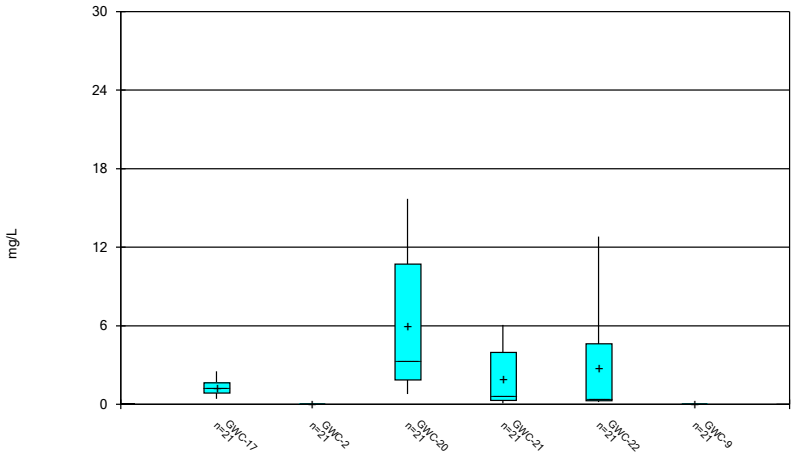
Box & Whiskers Plot



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Grumman Road Landfill Client: Southern Company Data: Grumman Road Landfill

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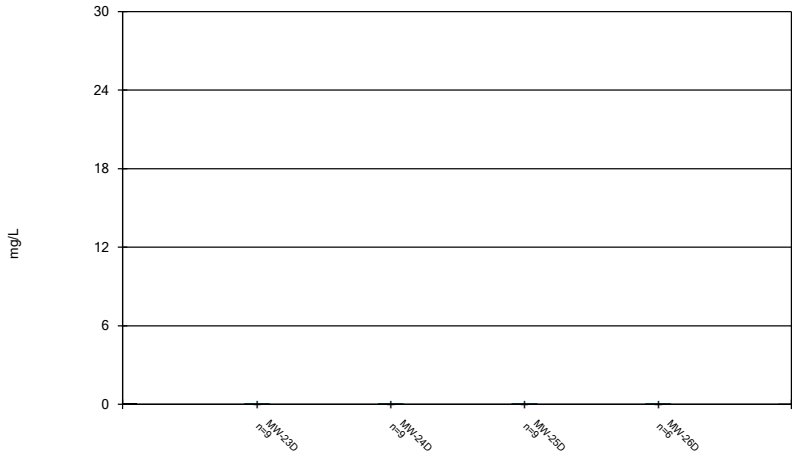
Box & Whiskers Plot



Constituent: Boron Analysis Run 12/12/2024 2:03 PM

Grumman Road Landfill Client: Southern Company Data: Grumman Road Landfill

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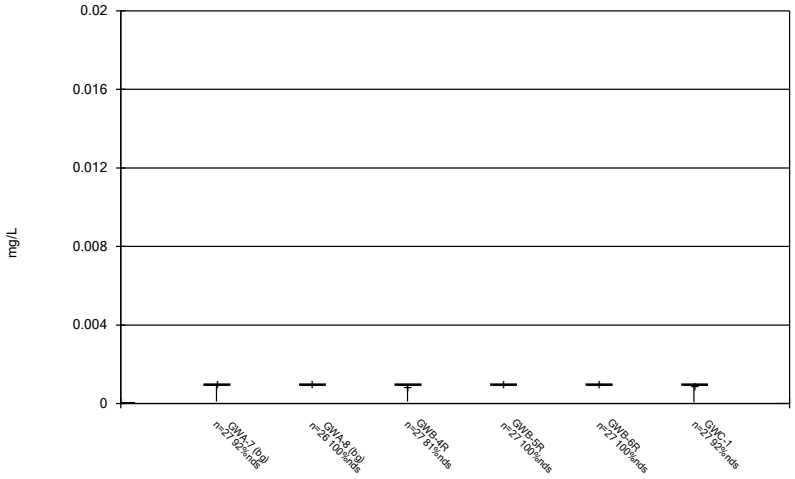
Box & Whiskers Plot



Constituent: Cadmium Analysis Run 12/12/2024 2:03 PM

Grumman Road Landfill Client: Southern Company Data: Grumman Road Landfill

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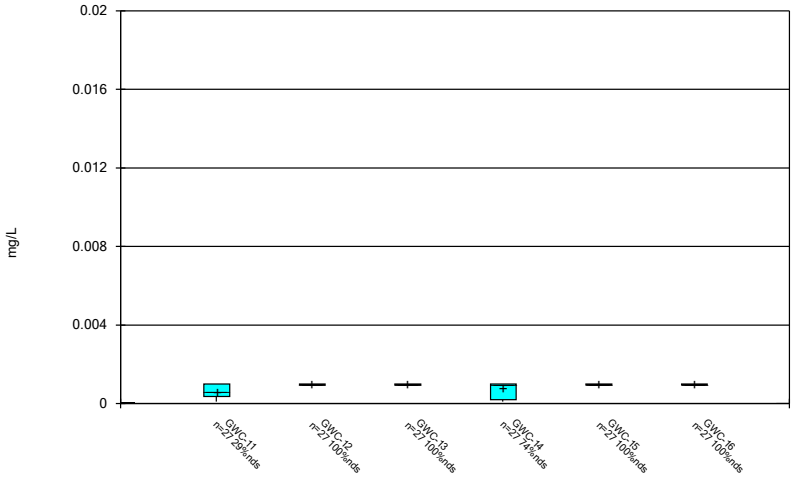
Box & Whiskers Plot



Constituent: Cadmium Analysis Run 12/12/2024 2:03 PM

Grumman Road Landfill Client: Southern Company Data: Grumman Road Landfill

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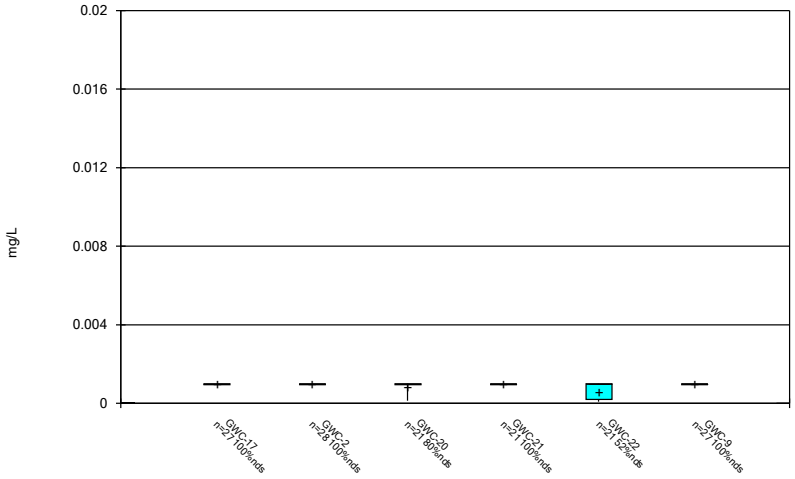
Box & Whiskers Plot



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Grumman Road Landfill Client: Southern Company Data: Grumman Road Landfill

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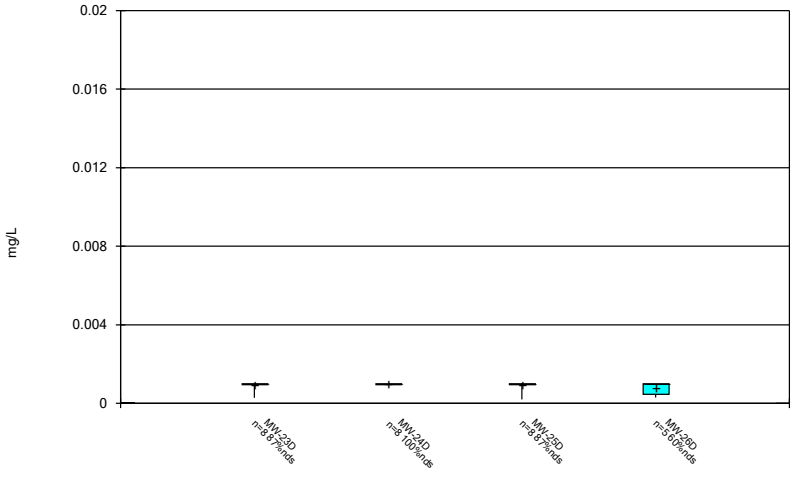
Box & Whiskers Plot



Constituent: Cadmium Analysis Run 12/12/2024 2:03 PM

Grumman Road Landfill Client: Southern Company Data: Grumman Road Landfill

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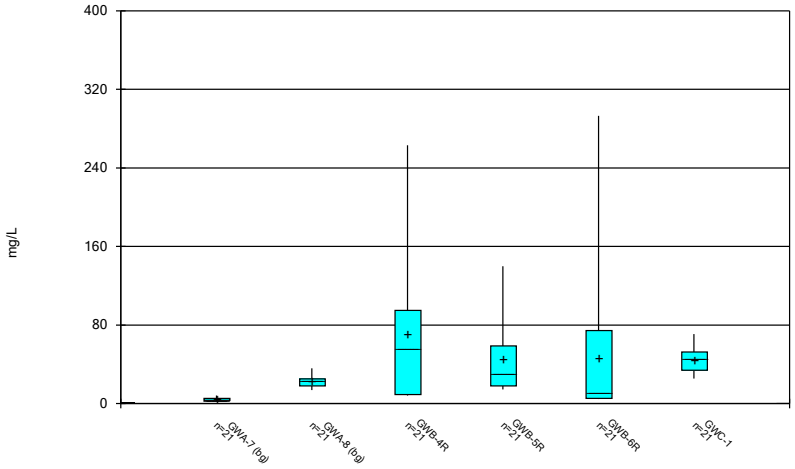
Box & Whiskers Plot



Constituent: Calcium Analysis Run 12/12/2024 2:03 PM

Grumman Road Landfill Client: Southern Company Data: Grumman Road Landfill

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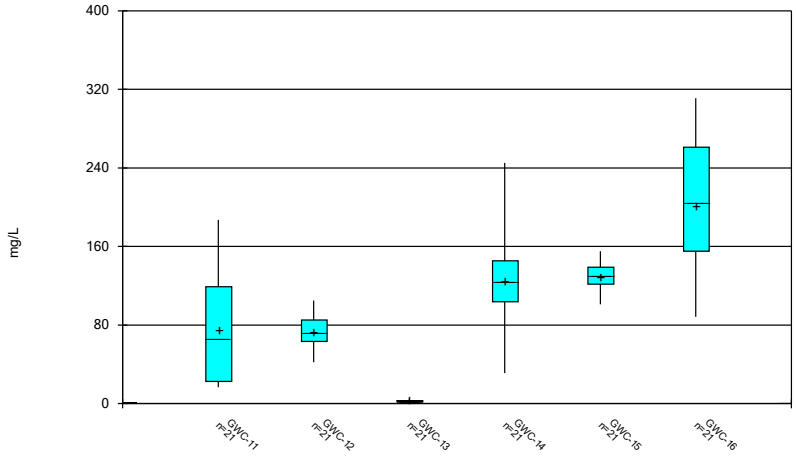
Box & Whiskers Plot



Constituent: Calcium Analysis Run 12/12/2024 2:03 PM

Grumman Road Landfill Client: Southern Company Data: Grumman Road Landfill

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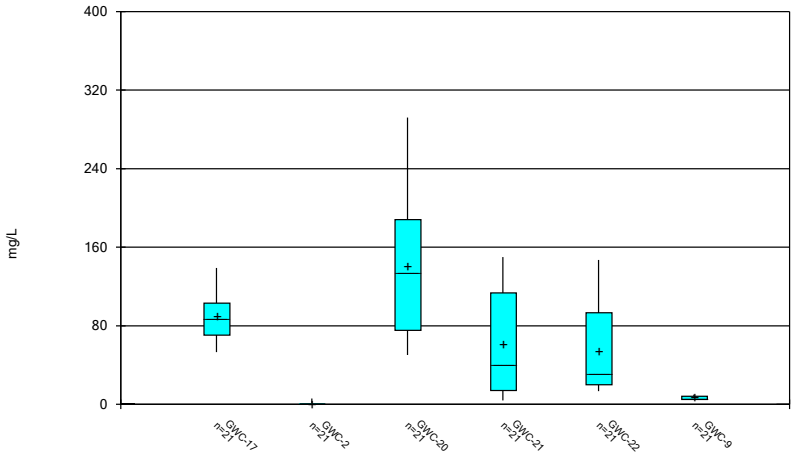
Box & Whiskers Plot



Constituent: Calcium Analysis Run 12/12/2024 2:03 PM

Grumman Road Landfill Client: Southern Company Data: Grumman Road Landfill

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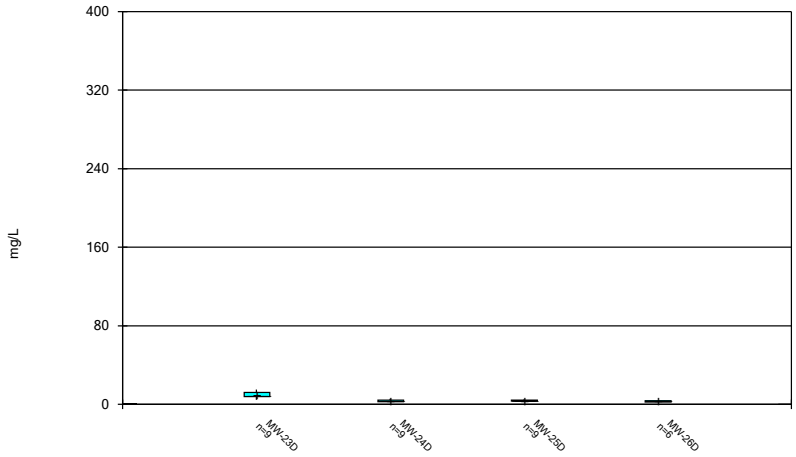
Box & Whiskers Plot



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Grumman Road Landfill Client: Southern Company Data: Grumman Road Landfill

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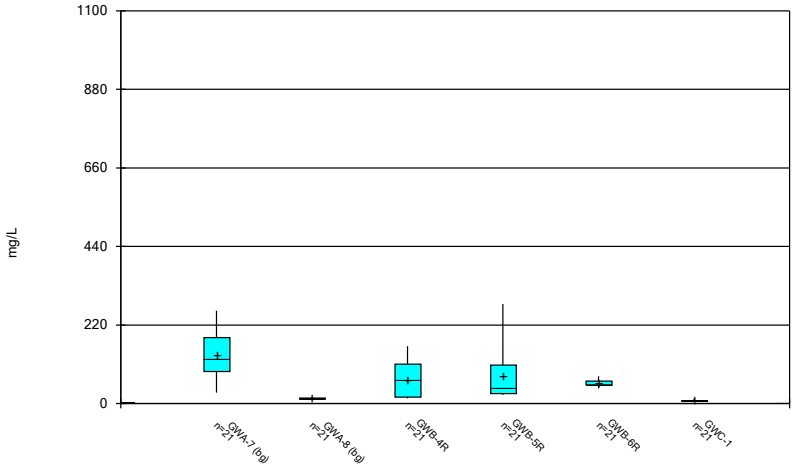
Box & Whiskers Plot



Constituent: Chloride Analysis Run 12/12/2024 2:03 PM

Grumman Road Landfill Client: Southern Company Data: Grumman Road Landfill

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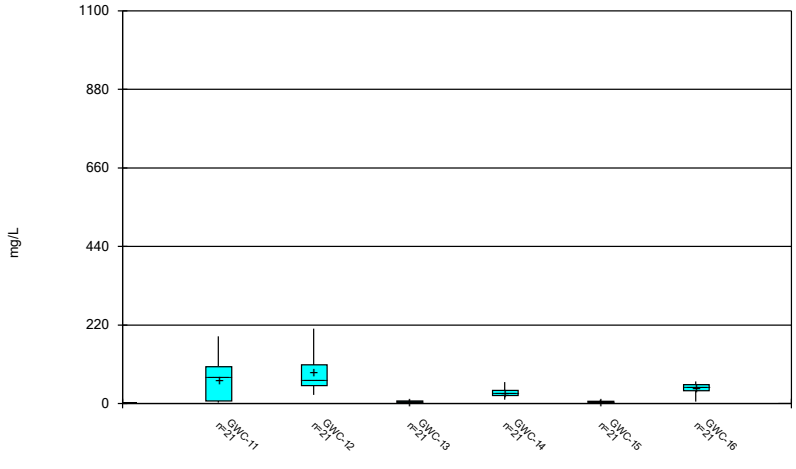
Box & Whiskers Plot



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Grumman Road Landfill Client: Southern Company Data: Grumman Road Landfill

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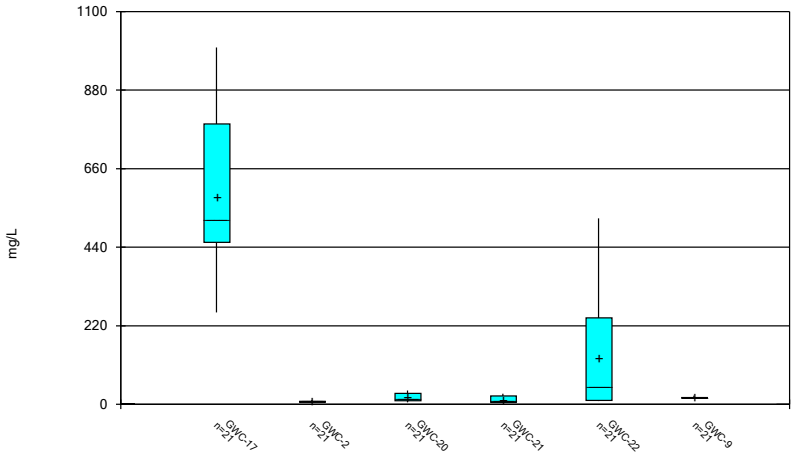
Box & Whiskers Plot



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Grumman Road Landfill Client: Southern Company Data: Grumman Road Landfill

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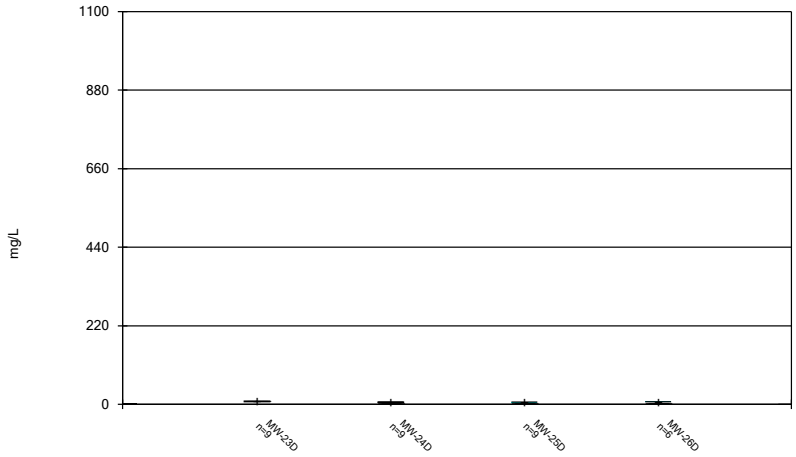
Box & Whiskers Plot



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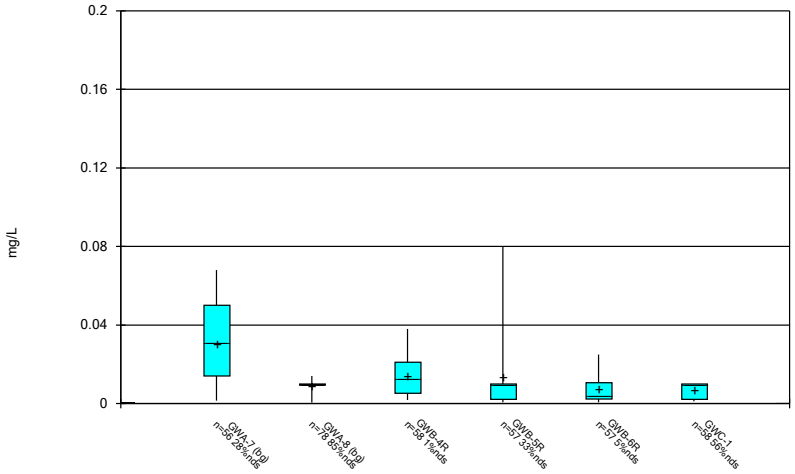
Box & Whiskers Plot



Constituent: Chromium Analysis Run 12/12/2024 2:03 PM

Grumman Road Landfill Client: Southern Company Data: Grumman Road Landfill

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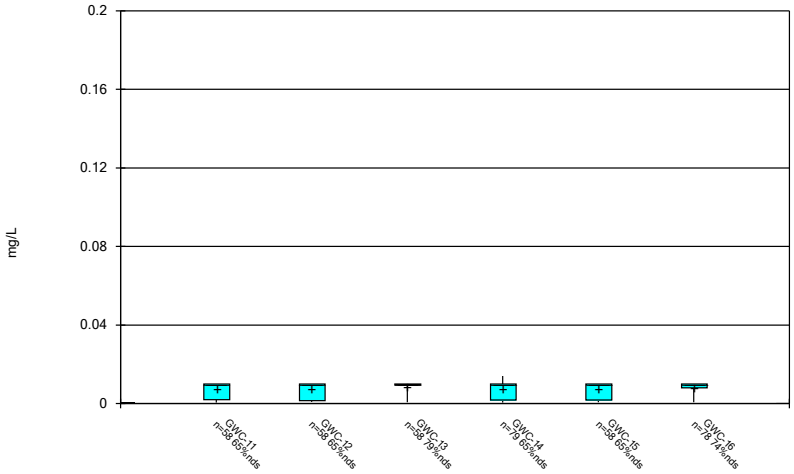
Box & Whiskers Plot



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Grumman Road Landfill Client: Southern Company Data: Grumman Road Landfill

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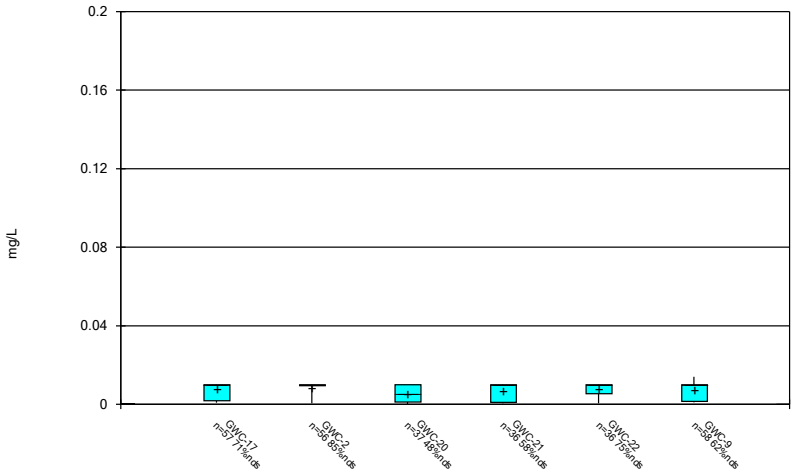
Box & Whiskers Plot



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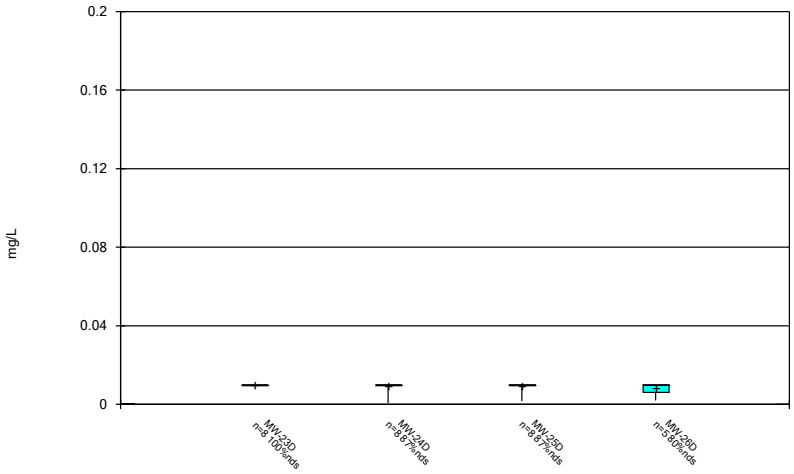
Box & Whiskers Plot



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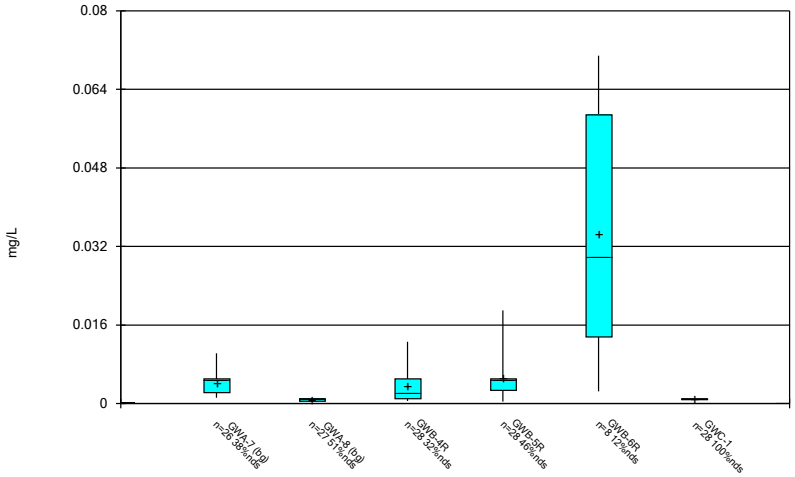
Box & Whiskers Plot



Constituent: Cobalt Analysis Run 12/12/2024 2:03 PM

Grumman Road Landfill Client: Southern Company Data: Grumman Road Landfill

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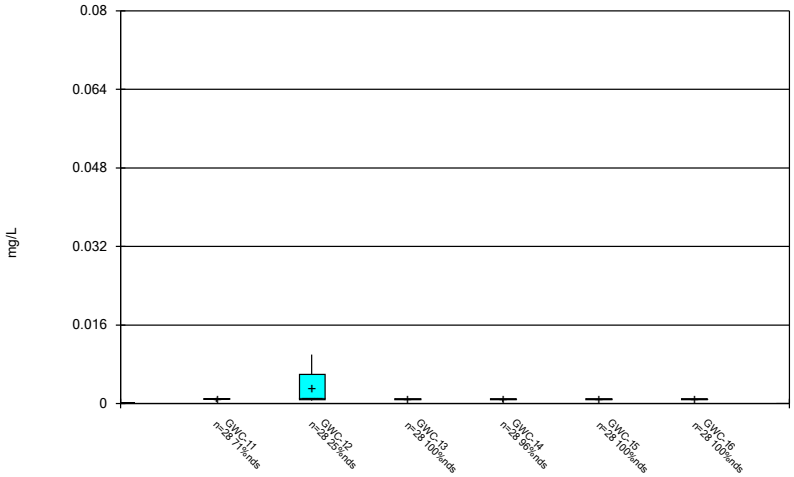
Box & Whiskers Plot



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Grumman Road Landfill Client: Southern Company Data: Grumman Road Landfill

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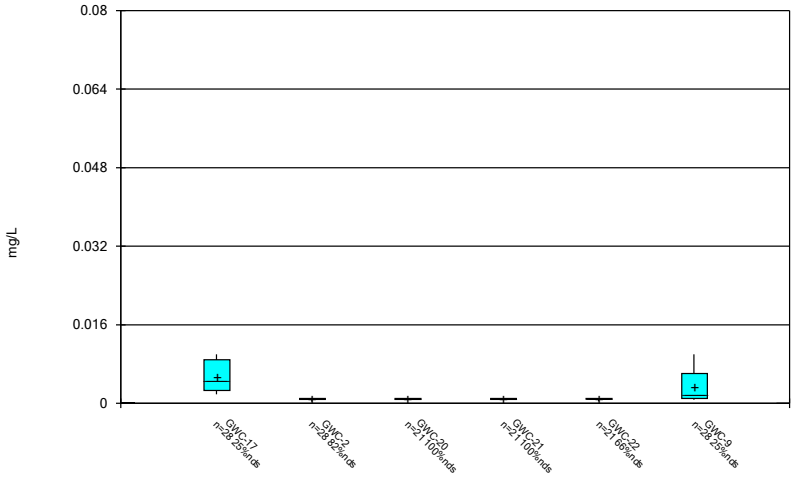
Box & Whiskers Plot



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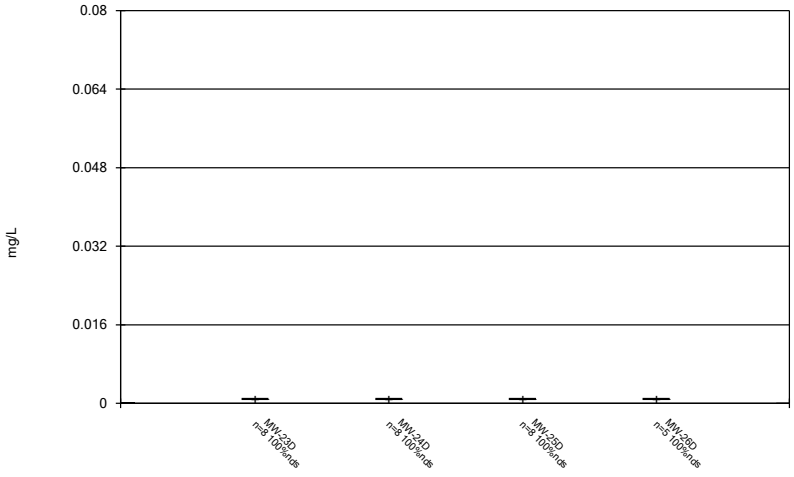

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Grumman Road Landfill Client: Southern Company Data: Grumman Road Landfill

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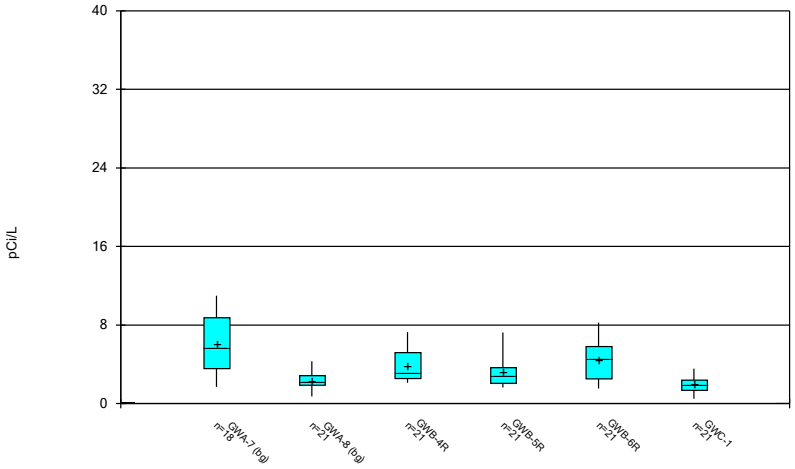
Box & Whiskers Plot



Constituent: Combined Radium 226 + 228 Analysis Run 12/12/2024 2:03 PM
Grumman Road Landfill Client: Southern Company Data: Grumman Road Landfill

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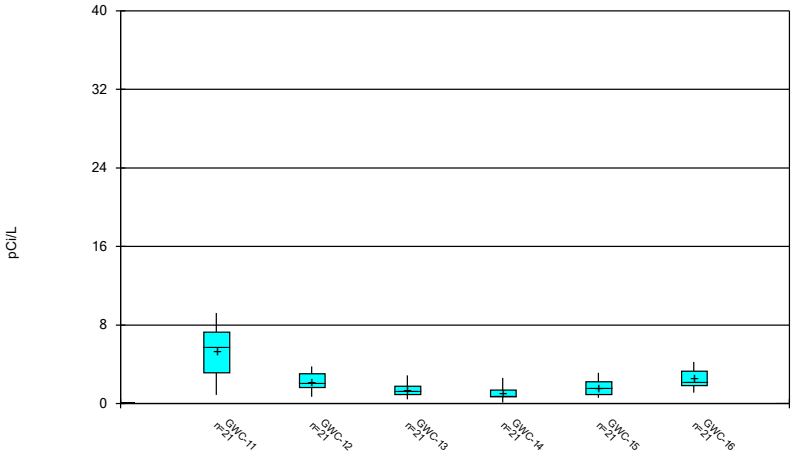
Box & Whiskers Plot



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Grumman Road Landfill Client: Southern Company Data: Grumman Road Landfill

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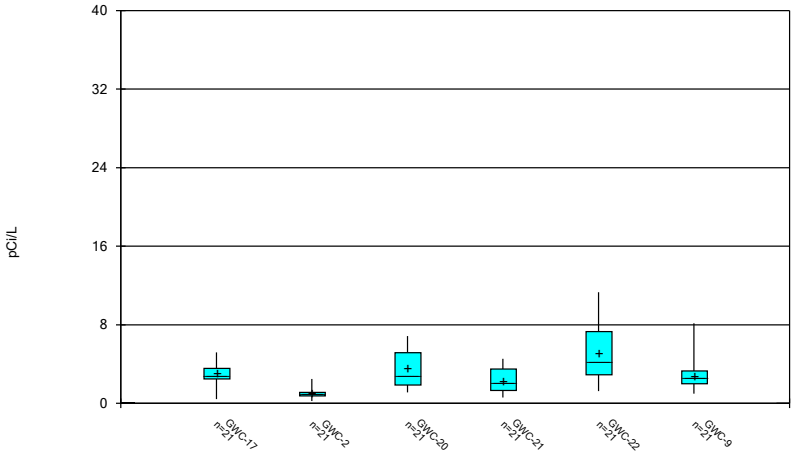
Box & Whiskers Plot



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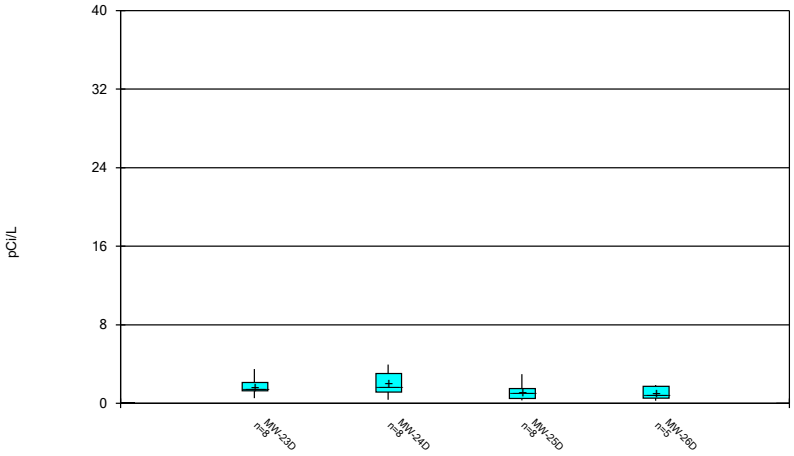
Box & Whiskers Plot



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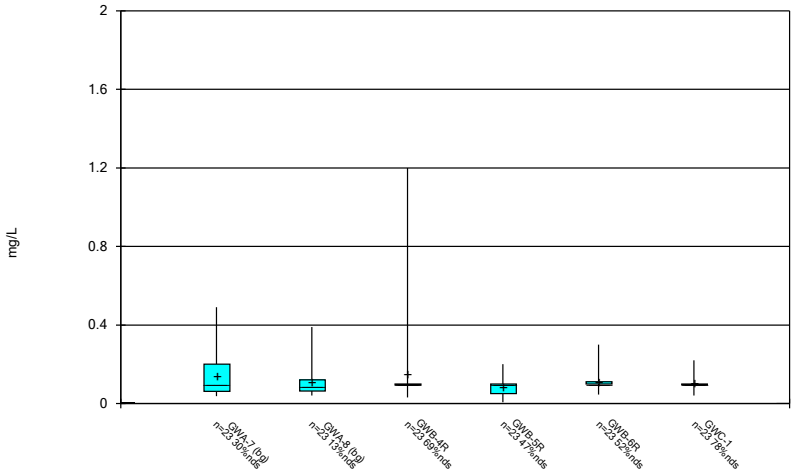
Box & Whiskers Plot



Constituent: Fluoride Analysis Run 12/12/2024 2:03 PM

Grumman Road Landfill Client: Southern Company Data: Grumman Road Landfill

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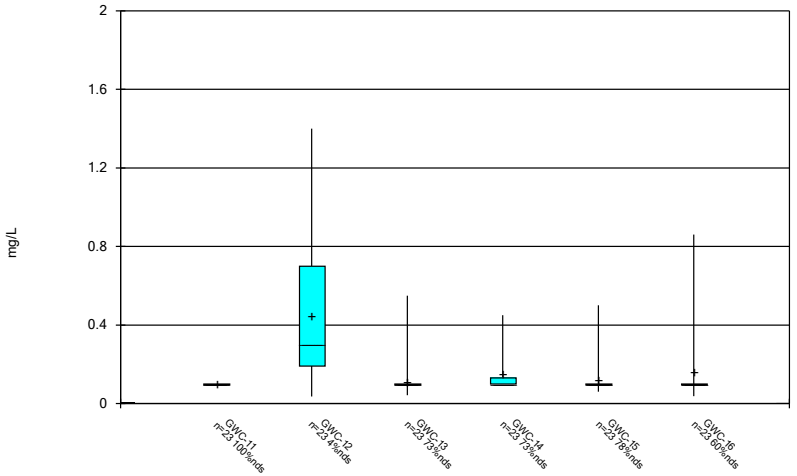
Box & Whiskers Plot



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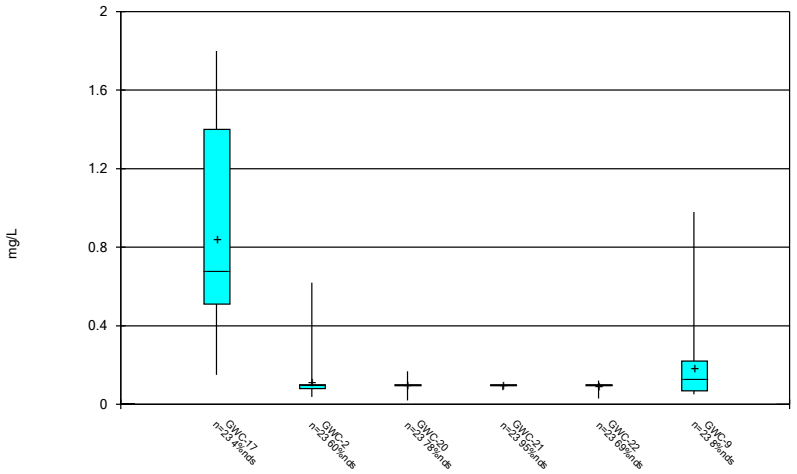

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Grumman Road Landfill Client: Southern Company Data: Grumman Road Landfill

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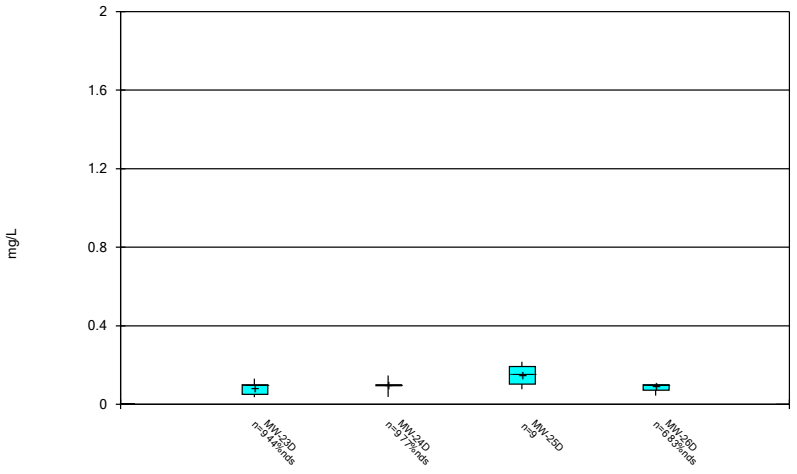

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Grumman Road Landfill Client: Southern Company Data: Grumman Road Landfill

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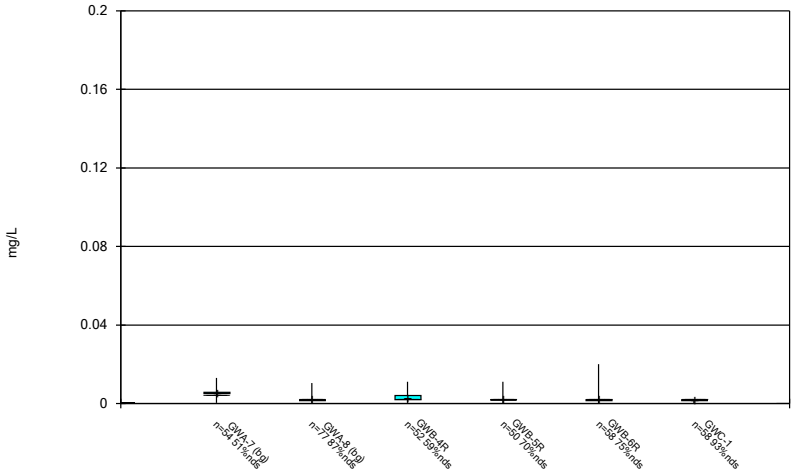
Box & Whiskers Plot



Constituent: Lead Analysis Run 12/12/2024 2:03 PM

Grumman Road Landfill Client: Southern Company Data: Grumman Road Landfill

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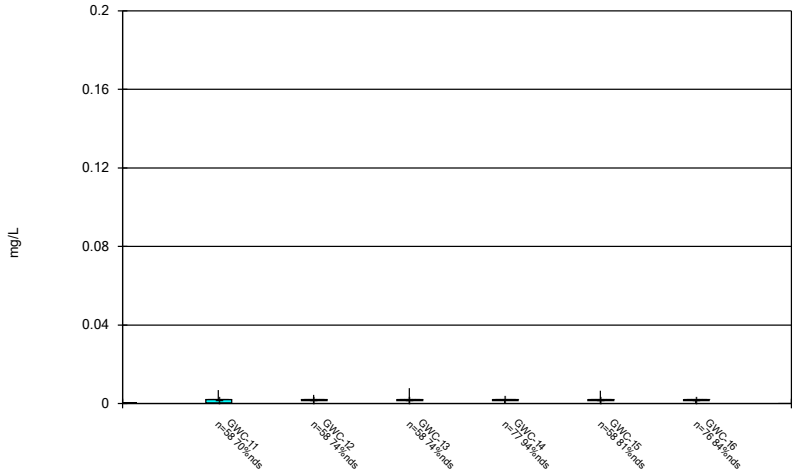
Box & Whiskers Plot



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Grumman Road Landfill Client: Southern Company Data: Grumman Road Landfill

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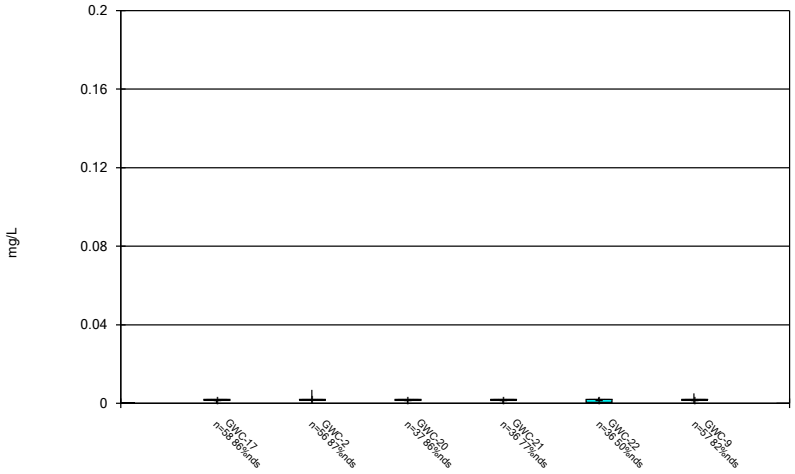
Box & Whiskers Plot



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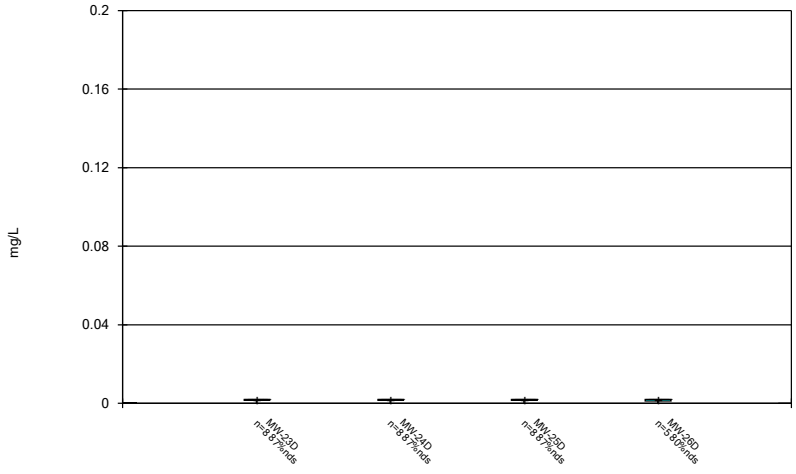
Box & Whiskers Plot



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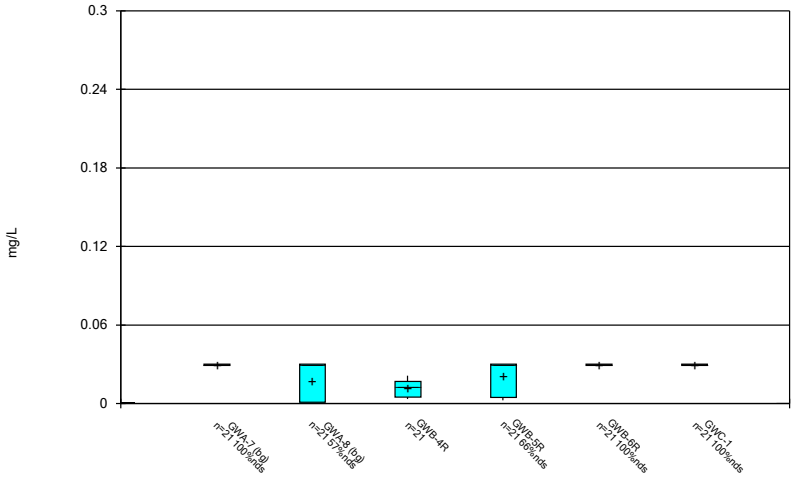

Constituent: Lithium Analysis Run 12/12/2024 2:03 PM

Grumman Road Landfill Client: Southern Company Data: Grumman Road Landfill

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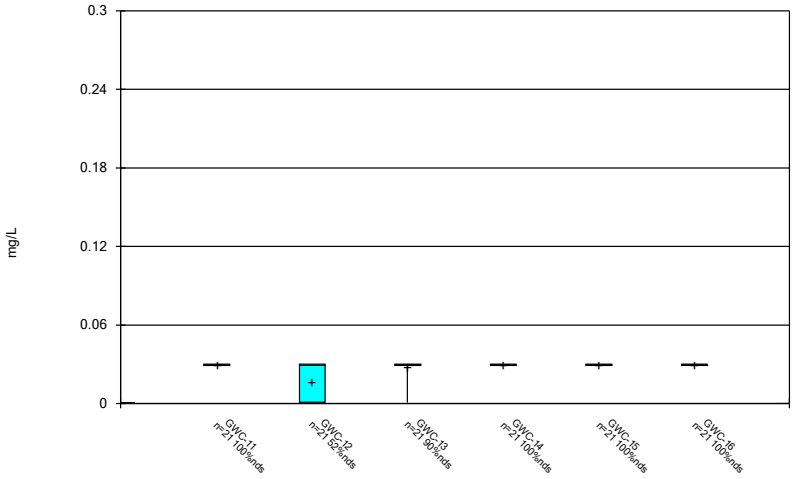
Box & Whiskers Plot



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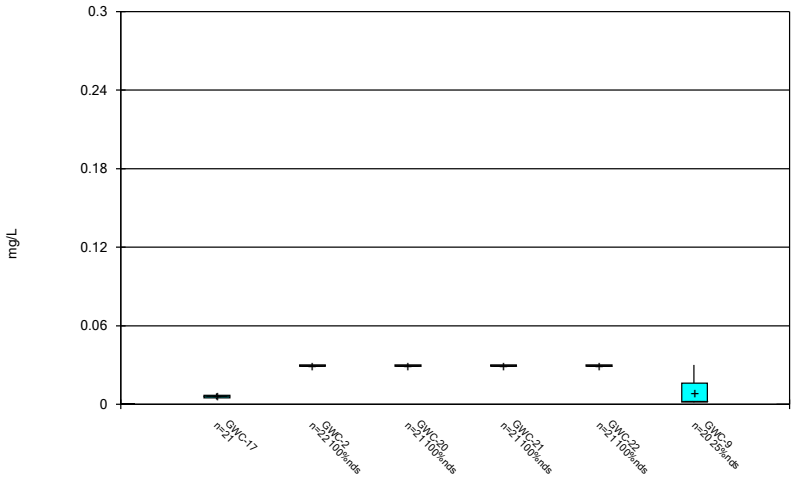
Box & Whiskers Plot



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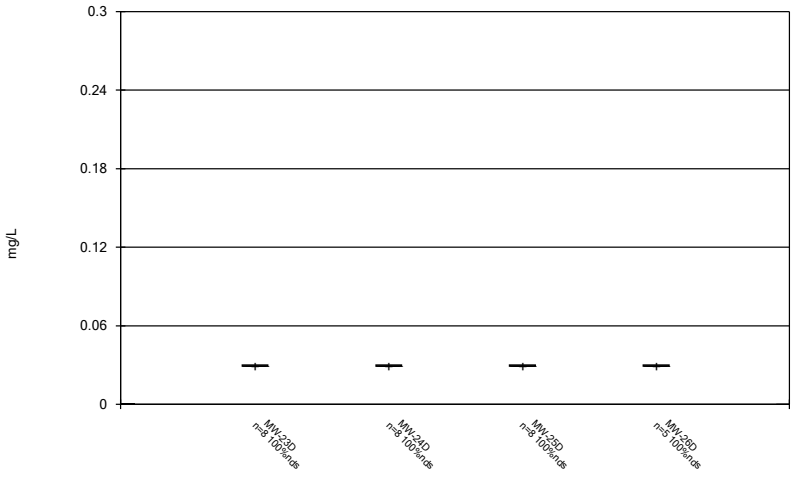
Box & Whiskers Plot



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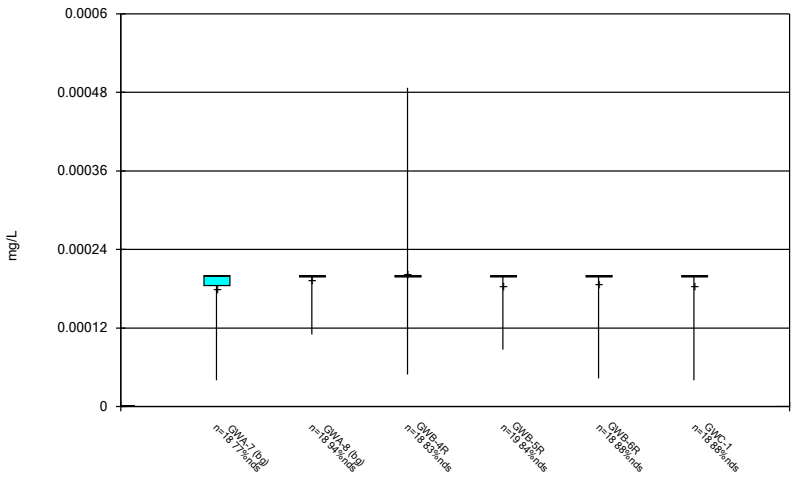

Constituent: Mercury Analysis Run 12/12/2024 2:03 PM

Grumman Road Landfill Client: Southern Company Data: Grumman Road Landfill

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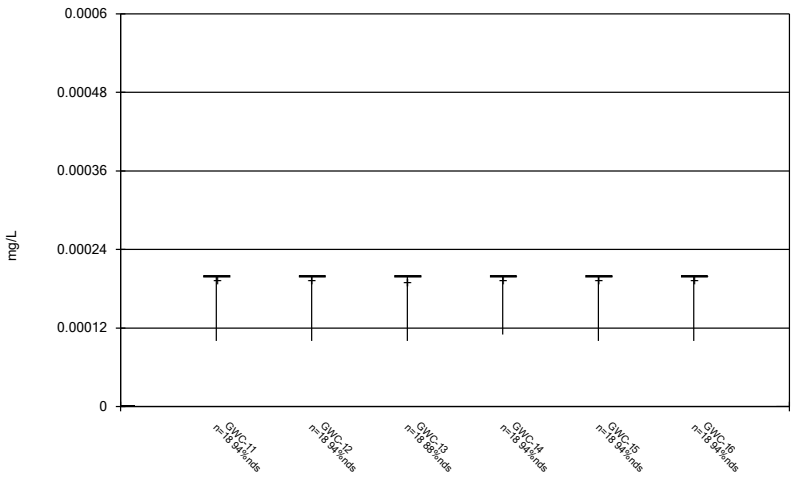
Box & Whiskers Plot



Constituent: Mercury Analysis Run 12/12/2024 2:03 PM

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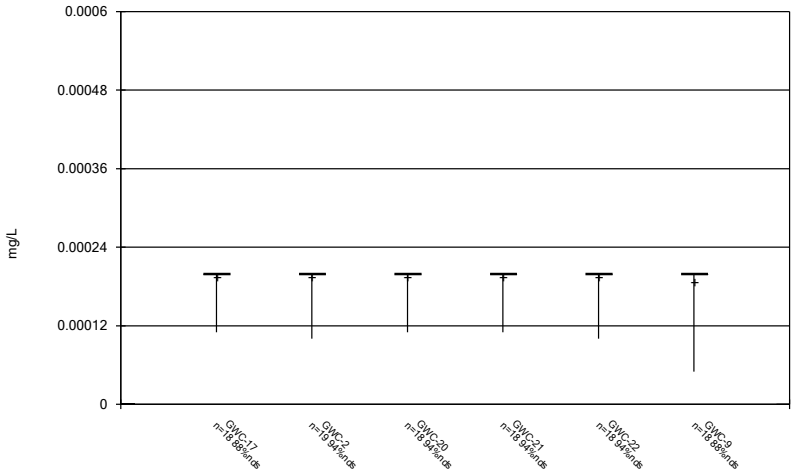

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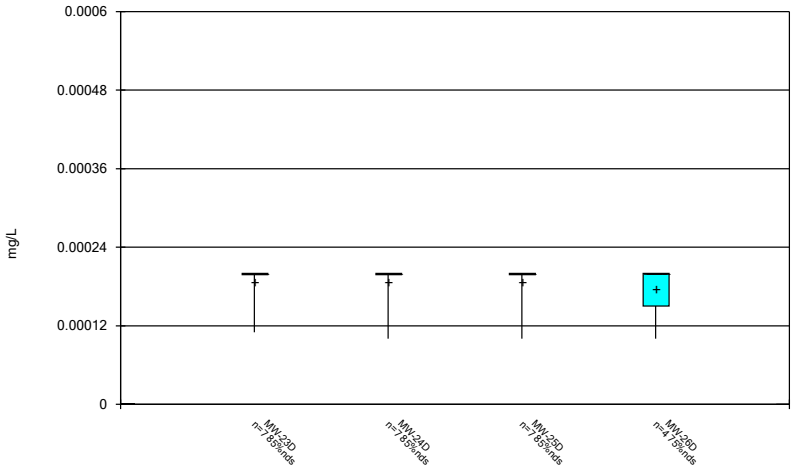

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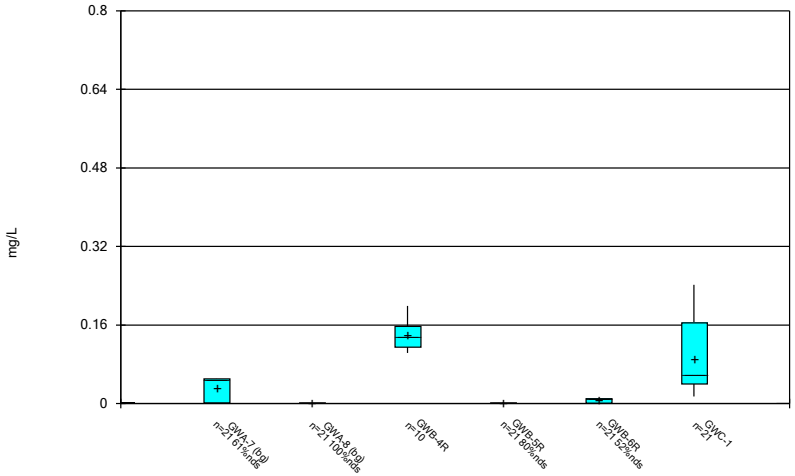

Constituent: Molybdenum Analysis Run 12/12/2024 2:03 PM

Grumman Road Landfill Client: Southern Company Data: Grumman Road Landfill

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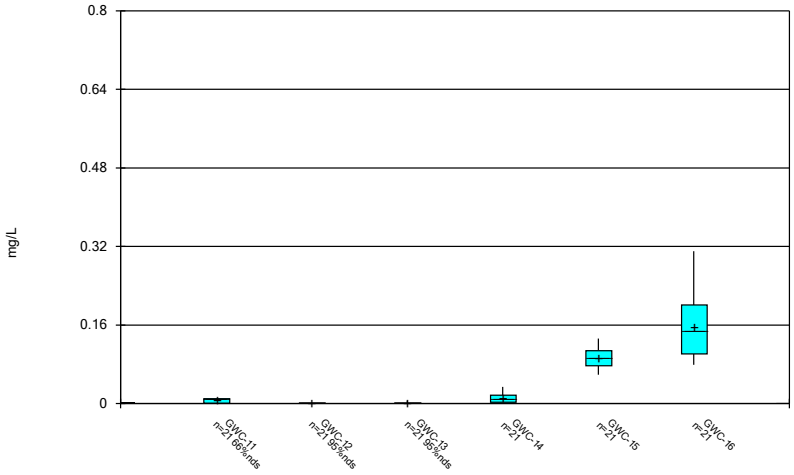

Constituent: Molybdenum Analysis Run 12/12/2024 2:03 PM

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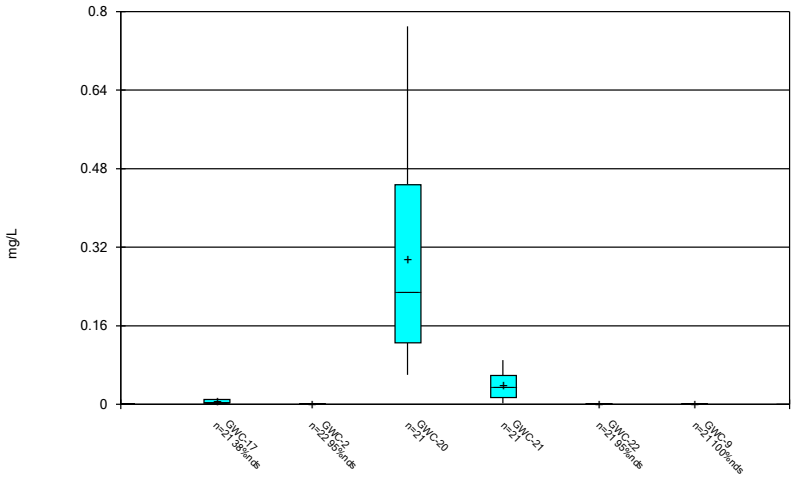

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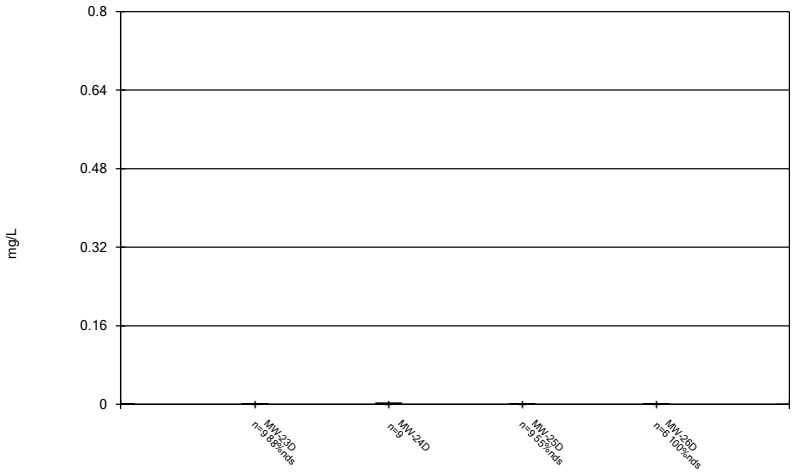
Box & Whiskers Plot



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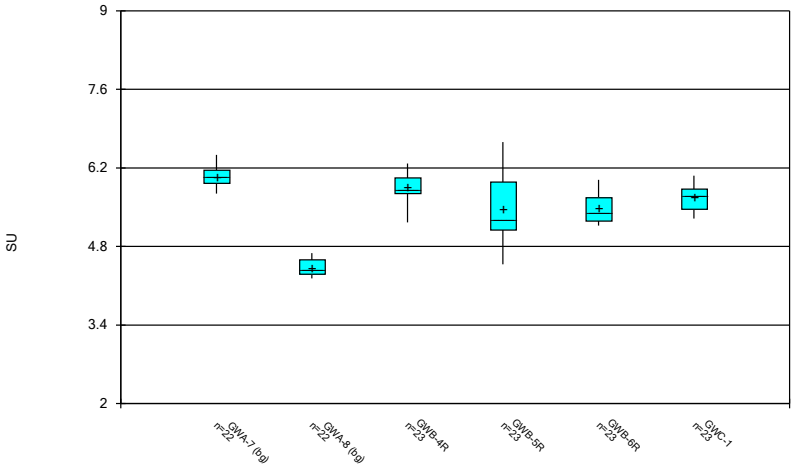
Box & Whiskers Plot



Constituent: pH Analysis Run 12/12/2024 2:03 PM

Grumman Road Landfill Client: Southern Company Data: Grumman Road Landfill

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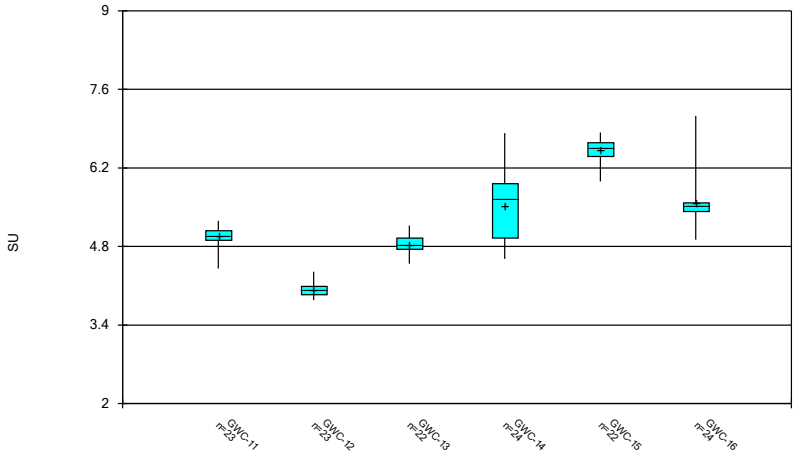
Box & Whiskers Plot

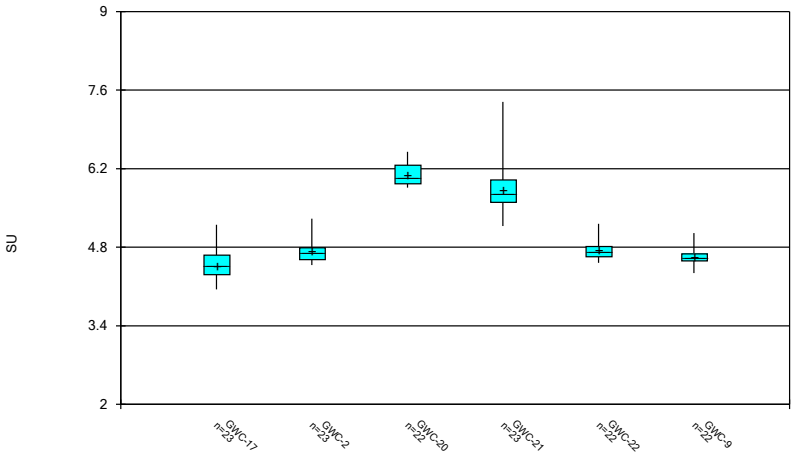


Constituent: pH Analysis Run 12/12/2024 2:03 PM

Grumman Road Landfill Client: Southern Company Data: Grumman Road Landfill

Sanitas™ v.10.0.23a Software licensed to Groundwater Stats Consulting. UG

Box & Whiskers Plot



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Grumman Road Landfill Client: Southern Company Data: Grumman Road Landfill

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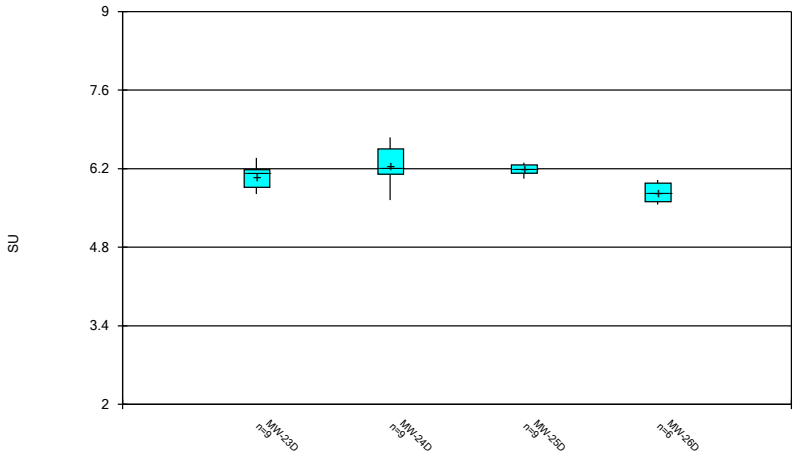
Box & Whiskers Plot

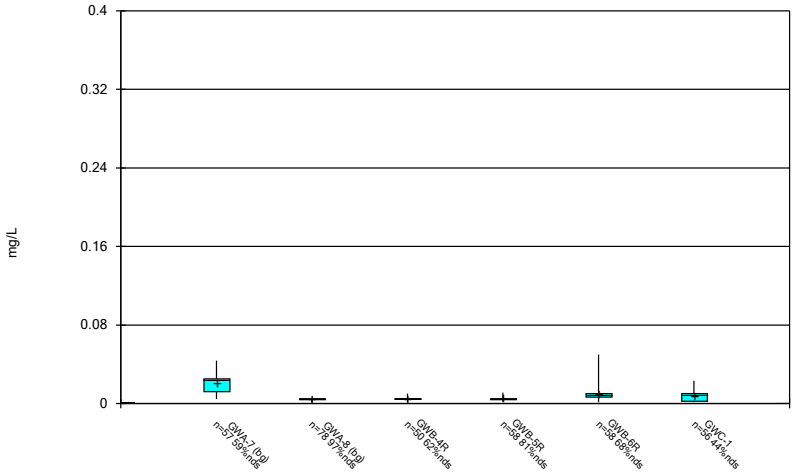


Constituent: pH Analysis Run 12/12/2024 2:03 PM

Grumman Road Landfill Client: Southern Company Data: Grumman Road Landfill

Sanitas™ v.10.0.23a Software licensed to Groundwater Stats Consulting. UG

Box & Whiskers Plot



Constituent: Selenium Analysis Run 12/12/2024 2:03 PM

Grumman Road Landfill Client: Southern Company Data: Grumman Road Landfill

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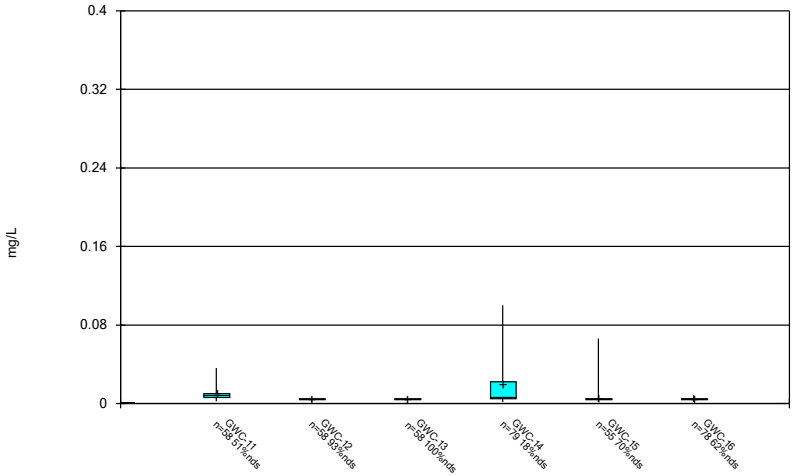
Box & Whiskers Plot

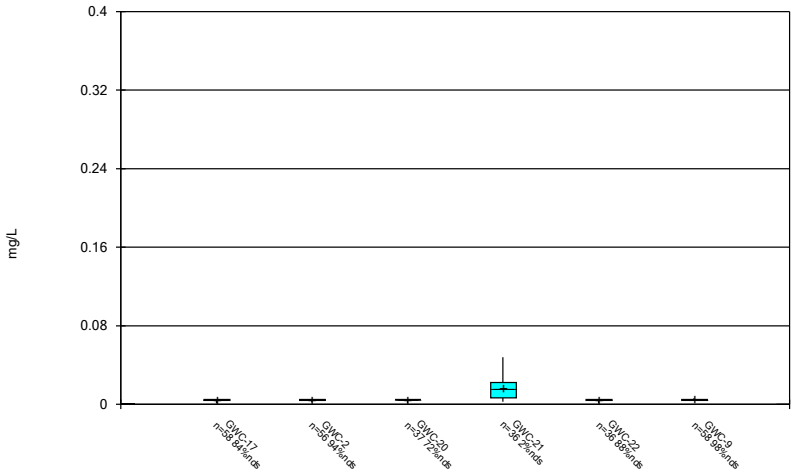


Constituent: Selenium Analysis Run 12/12/2024 2:03 PM

Grumman Road Landfill Client: Southern Company Data: Grumman Road Landfill

Sanitas™ v.10.0.23a Software licensed to Groundwater Stats Consulting. UG

Box & Whiskers Plot

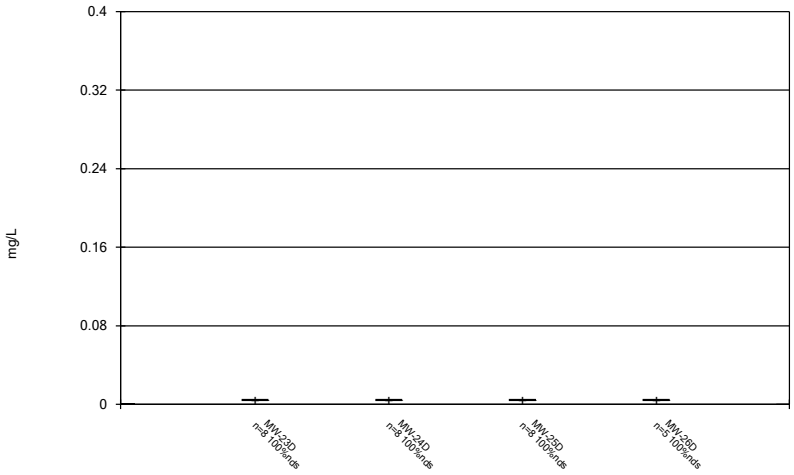


Constituent: Selenium Analysis Run 12/12/2024 2:03 PM

Grumman Road Landfill Client: Southern Company Data: Grumman Road Landfill

Sanitas™ v.10.0.23a Software licensed to Groundwater Stats Consulting. UG

Box & Whiskers Plot



Constituent: Selenium Analysis Run 12/12/2024 2:03 PM

Grumman Road Landfill Client: Southern Company Data: Grumman Road Landfill

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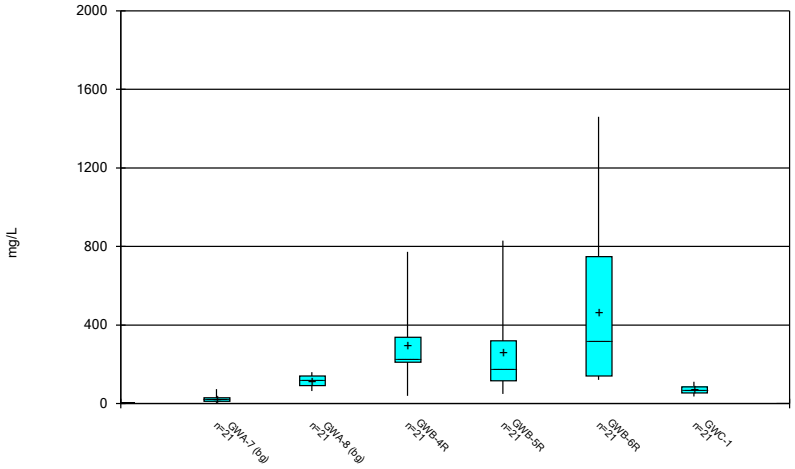
Box & Whiskers Plot



Constituent: Sulfate Analysis Run 12/12/2024 2:03 PM

Grumman Road Landfill Client: Southern Company Data: Grumman Road Landfill

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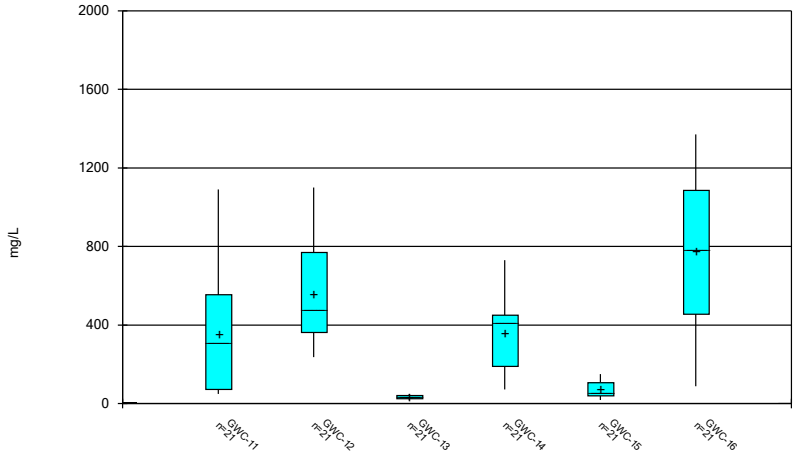
Box & Whiskers Plot



Constituent: Sulfate Analysis Run 12/12/2024 2:03 PM

Grumman Road Landfill Client: Southern Company Data: Grumman Road Landfill

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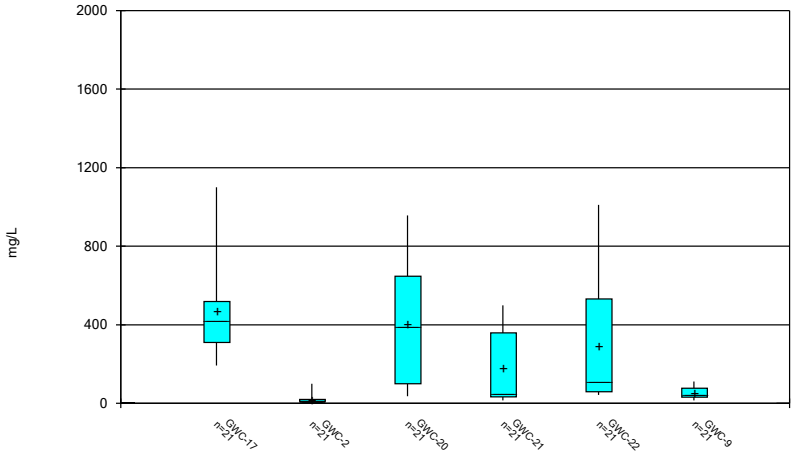
Box & Whiskers Plot



Constituent: Sulfate Analysis Run 12/12/2024 2:03 PM

Grumman Road Landfill Client: Southern Company Data: Grumman Road Landfill

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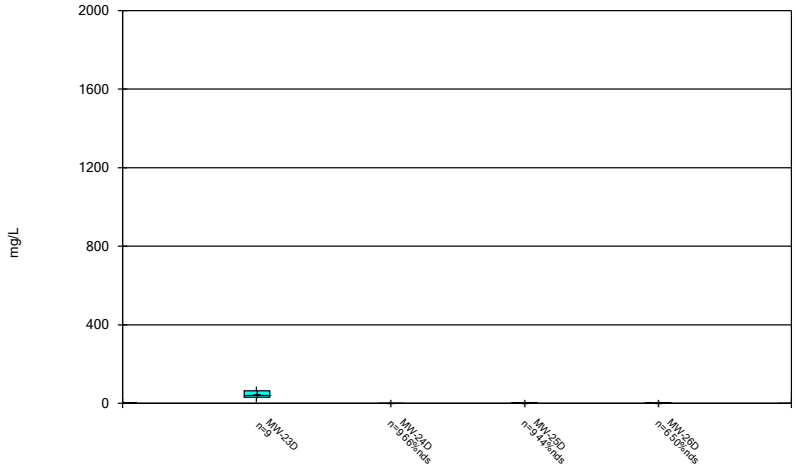
Box & Whiskers Plot



Constituent: Sulfate Analysis Run 12/12/2024 2:04 PM

Grumman Road Landfill Client: Southern Company Data: Grumman Road Landfill

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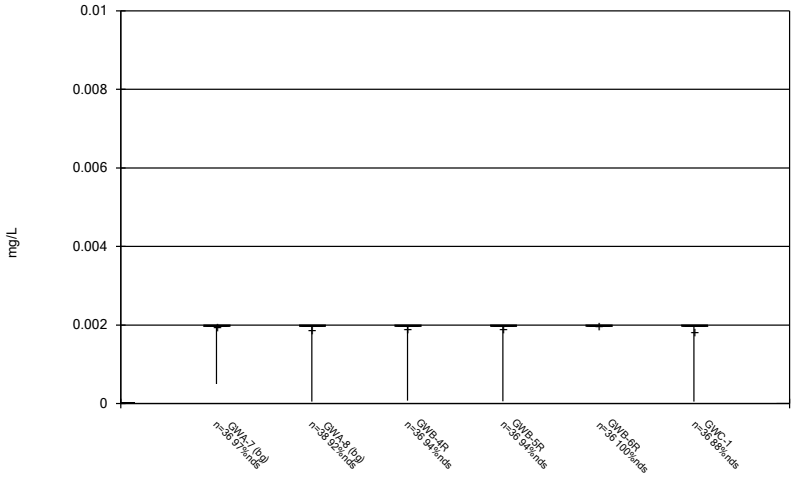
Box & Whiskers Plot



Constituent: Thallium Analysis Run 12/12/2024 2:04 PM

Grumman Road Landfill Client: Southern Company Data: Grumman Road Landfill

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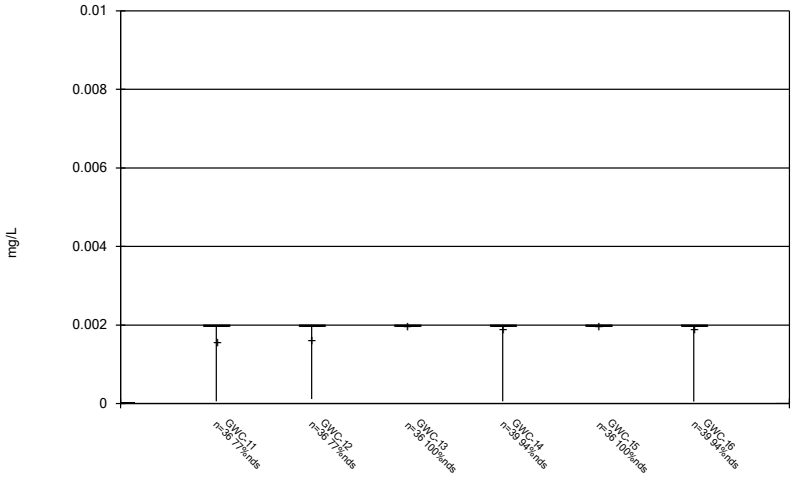
Box & Whiskers Plot



Constituent: Thallium Analysis Run 12/12/2024 2:04 PM

Grumman Road Landfill Client: Southern Company Data: Grumman Road Landfill

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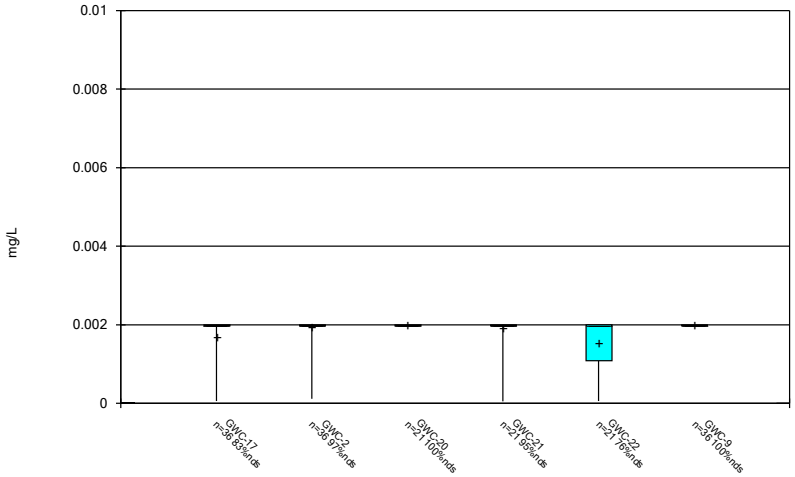
Box & Whiskers Plot



Constituent: Thallium Analysis Run 12/12/2024 2:04 PM

Grumman Road Landfill Client: Southern Company Data: Grumman Road Landfill

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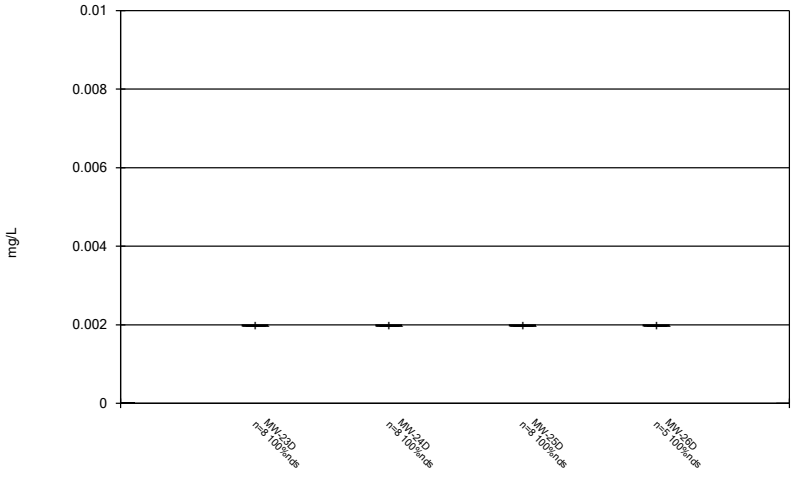
Box & Whiskers Plot



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Grumman Road Landfill Client: Southern Company Data: Grumman Road Landfill

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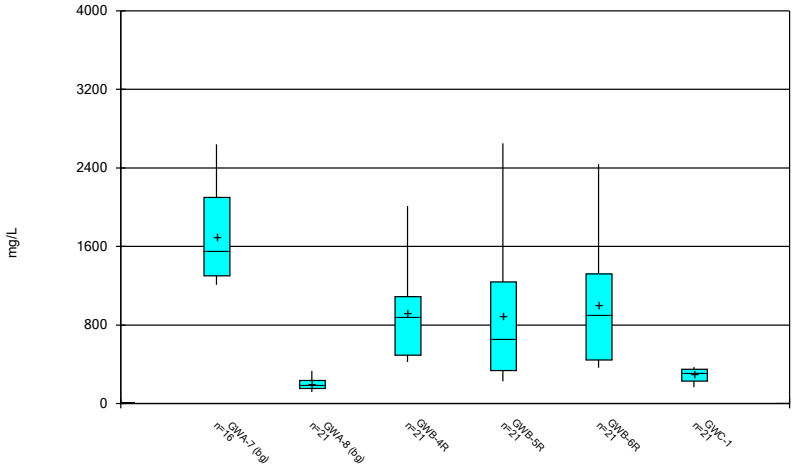
Box & Whiskers Plot



Constituent: Total Dissolved Solids Analysis Run 12/12/2024 2:04 PM
Grumman Road Landfill Client: Southern Company Data: Grumman Road Landfill

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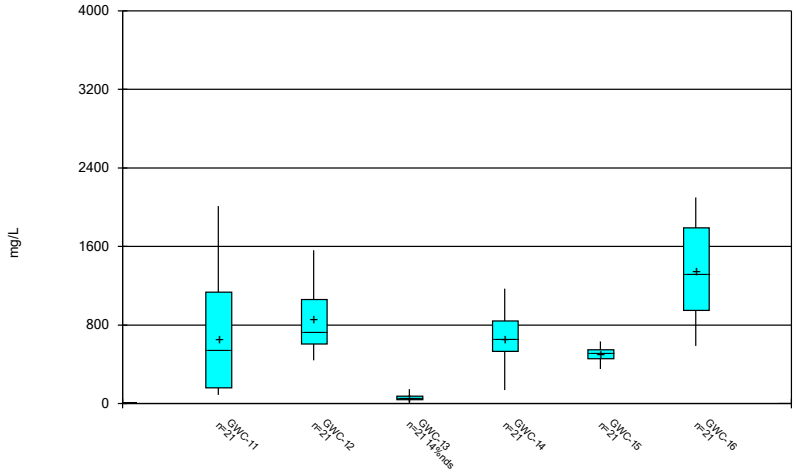
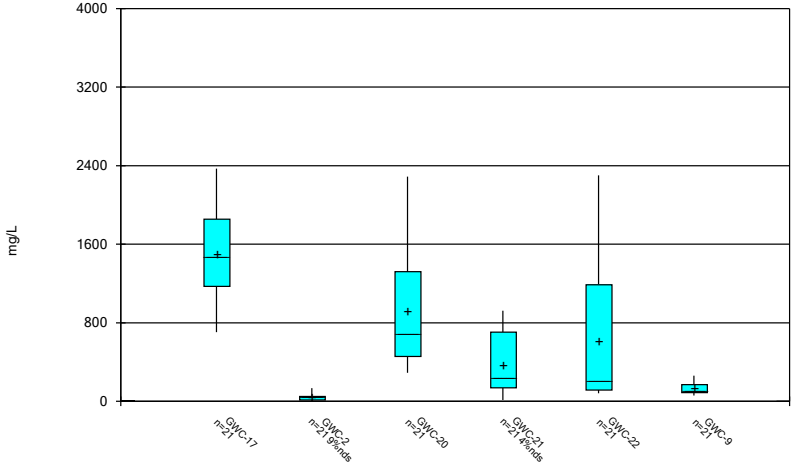
Box & Whiskers Plot



Constituent: Total Dissolved Solids Analysis Run 12/12/2024 2:04 PM
Grumman Road Landfill Client: Southern Company Data: Grumman Road Landfill

Sanitas™ v.10.0.23a Software licensed to Groundwater Stats Consulting. UG

Box & Whiskers Plot



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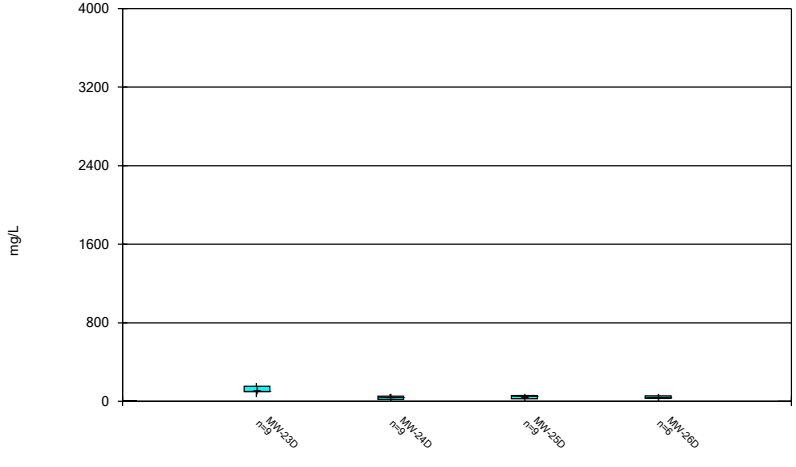
Grumman Road Landfill Client: Southern Company Data: Grumman Road Landfill

Sanitas™ v.10.0.23a Software licensed to Groundwater Stats Consulting. UG

Box & Whiskers Plot



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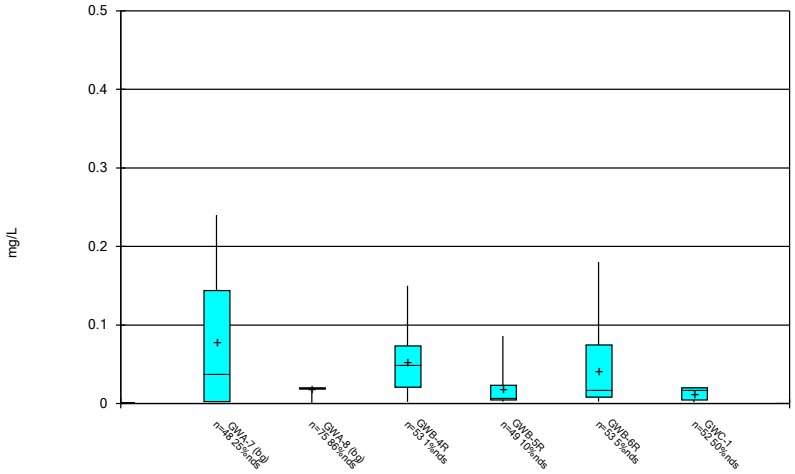
Grumman Road Landfill Client: Southern Company Data: Grumman Road Landfill

Sanitas™ v.10.0.23a Software licensed to Groundwater Stats Consulting. UG

Box & Whiskers Plot



Constituent: Vanadium Analysis Run 12/12/2024 2:04 PM

Grumman Road Landfill Client: Southern Company Data: Grumman Road Landfill

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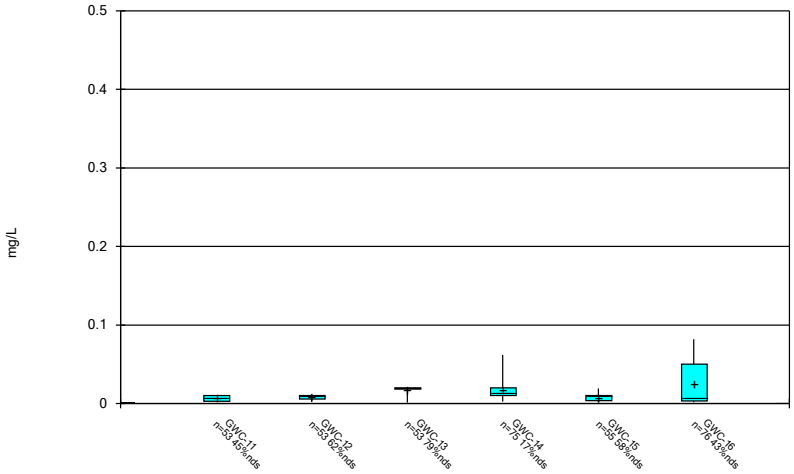
Box & Whiskers Plot



Constituent: Vanadium Analysis Run 12/12/2024 2:04 PM

Grumman Road Landfill Client: Southern Company Data: Grumman Road Landfill

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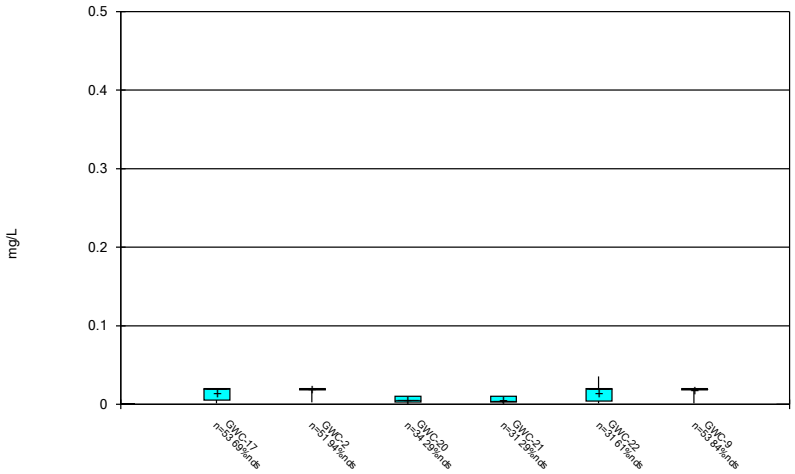
Box & Whiskers Plot



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Grumman Road Landfill Client: Southern Company Data: Grumman Road Landfill

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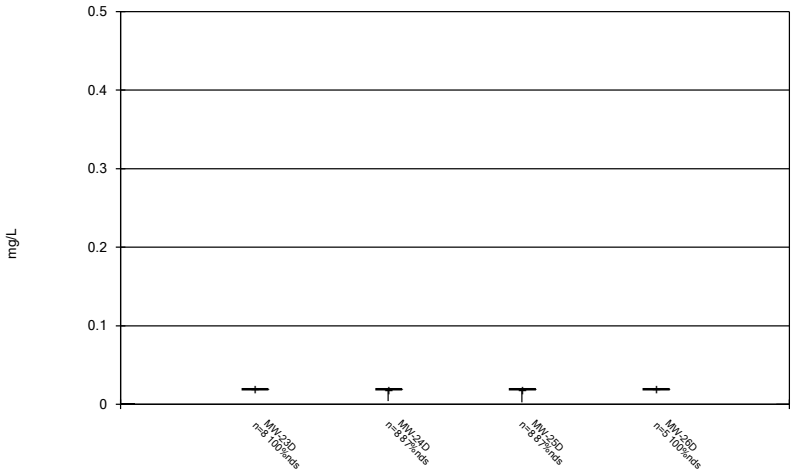
Box & Whiskers Plot



Constituent: Vanadium Analysis Run 12/12/2024 2:04 PM

Grumman Road Landfill Client: Southern Company Data: Grumman Road Landfill

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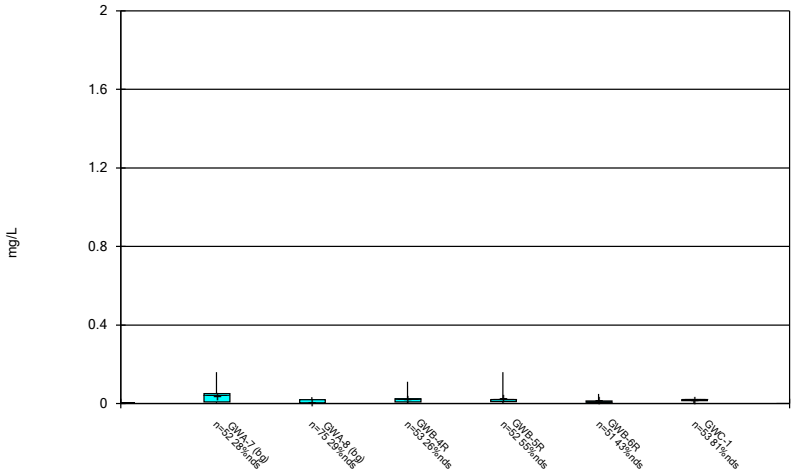
Box & Whiskers Plot



Constituent: Zinc Analysis Run 12/12/2024 2:04 PM

Grumman Road Landfill Client: Southern Company Data: Grumman Road Landfill

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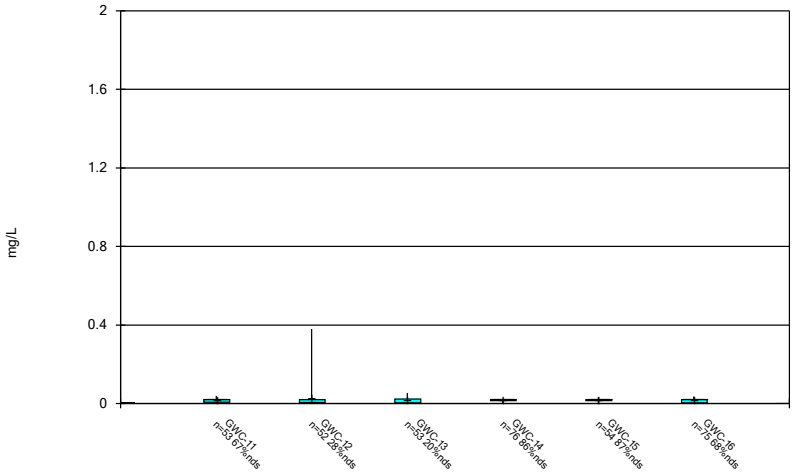
Box & Whiskers Plot

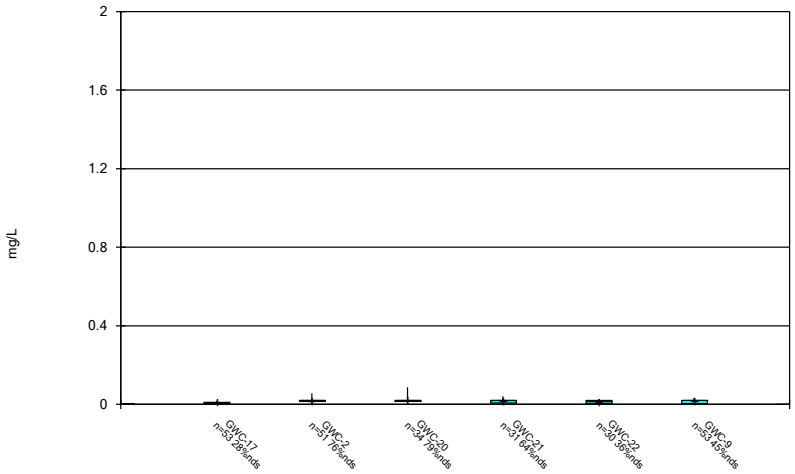


Constituent: Zinc Analysis Run 12/12/2024 2:04 PM

Grumman Road Landfill Client: Southern Company Data: Grumman Road Landfill

Sanitas™ v.10.0.23a Software licensed to Groundwater Stats Consulting. UG

Box & Whiskers Plot



Constituent: Zinc Analysis Run 12/12/2024 2:04 PM

Grumman Road Landfill Client: Southern Company Data: Grumman Road Landfill

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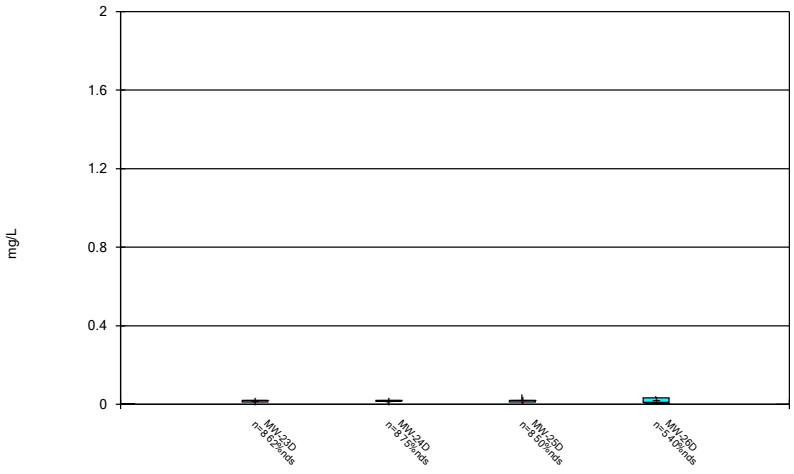
Box & Whiskers Plot



Constituent: Zinc Analysis Run 12/12/2024 2:04 PM

Grumman Road Landfill Client: Southern Company Data: Grumman Road Landfill

FIGURE C.

Outlier Summary

Grumman Road Landfill Client: Southern Company Data: Grumman Road Landfill Printed 12/12/2024, 2:07 PM

	GWC-16 Arsenic (mg/L)	GWA-7 Barium (mg/L)	GWB-5R Barium (mg/L)	GWC-12 Barium (mg/L)	GWC-14 Barium (mg/L)	GWC-16 Barium (mg/L)	GWC-2 Barium (mg/L)	GWC-15 Boron (mg/L)	GWA-7 Chromium (mg/L)	GWB-5R Chromium (mg/L)
9/29/2000										
1/20/2001										
3/14/2001										
7/16/2001					0.28 (O)					
11/1/2001			0.61 (O)							0.13 (O)
4/25/2002				0.24 (O)						
11/20/2002										
6/6/2003	1.2 (O)		0.72 (O)	0.28 (O)		0.48 (O)				
12/12/2003	0.27 (O)			0.27 (O)						
5/26/2004				0.31 (O)						
12/7/2004				0.46 (O)						
6/21/2005										
12/12/2005										
6/27/2006										
12/4/2006										
6/23/2007										
6/24/2008										
7/8/2011										
1/18/2013										
4/3/2014										
1/18/2016										
7/27/2016										
8/31/2016										
9/1/2016		0.415 (O)						9.01 (O)	0.119 (O)	
10/25/2016										
10/26/2016							0.113 (O)			
1/6/2017										
4/6/2017										
10/4/2017										
7/11/2018										
1/16/2019										
1/17/2019										
1/18/2019										
1/21/2019										
3/25/2019										
10/8/2019										
4/6/2020										
9/28/2020										
1/31/2022										

Outlier Summary

Grumman Road Landfill Client: Southern Company Data: Grumman Road Landfill Printed 12/12/2024, 2:07 PM

	GWB-6R Chromium (mg/L)	GWC-16 Chromium (mg/L)	GWC-17 Chromium (mg/L)	GWA-7 Cobalt (mg/L)	GWA-7 Combined Radium 226 + 228 (pCi/L)	GWA-7 Lead (mg/L)	GWA-8 Lead (mg/L)	GWB-4R Lead (mg/L)	GWB-5R Lead (mg/L)	GWC-14 Lead (mg/L)
9/29/2000									0.017 (O)	
1/20/2001										
3/14/2001									0.026 (O)	
7/16/2001									0.043 (O)	
11/1/2001									0.075 (O)	
4/25/2002										
11/20/2002								0.018 (O)	0.057 (O)	0.011 (O)
6/6/2003		0.063 (O)				0.037 (O)	0.016 (O)	0.015 (O)	0.16 (O)	
12/12/2003			0.036 (O)							
5/26/2004										
12/7/2004									0.038 (O)	
6/21/2005									0.036 (O)	
12/12/2005										
6/27/2006								0.024 (O)		
12/4/2006								0.023 (O)		
6/23/2007										
6/24/2008	0.032 (O)							0.02 (O)		
7/8/2011										
1/18/2013										
4/3/2014										
1/18/2016										
7/27/2016										
8/31/2016										
9/1/2016						0.0663 (O)		0.0166 (O)		
10/25/2016										
10/26/2016										
1/6/2017										
4/6/2017										
10/4/2017										
7/11/2018				<0.005 (O)						
1/16/2019						<0.005 (O)				
1/17/2019										
1/18/2019										
1/21/2019										
3/25/2019										
10/8/2019					33.8 (o)					
4/6/2020					25.7 (o)					
9/28/2020					22.4 (o)					
1/31/2022				<0.005 (o)						

Outlier Summary

Grumman Road Landfill Client: Southern Company Data: Grumman Road Landfill Printed 12/12/2024, 2:07 PM

	GWC-16 Lead (mg/L)	GWC-9 Lead (mg/L)	GWC-9 Lithium (mg/L)	GWA-8 pH (SU)	GWC-13 pH (SU)	GWC-15 pH (SU)	GWC-20 pH (SU)	GWC-22 pH (SU)	GWC-9 pH (SU)	GWB-4R Selenium (mg/L)
9/29/2000										
1/20/2001										0.014 (O)
3/14/2001										
7/16/2001										0.015 (O)
11/1/2001										0.012 (O)
4/25/2002										
11/20/2002		0.0086 (O)								0.026 (O)
6/6/2003	0.099 (O)									0.022 (O)
12/12/2003	0.017 (O)									0.028 (O)
5/26/2004										0.012 (O)
12/7/2004										
6/21/2005										
12/12/2005										0.013 (O)
6/27/2006										
12/4/2006										
6/23/2007										
6/24/2008										
7/8/2011										
1/18/2013										
4/3/2014										
1/18/2016										
7/27/2016										
8/31/2016			<0.03 (O)							
9/1/2016										
10/25/2016										
10/26/2016										
1/6/2017										
4/6/2017										
10/4/2017										
7/11/2018										
1/16/2019				6.16 (O)	6.45 (O)					
1/17/2019						8.44 (O)				
1/18/2019								6.98 (O)	6.87 (O)	
1/21/2019							7.73 (O)			
3/25/2019										
10/8/2019										
4/6/2020										
9/28/2020										
1/31/2022										

Outlier Summary

Grumman Road Landfill Client: Southern Company Data: Grumman Road Landfill Printed 12/12/2024, 2:07 PM

	GWC-1 Selenium (mg/L)	GWC-15 Selenium (mg/L)	GWC-16 Selenium (mg/L)	GWA-7 Total Dissolved Solids (mg/L)	GWA-7 Vanadium (mg/L)	GWB-5R Vanadium (mg/L)	GWC-1 Vanadium (mg/L)	GWC-14 Vanadium (mg/L)	GWA-7 Zinc (mg/L)	GWB-5R Zinc (mg/L)
9/29/2000										
1/20/2001										
3/14/2001										
7/16/2001					0.12 (O)					
11/1/2001					0.21 (O)					
4/25/2002										
11/20/2002	0.19 (O)				0.14 (O)					
6/6/2003	0.32 (O)	0.021 (O)	0.021 (O)		0.12 (O)	0.16 (O)		0.69 (O)	0.51 (O)	
12/12/2003		0.016 (O)								
5/26/2004										
12/7/2004										
6/21/2005										
12/12/2005										
6/27/2006										
12/4/2006										
6/23/2007										
6/24/2008										
7/8/2011										
1/18/2013		0.04 (O)								
4/3/2014								0.077 (O)		
1/18/2016					0.41 (o)					
7/27/2016					0.397 (o)					
8/31/2016										
9/1/2016				3660 (o)						
10/25/2016				3560 (o)	0.425 (o)					
10/26/2016										
1/6/2017				3490 (o)	0.41 (o)					
4/6/2017				3170 (o)	0.297 (o)					
10/4/2017				3350 (o)	0.316 (o)					
7/11/2018										
1/16/2019										
1/17/2019										
1/18/2019										
1/21/2019										
3/25/2019									<0.05 (O)	
10/8/2019										
4/6/2020										
9/28/2020										
1/31/2022										

Outlier Summary

Grumman Road Landfill Client: Southern Company Data: Grumman Road Landfill Printed 12/12/2024, 2:07 PM

	GWB-6R Zinc (mg/L)	GWC-12 Zinc (mg/L)	GWC-15 Zinc (mg/L)	GWC-16 Zinc (mg/L)	GWC-22 Zinc (mg/L)
9/29/2000					
1/20/2001					
3/14/2001					
7/16/2001					
11/1/2001					
4/25/2002		1.2 (O)			
11/20/2002					
6/6/2003					
12/12/2003					
5/26/2004					
12/7/2004					
6/21/2005					
12/12/2005			0.064 (O)		
6/27/2006				0.077 (O)	
12/4/2006					
6/23/2007	0.094 (O)				
6/24/2008	0.098 (O)				
7/8/2011					0.1 (O)
1/18/2013					
4/3/2014					
1/18/2016					
7/27/2016					
8/31/2016					
9/1/2016					
10/25/2016					
10/26/2016					
1/6/2017					
4/6/2017					
10/4/2017					
7/11/2018					
1/16/2019					
1/17/2019					
1/18/2019					
1/21/2019					
3/25/2019					
10/8/2019					
4/6/2020					
9/28/2020					
1/31/2022					

FIGURE D.

Appendix I Interwell Prediction Limits - Significant Results

Grumman Road Landfill Client: Southern Company Data: Grumman Road Landfill Printed 12/13/2024, 1:28 PM

Constituent	Well	Upper Lim.	Lower Lim.	Date	Observ.	Sig.	Bg N	Bg Mean	Std. Dev.	%NDs	ND Adj.	Transform	Alpha	Method
Arsenic (mg/L)	**GWC-15**	**0.0287**	**n/a**	**8/21/2024**	**0.183**	**Yes**	**135**	**n/a**	**n/a**	**74.81**	**n/a**	**n/a**	**0.0001079**	**NP Inter (NDs) 1 of 2**
Arsenic (mg/L)	**GWC-16**	**0.0287**	**n/a**	**8/21/2024**	**0.131**	**Yes**	**135**	**n/a**	**n/a**	**74.81**	**n/a**	**n/a**	**0.0001079**	**NP Inter (NDs) 1 of 2**
Arsenic (mg/L)	**GWC-20**	**0.0287**	**n/a**	**8/21/2024**	**0.423**	**Yes**	**135**	**n/a**	**n/a**	**74.81**	**n/a**	**n/a**	**0.0001079**	**NP Inter (NDs) 1 of 2**
Barium (mg/L)	**GWC-21**	**0.236**	**n/a**	**8/22/2024**	**0.291**	**Yes**	**133**	**n/a**	**n/a**	**0**	**n/a**	**n/a**	**0.0001114**	**NP Inter (normality) 1 of 2**

Appendix I Interwell Prediction Limits - All Results

Grumman Road Landfill Client: Southern Company Data: Grumman Road Landfill Printed 12/13/2024, 1:28 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)	GWB-4R	0.003	n/a	8/20/2024	0.003ND	No	135	n/a	n/a	95.56	n/a	n/a	0.0001079	NP Inter (NDs) 1 of 2
Antimony (mg/L)	GWB-5R	0.003	n/a	8/21/2024	0.003ND	No	135	n/a	n/a	95.56	n/a	n/a	0.0001079	NP Inter (NDs) 1 of 2
Antimony (mg/L)	GWB-6R	0.003	n/a	8/20/2024	0.003ND	No	135	n/a	n/a	95.56	n/a	n/a	0.0001079	NP Inter (NDs) 1 of 2
Antimony (mg/L)	GWC-1	0.003	n/a	8/20/2024	0.003ND	No	135	n/a	n/a	95.56	n/a	n/a	0.0001079	NP Inter (NDs) 1 of 2
Antimony (mg/L)	GWC-11	0.003	n/a	8/21/2024	0.003ND	No	135	n/a	n/a	95.56	n/a	n/a	0.0001079	NP Inter (NDs) 1 of 2
Antimony (mg/L)	GWC-12	0.003	n/a	8/21/2024	0.003ND	No	135	n/a	n/a	95.56	n/a	n/a	0.0001079	NP Inter (NDs) 1 of 2
Antimony (mg/L)	GWC-13	0.003	n/a	8/21/2024	0.003ND	No	135	n/a	n/a	95.56	n/a	n/a	0.0001079	NP Inter (NDs) 1 of 2
Antimony (mg/L)	GWC-14	0.003	n/a	8/21/2024	0.003ND	No	135	n/a	n/a	95.56	n/a	n/a	0.0001079	NP Inter (NDs) 1 of 2
Antimony (mg/L)	GWC-15	0.003	n/a	8/21/2024	0.003ND	No	135	n/a	n/a	95.56	n/a	n/a	0.0001079	NP Inter (NDs) 1 of 2
Antimony (mg/L)	GWC-16	0.003	n/a	8/21/2024	0.003ND	No	135	n/a	n/a	95.56	n/a	n/a	0.0001079	NP Inter (NDs) 1 of 2
Antimony (mg/L)	GWC-17	0.003	n/a	8/21/2024	0.003ND	No	135	n/a	n/a	95.56	n/a	n/a	0.0001079	NP Inter (NDs) 1 of 2
Antimony (mg/L)	GWC-2	0.003	n/a	8/21/2024	0.003ND	No	135	n/a	n/a	95.56	n/a	n/a	0.0001079	NP Inter (NDs) 1 of 2
Antimony (mg/L)	GWC-20	0.003	n/a	8/21/2024	0.003ND	No	135	n/a	n/a	95.56	n/a	n/a	0.0001079	NP Inter (NDs) 1 of 2
Antimony (mg/L)	GWC-21	0.003	n/a	8/22/2024	0.003ND	No	135	n/a	n/a	95.56	n/a	n/a	0.0001079	NP Inter (NDs) 1 of 2
Antimony (mg/L)	GWC-22	0.003	n/a	8/21/2024	0.003ND	No	135	n/a	n/a	95.56	n/a	n/a	0.0001079	NP Inter (NDs) 1 of 2
Antimony (mg/L)	GWC-9	0.003	n/a	8/21/2024	0.003ND	No	135	n/a	n/a	95.56	n/a	n/a	0.0001079	NP Inter (NDs) 1 of 2
Arsenic (mg/L)	GWB-4R	0.0287	n/a	8/20/2024	0.00377J	No	135	n/a	n/a	74.81	n/a	n/a	0.0001079	NP Inter (NDs) 1 of 2
Arsenic (mg/L)	GWB-5R	0.0287	n/a	8/21/2024	0.00237J	No	135	n/a	n/a	74.81	n/a	n/a	0.0001079	NP Inter (NDs) 1 of 2
Arsenic (mg/L)	GWB-6R	0.0287	n/a	8/20/2024	0.0056	No	135	n/a	n/a	74.81	n/a	n/a	0.0001079	NP Inter (NDs) 1 of 2
Arsenic (mg/L)	GWC-1	0.0287	n/a	8/20/2024	0.0131	No	135	n/a	n/a	74.81	n/a	n/a	0.0001079	NP Inter (NDs) 1 of 2
Arsenic (mg/L)	GWC-11	0.0287	n/a	8/21/2024	0.005ND	No	135	n/a	n/a	74.81	n/a	n/a	0.0001079	NP Inter (NDs) 1 of 2
Arsenic (mg/L)	GWC-12	0.0287	n/a	8/21/2024	0.005ND	No	135	n/a	n/a	74.81	n/a	n/a	0.0001079	NP Inter (NDs) 1 of 2
Arsenic (mg/L)	GWC-13	0.0287	n/a	8/21/2024	0.005ND	No	135	n/a	n/a	74.81	n/a	n/a	0.0001079	NP Inter (NDs) 1 of 2
Arsenic (mg/L)	GWC-14	0.0287	n/a	8/21/2024	0.005ND	No	135	n/a	n/a	74.81	n/a	n/a	0.0001079	NP Inter (NDs) 1 of 2
Arsenic (mg/L)	**GWC-15**	**0.0287**	**n/a**	**8/21/2024**	**0.183**	**Yes**	**135**	**n/a**	**n/a**	**74.81**	**n/a**	**n/a**	**0.0001079**	**NP Inter (NDs) 1 of 2**
Arsenic (mg/L)	**GWC-16**	**0.0287**	**n/a**	**8/21/2024**	**0.131**	**Yes**	**135**	**n/a**	**n/a**	**74.81**	**n/a**	**n/a**	**0.0001079**	**NP Inter (NDs) 1 of 2**
Arsenic (mg/L)	GWC-17	0.0287	n/a	8/21/2024	0.005ND	No	135	n/a	n/a	74.81	n/a	n/a	0.0001079	NP Inter (NDs) 1 of 2
Arsenic (mg/L)	GWC-2	0.0287	n/a	8/21/2024	0.005ND	No	135	n/a	n/a	74.81	n/a	n/a	0.0001079	NP Inter (NDs) 1 of 2
Arsenic (mg/L)	**GWC-20**	**0.0287**	**n/a**	**8/21/2024**	**0.423**	**Yes**	**135**	**n/a**	**n/a**	**74.81**	**n/a**	**n/a**	**0.0001079**	**NP Inter (NDs) 1 of 2**
Arsenic (mg/L)	GWC-21	0.0287	n/a	8/22/2024	0.00929	No	135	n/a	n/a	74.81	n/a	n/a	0.0001079	NP Inter (NDs) 1 of 2
Arsenic (mg/L)	GWC-22	0.0287	n/a	8/21/2024	0.005ND	No	135	n/a	n/a	74.81	n/a	n/a	0.0001079	NP Inter (NDs) 1 of 2
Arsenic (mg/L)	GWC-9	0.0287	n/a	8/21/2024	0.005ND	No	135	n/a	n/a	74.81	n/a	n/a	0.0001079	NP Inter (NDs) 1 of 2
Barium (mg/L)	GWB-4R	0.236	n/a	8/20/2024	0.214	No	133	n/a	n/a	0	n/a	n/a	0.0001114	NP Inter (normality) 1 of 2
Barium (mg/L)	GWB-5R	0.236	n/a	8/21/2024	0.0921	No	133	n/a	n/a	0	n/a	n/a	0.0001114	NP Inter (normality) 1 of 2
Barium (mg/L)	GWB-6R	0.236	n/a	8/20/2024	0.028	No	133	n/a	n/a	0	n/a	n/a	0.0001114	NP Inter (normality) 1 of 2
Barium (mg/L)	GWC-1	0.236	n/a	8/20/2024	0.0452	No	133	n/a	n/a	0	n/a	n/a	0.0001114	NP Inter (normality) 1 of 2
Barium (mg/L)	GWC-11	0.236	n/a	8/21/2024	0.126	No	133	n/a	n/a	0	n/a	n/a	0.0001114	NP Inter (normality) 1 of 2
Barium (mg/L)	GWC-12	0.236	n/a	8/21/2024	0.0236	No	133	n/a	n/a	0	n/a	n/a	0.0001114	NP Inter (normality) 1 of 2
Barium (mg/L)	GWC-13	0.236	n/a	8/21/2024	0.0526	No	133	n/a	n/a	0	n/a	n/a	0.0001114	NP Inter (normality) 1 of 2
Barium (mg/L)	GWC-14	0.236	n/a	8/21/2024	0.0355	No	133	n/a	n/a	0	n/a	n/a	0.0001114	NP Inter (normality) 1 of 2
Barium (mg/L)	GWC-15	0.236	n/a	8/21/2024	0.0541	No	133	n/a	n/a	0	n/a	n/a	0.0001114	NP Inter (normality) 1 of 2
Barium (mg/L)	GWC-16	0.236	n/a	8/21/2024	0.111	No	133	n/a	n/a	0	n/a	n/a	0.0001114	NP Inter (normality) 1 of 2
Barium (mg/L)	GWC-17	0.236	n/a	8/21/2024	0.0254	No	133	n/a	n/a	0	n/a	n/a	0.0001114	NP Inter (normality) 1 of 2
Barium (mg/L)	GWC-2	0.236	n/a	8/21/2024	0.0506	No	133	n/a	n/a	0	n/a	n/a	0.0001114	NP Inter (normality) 1 of 2
Barium (mg/L)	GWC-20	0.236	n/a	8/21/2024	0.226	No	133	n/a	n/a	0	n/a	n/a	0.0001114	NP Inter (normality) 1 of 2
Barium (mg/L)	**GWC-21**	**0.236**	**n/a**	**8/22/2024**	**0.291**	**Yes**	**133**	**n/a**	**n/a**	**0**	**n/a**	**n/a**	**0.0001114**	**NP Inter (normality) 1 of 2**
Barium (mg/L)	GWC-22	0.236	n/a	8/21/2024	0.0362	No	133	n/a	n/a	0	n/a	n/a	0.0001114	NP Inter (normality) 1 of 2
Barium (mg/L)	GWC-9	0.236	n/a	8/21/2024	0.149	No	133	n/a	n/a	0	n/a	n/a	0.0001114	NP Inter (normality) 1 of 2
Chromium (mg/L)	GWB-4R	0.068	n/a	8/20/2024	0.00544J	No	134	n/a	n/a	61.94	n/a	n/a	0.0001096	NP Inter (NDs) 1 of 2
Chromium (mg/L)	GWB-5R	0.068	n/a	8/21/2024	0.00542J	No	134	n/a	n/a	61.94	n/a	n/a	0.0001096	NP Inter (NDs) 1 of 2
Chromium (mg/L)	GWB-6R	0.068	n/a	8/20/2024	0.00339J	No	134	n/a	n/a	61.94	n/a	n/a	0.0001096	NP Inter (NDs) 1 of 2
Chromium (mg/L)	GWC-1	0.068	n/a	8/20/2024	0.01ND	No	134	n/a	n/a	61.94	n/a	n/a	0.0001096	NP Inter (NDs) 1 of 2
Chromium (mg/L)	GWC-11	0.068	n/a	8/21/2024	0.01ND	No	134	n/a	n/a	61.94	n/a	n/a	0.0001096	NP Inter (NDs) 1 of 2
Chromium (mg/L)	GWC-12	0.068	n/a	8/21/2024	0.01ND	No	134	n/a	n/a	61.94	n/a	n/a	0.0001096	NP Inter (NDs) 1 of 2
Chromium (mg/L)	GWC-13	0.068	n/a	8/21/2024	0.01ND	No	134	n/a	n/a	61.94	n/a	n/a	0.0001096	NP Inter (NDs) 1 of 2
Chromium (mg/L)	GWC-14	0.068	n/a	8/21/2024	0.01ND	No	134	n/a	n/a	61.94	n/a	n/a	0.0001096	NP Inter (NDs) 1 of 2
Chromium (mg/L)	GWC-15	0.068	n/a	8/21/2024	0.01ND	No	134	n/a	n/a	61.94	n/a	n/a	0.0001096	NP Inter (NDs) 1 of 2
Chromium (mg/L)	GWC-16	0.068	n/a	8/21/2024	0.01ND	No	134	n/a	n/a	61.94	n/a	n/a	0.0001096	NP Inter (NDs) 1 of 2
Chromium (mg/L)	GWC-17	0.068	n/a	8/21/2024	0.01ND	No	134	n/a	n/a	61.94	n/a	n/a	0.0001096	NP Inter (NDs) 1 of 2
Chromium (mg/L)	GWC-2	0.068	n/a	8/21/2024	0.01ND	No	134	n/a	n/a	61.94	n/a	n/a	0.0001096	NP Inter (NDs) 1 of 2
Chromium (mg/L)	GWC-20	0.068	n/a	8/21/2024	0.01ND	No	134	n/a	n/a	61.94	n/a	n/a	0.0001096	NP Inter (NDs) 1 of 2
Chromium (mg/L)	GWC-21	0.068	n/a	8/22/2024	0.01ND	No	134	n/a	n/a	61.94	n/a	n/a	0.0001096	NP Inter (NDs) 1 of 2
Chromium (mg/L)	GWC-22	0.068	n/a	8/21/2024	0.01ND	No	134	n/a	n/a	61.94	n/a	n/a	0.0001096	NP Inter (NDs) 1 of 2
Chromium (mg/L)	GWC-9	0.068	n/a	8/21/2024	0.01ND	No	134	n/a	n/a	61.94	n/a	n/a	0.0001096	NP Inter (NDs) 1 of 2

Appendix I Interwell Prediction Limits - All Results

Grumman Road Landfill Client: Southern Company Data: Grumman Road Landfill Printed 12/13/2024, 1:28 PM

Constituent	Well	Upper Lim.	Lower Lim.	Date	Observ.	Sig.	Bg N	Bg Mean	Std. Dev.	%NDs	ND Adj.	Transform	Alpha	Method
Lead (mg/L)	GWB-4R	0.013	n/a	8/20/2024	0.002ND	No	131	n/a	n/a	72.52	n/a	n/a	0.0001149	NP Inter (NDs) 1 of 2
Lead (mg/L)	GWB-5R	0.013	n/a	8/21/2024	0.000522J	No	131	n/a	n/a	72.52	n/a	n/a	0.0001149	NP Inter (NDs) 1 of 2
Lead (mg/L)	GWB-6R	0.013	n/a	8/20/2024	0.002ND	No	131	n/a	n/a	72.52	n/a	n/a	0.0001149	NP Inter (NDs) 1 of 2
Lead (mg/L)	GWC-1	0.013	n/a	8/20/2024	0.002ND	No	131	n/a	n/a	72.52	n/a	n/a	0.0001149	NP Inter (NDs) 1 of 2
Lead (mg/L)	GWC-11	0.013	n/a	8/21/2024	0.002ND	No	131	n/a	n/a	72.52	n/a	n/a	0.0001149	NP Inter (NDs) 1 of 2
Lead (mg/L)	GWC-12	0.013	n/a	8/21/2024	0.002ND	No	131	n/a	n/a	72.52	n/a	n/a	0.0001149	NP Inter (NDs) 1 of 2
Lead (mg/L)	GWC-13	0.013	n/a	8/21/2024	0.002ND	No	131	n/a	n/a	72.52	n/a	n/a	0.0001149	NP Inter (NDs) 1 of 2
Lead (mg/L)	GWC-14	0.013	n/a	8/21/2024	0.002ND	No	131	n/a	n/a	72.52	n/a	n/a	0.0001149	NP Inter (NDs) 1 of 2
Lead (mg/L)	GWC-15	0.013	n/a	8/21/2024	0.002ND	No	131	n/a	n/a	72.52	n/a	n/a	0.0001149	NP Inter (NDs) 1 of 2
Lead (mg/L)	GWC-16	0.013	n/a	8/21/2024	0.002ND	No	131	n/a	n/a	72.52	n/a	n/a	0.0001149	NP Inter (NDs) 1 of 2
Lead (mg/L)	GWC-17	0.013	n/a	8/21/2024	0.002ND	No	131	n/a	n/a	72.52	n/a	n/a	0.0001149	NP Inter (NDs) 1 of 2
Lead (mg/L)	GWC-2	0.013	n/a	8/21/2024	0.002ND	No	131	n/a	n/a	72.52	n/a	n/a	0.0001149	NP Inter (NDs) 1 of 2
Lead (mg/L)	GWC-20	0.013	n/a	8/21/2024	0.002ND	No	131	n/a	n/a	72.52	n/a	n/a	0.0001149	NP Inter (NDs) 1 of 2
Lead (mg/L)	GWC-21	0.013	n/a	8/22/2024	0.002ND	No	131	n/a	n/a	72.52	n/a	n/a	0.0001149	NP Inter (NDs) 1 of 2
Lead (mg/L)	GWC-22	0.013	n/a	8/21/2024	0.002ND	No	131	n/a	n/a	72.52	n/a	n/a	0.0001149	NP Inter (NDs) 1 of 2
Lead (mg/L)	GWC-9	0.013	n/a	8/21/2024	0.002ND	No	131	n/a	n/a	72.52	n/a	n/a	0.0001149	NP Inter (NDs) 1 of 2
Selenium (mg/L)	GWB-4R	0.0438	n/a	8/20/2024	0.00381J	No	135	n/a	n/a	81.48	n/a	n/a	0.0001079	NP Inter (NDs) 1 of 2
Selenium (mg/L)	GWB-5R	0.0438	n/a	8/21/2024	0.00214J	No	135	n/a	n/a	81.48	n/a	n/a	0.0001079	NP Inter (NDs) 1 of 2
Selenium (mg/L)	GWB-6R	0.0438	n/a	8/20/2024	0.00254J	No	135	n/a	n/a	81.48	n/a	n/a	0.0001079	NP Inter (NDs) 1 of 2
Selenium (mg/L)	GWC-1	0.0438	n/a	8/20/2024	0.00155J	No	135	n/a	n/a	81.48	n/a	n/a	0.0001079	NP Inter (NDs) 1 of 2
Selenium (mg/L)	GWC-11	0.0438	n/a	8/21/2024	0.00627	No	135	n/a	n/a	81.48	n/a	n/a	0.0001079	NP Inter (NDs) 1 of 2
Selenium (mg/L)	GWC-12	0.0438	n/a	8/21/2024	0.005ND	No	135	n/a	n/a	81.48	n/a	n/a	0.0001079	NP Inter (NDs) 1 of 2
Selenium (mg/L)	GWC-13	0.0438	n/a	8/21/2024	0.005ND	No	135	n/a	n/a	81.48	n/a	n/a	0.0001079	NP Inter (NDs) 1 of 2
Selenium (mg/L)	GWC-14	0.0438	n/a	8/21/2024	0.00337J	No	135	n/a	n/a	81.48	n/a	n/a	0.0001079	NP Inter (NDs) 1 of 2
Selenium (mg/L)	GWC-15	0.0438	n/a	8/21/2024	0.00314J	No	135	n/a	n/a	81.48	n/a	n/a	0.0001079	NP Inter (NDs) 1 of 2
Selenium (mg/L)	GWC-16	0.0438	n/a	8/21/2024	0.00313J	No	135	n/a	n/a	81.48	n/a	n/a	0.0001079	NP Inter (NDs) 1 of 2
Selenium (mg/L)	GWC-17	0.0438	n/a	8/21/2024	0.005ND	No	135	n/a	n/a	81.48	n/a	n/a	0.0001079	NP Inter (NDs) 1 of 2
Selenium (mg/L)	GWC-2	0.0438	n/a	8/21/2024	0.005ND	No	135	n/a	n/a	81.48	n/a	n/a	0.0001079	NP Inter (NDs) 1 of 2
Selenium (mg/L)	GWC-20	0.0438	n/a	8/21/2024	0.00209J	No	135	n/a	n/a	81.48	n/a	n/a	0.0001079	NP Inter (NDs) 1 of 2
Selenium (mg/L)	GWC-21	0.0438	n/a	8/22/2024	0.00594	No	135	n/a	n/a	81.48	n/a	n/a	0.0001079	NP Inter (NDs) 1 of 2
Selenium (mg/L)	GWC-22	0.0438	n/a	8/21/2024	0.005ND	No	135	n/a	n/a	81.48	n/a	n/a	0.0001079	NP Inter (NDs) 1 of 2
Selenium (mg/L)	GWC-9	0.0438	n/a	8/21/2024	0.005ND	No	135	n/a	n/a	81.48	n/a	n/a	0.0001079	NP Inter (NDs) 1 of 2
Vanadium (mg/L)	GWB-4R	0.24	n/a	8/20/2024	0.0189J	No	123	n/a	n/a	62.6	n/a	n/a	0.0001289	NP Inter (NDs) 1 of 2
Vanadium (mg/L)	GWB-5R	0.24	n/a	8/21/2024	0.0209	No	123	n/a	n/a	62.6	n/a	n/a	0.0001289	NP Inter (NDs) 1 of 2
Vanadium (mg/L)	GWB-6R	0.24	n/a	8/20/2024	0.0155J	No	123	n/a	n/a	62.6	n/a	n/a	0.0001289	NP Inter (NDs) 1 of 2
Vanadium (mg/L)	GWC-1	0.24	n/a	8/20/2024	0.02ND	No	123	n/a	n/a	62.6	n/a	n/a	0.0001289	NP Inter (NDs) 1 of 2
Vanadium (mg/L)	GWC-11	0.24	n/a	8/21/2024	0.00332J	No	123	n/a	n/a	62.6	n/a	n/a	0.0001289	NP Inter (NDs) 1 of 2
Vanadium (mg/L)	GWC-12	0.24	n/a	8/21/2024	0.00869J	No	123	n/a	n/a	62.6	n/a	n/a	0.0001289	NP Inter (NDs) 1 of 2
Vanadium (mg/L)	GWC-13	0.24	n/a	8/21/2024	0.02ND	No	123	n/a	n/a	62.6	n/a	n/a	0.0001289	NP Inter (NDs) 1 of 2
Vanadium (mg/L)	GWC-14	0.24	n/a	8/21/2024	0.0038J	No	123	n/a	n/a	62.6	n/a	n/a	0.0001289	NP Inter (NDs) 1 of 2
Vanadium (mg/L)	GWC-15	0.24	n/a	8/21/2024	0.00338J	No	123	n/a	n/a	62.6	n/a	n/a	0.0001289	NP Inter (NDs) 1 of 2
Vanadium (mg/L)	GWC-16	0.24	n/a	8/21/2024	0.00407J	No	123	n/a	n/a	62.6	n/a	n/a	0.0001289	NP Inter (NDs) 1 of 2
Vanadium (mg/L)	GWC-17	0.24	n/a	8/21/2024	0.02ND	No	123	n/a	n/a	62.6	n/a	n/a	0.0001289	NP Inter (NDs) 1 of 2
Vanadium (mg/L)	GWC-2	0.24	n/a	8/21/2024	0.02ND	No	123	n/a	n/a	62.6	n/a	n/a	0.0001289	NP Inter (NDs) 1 of 2
Vanadium (mg/L)	GWC-20	0.24	n/a	8/21/2024	0.00558J	No	123	n/a	n/a	62.6	n/a	n/a	0.0001289	NP Inter (NDs) 1 of 2
Vanadium (mg/L)	GWC-21	0.24	n/a	8/22/2024	0.00457J	No	123	n/a	n/a	62.6	n/a	n/a	0.0001289	NP Inter (NDs) 1 of 2
Vanadium (mg/L)	GWC-22	0.24	n/a	8/21/2024	0.02ND	No	123	n/a	n/a	62.6	n/a	n/a	0.0001289	NP Inter (NDs) 1 of 2
Vanadium (mg/L)	GWC-9	0.24	n/a	8/21/2024	0.02ND	No	123	n/a	n/a	62.6	n/a	n/a	0.0001289	NP Inter (NDs) 1 of 2
Zinc (mg/L)	GWB-4R	0.16	n/a	8/20/2024	0.00972J	No	127	n/a	n/a	29.13	n/a	n/a	0.0001219	NP Inter (normality) 1 of 2
Zinc (mg/L)	GWB-5R	0.16	n/a	8/21/2024	0.02ND	No	127	n/a	n/a	29.13	n/a	n/a	0.0001219	NP Inter (normality) 1 of 2
Zinc (mg/L)	GWB-6R	0.16	n/a	8/20/2024	0.0355	No	127	n/a	n/a	29.13	n/a	n/a	0.0001219	NP Inter (normality) 1 of 2
Zinc (mg/L)	GWC-1	0.16	n/a	8/20/2024	0.00917J	No	127	n/a	n/a	29.13	n/a	n/a	0.0001219	NP Inter (normality) 1 of 2
Zinc (mg/L)	GWC-11	0.16	n/a	8/21/2024	0.0392	No	127	n/a	n/a	29.13	n/a	n/a	0.0001219	NP Inter (normality) 1 of 2
Zinc (mg/L)	GWC-12	0.16	n/a	8/21/2024	0.00744J	No	127	n/a	n/a	29.13	n/a	n/a	0.0001219	NP Inter (normality) 1 of 2
Zinc (mg/L)	GWC-13	0.16	n/a	8/21/2024	0.0168J	No	127	n/a	n/a	29.13	n/a	n/a	0.0001219	NP Inter (normality) 1 of 2
Zinc (mg/L)	GWC-14	0.16	n/a	8/21/2024	0.02ND	No	127	n/a	n/a	29.13	n/a	n/a	0.0001219	NP Inter (normality) 1 of 2
Zinc (mg/L)	GWC-15	0.16	n/a	8/21/2024	0.02ND	No	127	n/a	n/a	29.13	n/a	n/a	0.0001219	NP Inter (normality) 1 of 2
Zinc (mg/L)	GWC-16	0.16	n/a	8/21/2024	0.02ND	No	127	n/a	n/a	29.13	n/a	n/a	0.0001219	NP Inter (normality) 1 of 2
Zinc (mg/L)	GWC-17	0.16	n/a	8/21/2024	0.0066J	No	127	n/a	n/a	29.13	n/a	n/a	0.0001219	NP Inter (normality) 1 of 2
Zinc (mg/L)	GWC-2	0.16	n/a	8/21/2024	0.02ND	No	127	n/a	n/a	29.13	n/a	n/a	0.0001219	NP Inter (normality) 1 of 2
Zinc (mg/L)	GWC-20	0.16	n/a	8/21/2024	0.02ND	No	127	n/a	n/a	29.13	n/a	n/a	0.0001219	NP Inter (normality) 1 of 2
Zinc (mg/L)	GWC-21	0.16	n/a	8/22/2024	0.02ND	No	127	n/a	n/a	29.13	n/a	n/a	0.0001219	NP Inter (normality) 1 of 2
Zinc (mg/L)	GWC-22	0.16	n/a	8/21/2024	0.0141J	No	127	n/a	n/a	29.13	n/a	n/a	0.0001219	NP Inter (normality) 1 of 2
Zinc (mg/L)	GWC-9	0.16	n/a	8/21/2024	0.0137J	No	127	n/a	n/a	29.13	n/a	n/a	0.0001219	NP Inter (normality) 1 of 2

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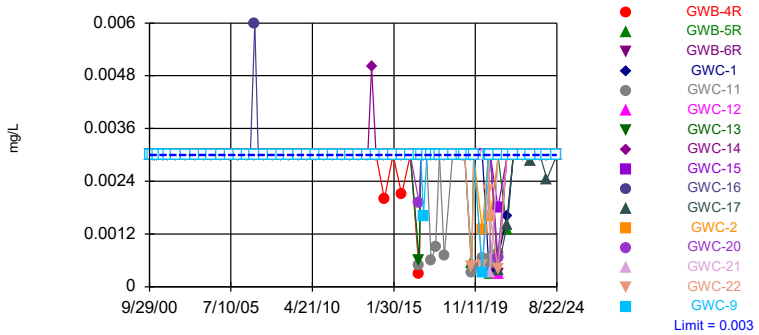
Hollow symbols indicate censored values.

Within Limit

Prediction Limit

Interwell Non-parametric



Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 135 background values. 95.56% NDs. Annual per-constituent alpha = 0.003447. Individual comparison alpha = 0.0001079 (1 of 2). Comparing 16 points to limit.

Constituent: Antimony Analysis Run 12/13/2024 1:24 PM View: Appendix I
Grumman Road Landfill Client: Southern Company Data: Grumman Road Landfill

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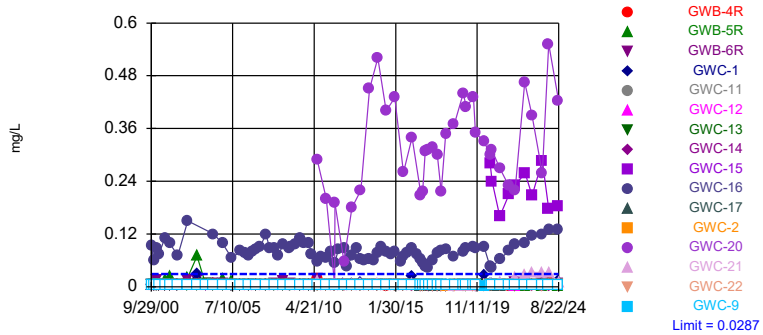
Hollow symbols indicate censored values.

Exceeds Limit: GWC-15, GWC-16, GWC-20

Prediction Limit

Interwell Non-parametric



Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 135 background values. 74.81% NDs. Annual per-constituent alpha = 0.003447. Individual comparison alpha = 0.0001079 (1 of 2). Comparing 16 points to limit.

Constituent: Arsenic Analysis Run 12/13/2024 1:25 PM View: Appendix I
Grumman Road Landfill Client: Southern Company Data: Grumman Road Landfill

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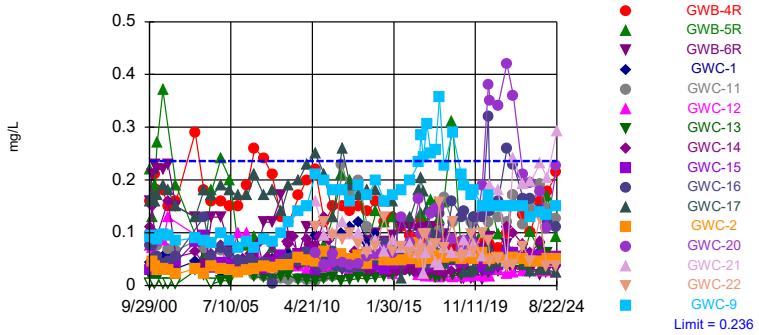
Hollow symbols indicate censored values.

Exceeds Limit: GWC-21

Prediction Limit

Interwell Non-parametric



Non-parametric test used in lieu of parametric prediction limit because the Chi Squared normality test showed the data to be non-normal at the 0.01 alpha level. Limit is highest of 133 background values. Annual per-constituent alpha = 0.003558. Individual comparison alpha = 0.0001114 (1 of 2). Comparing 16 points to limit.

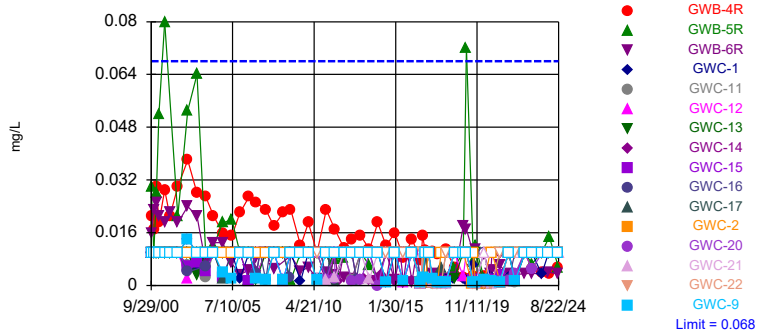
Constituent: Barium Analysis Run 12/13/2024 1:25 PM View: Appendix I
Grumman Road Landfill Client: Southern Company Data: Grumman Road Landfill

Sanitas™ v.10.0.23a Software licensed to Groundwater Stats Consulting. UG
Hollow symbols indicate censored values.

Within Limit

Prediction Limit

Interwell Non-parametric



Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 134 background values. 61.94% NDs. Annual per-constituent alpha = 0.003503. Individual comparison alpha = 0.0001096 (1 of 2). Comparing 16 points to limit.

Constituent: Chromium Analysis Run 12/13/2024 1:25 PM View: Appendix I
Grumman Road Landfill Client: Southern Company Data: Grumman Road Landfill

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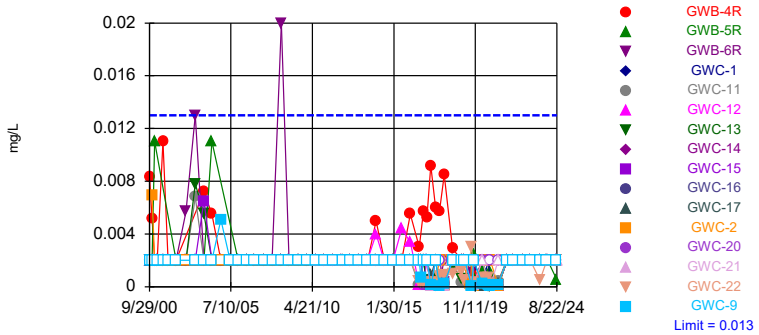
Hollow symbols indicate censored values.

Within Limit

Prediction Limit

Interwell Non-parametric



Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 131 background values. 72.52% NDs. Annual per-constituent alpha = 0.00367. Individual comparison alpha = 0.0001149 (1 of 2). Comparing 16 points to limit.

Constituent: Lead Analysis Run 12/13/2024 1:25 PM View: Appendix I
Grumman Road Landfill Client: Southern Company Data: Grumman Road Landfill

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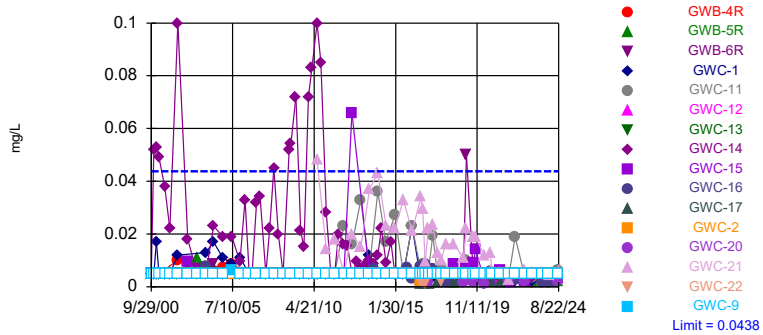
Hollow symbols indicate censored values.

Within Limit

Prediction Limit

Interwell Non-parametric



Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 135 background values. 81.48% NDs. Annual per-constituent alpha = 0.003447. Individual comparison alpha = 0.0001079 (1 of 2). Comparing 16 points to limit.

Constituent: Selenium Analysis Run 12/13/2024 1:25 PM View: Appendix I
Grumman Road Landfill Client: Southern Company Data: Grumman Road Landfill

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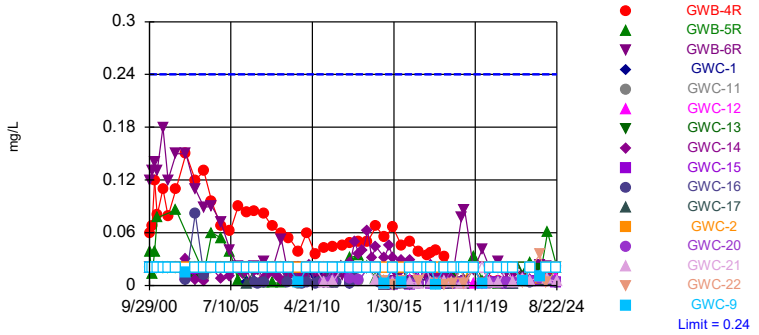
Hollow symbols indicate censored values.

Within Limit

Prediction Limit

Interwell Non-parametric



Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 123 background values. 62.6% NDs. Annual per-constituent alpha = 0.004116. Individual comparison alpha = 0.0001289 (1 of 2). Comparing 16 points to limit.

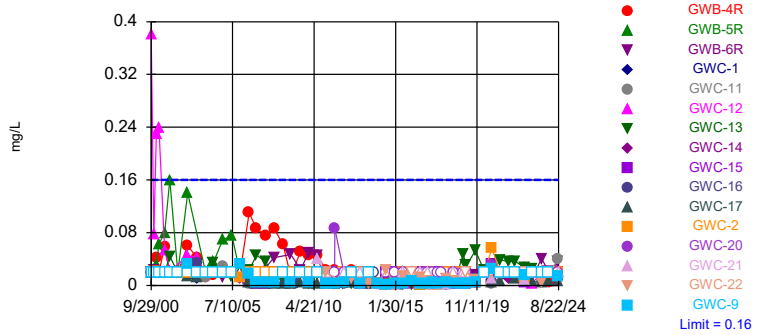
Constituent: Vanadium Analysis Run 12/13/2024 1:25 PM View: Appendix I
Grumman Road Landfill Client: Southern Company Data: Grumman Road Landfill

Sanitas™ v.10.0.23a Software licensed to Groundwater Stats Consulting. UG
Hollow symbols indicate censored values.

Within Limit

Prediction Limit

Interwell Non-parametric



Non-parametric test used in lieu of parametric prediction limit because the Chi Squared normality test showed the data to be non-normal at the 0.01 alpha level. Limit is highest of 127 background values. 29.13% NDs. Annual per-constituent alpha = 0.003893. Individual comparison alpha = 0.0001219 (1 of 2). Comparing 16 points to limit.

Constituent: Zinc Analysis Run 12/13/2024 1:25 PM View: Appendix I
Grumman Road Landfill Client: Southern Company Data: Grumman Road Landfill

Prediction Limit

Constituent: Antimony (mg/L) Analysis Run 12/13/2024 1:28 PM View: Appendix I

Grumman Road Landfill Client: Southern Company Data: Grumman Road Landfill

	GWA-7 (bg)	GWB-5R	GWC-1	GWC-9	GWB-4R	GWC-15	GWA-8 (bg)	GWC-16	GWC-14
9/29/2000	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003
11/21/2000	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003		<0.003	<0.003
1/20/2001	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003
3/14/2001	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003
7/16/2001	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003
11/1/2001	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003
4/25/2002	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003
11/20/2002		<0.003	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003
6/6/2003	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003
12/12/2003	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003
5/26/2004	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003
12/7/2004	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003
6/21/2005	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003
12/12/2005	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003
4/4/2006							<0.003	<0.003	<0.003
6/27/2006	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003
8/30/2006							<0.003	<0.003	<0.003
12/4/2006	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003	0.006	<0.003
2/15/2007							<0.003	<0.003	<0.003
6/23/2007	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003
9/11/2007							<0.003	<0.003	<0.003
12/11/2007	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003
3/11/2008							<0.003	<0.003	<0.003
6/23/2008	<0.003			<0.003			<0.003		
6/24/2008		<0.003	<0.003		<0.003	<0.003		<0.003	<0.003
11/3/2008							<0.003	<0.003	<0.003
12/4/2008	<0.003			<0.003			<0.003		<0.003
12/5/2008		<0.003	<0.003		<0.003	<0.003		<0.003	
3/25/2009							<0.003	<0.003	<0.003
7/7/2009	<0.003	<0.003	<0.003		<0.003		<0.003		
7/8/2009				<0.003		<0.003		<0.003	<0.003
9/14/2009							<0.003	<0.003	<0.003
12/20/2009	<0.003		<0.003			<0.003	<0.003	<0.003	<0.003
12/21/2009		<0.003		<0.003	<0.003				
3/4/2010							<0.003	<0.003	<0.003
6/20/2010	<0.003	<0.003	<0.003	<0.003		<0.003	<0.003		<0.003
6/21/2010					<0.003			<0.003	
9/14/2010							<0.003	<0.003	<0.003
1/6/2011		<0.003	<0.003						
1/7/2011	<0.003			<0.003	<0.003	<0.003	<0.003	<0.003	<0.003
4/15/2011							<0.003	<0.003	<0.003
7/7/2011	<0.003	<0.003	<0.003			<0.003	<0.003	<0.003	<0.003
7/8/2011				<0.003	<0.003				
9/25/2011							<0.003	<0.003	<0.003
1/17/2012	<0.003	<0.003	<0.003			<0.003	<0.003		<0.003
1/18/2012				<0.003	<0.003			<0.003	
4/4/2012							<0.003	<0.003	<0.003
7/9/2012	<0.003	<0.003	<0.003			<0.003			<0.003
7/10/2012				<0.003	<0.003		<0.003	<0.003	
10/9/2012							<0.003	<0.003	<0.003
1/17/2013		<0.003	<0.003						
1/18/2013	<0.003			<0.003	<0.003	<0.003	<0.003	<0.003	<0.003

ND substitution: RL or RL/2 if <15% NDs.

Prediction Limit

Constituent: Antimony (mg/L) Analysis Run 12/13/2024 1:28 PM View: Appendix I

Grumman Road Landfill Client: Southern Company Data: Grumman Road Landfill

	GWA-7 (bg)	GWB-5R	GWC-1	GWC-9	GWB-4R	GWC-15	GWA-8 (bg)	GWC-16	GWC-14
4/5/2013							<0.003	<0.003	<0.003
7/16/2013		<0.003	<0.003						
7/17/2013	<0.003			<0.003	<0.003	<0.003	<0.003	<0.003	<0.003
10/11/2013							<0.003	<0.003	0.005
1/13/2014	<0.003	<0.003	<0.003			<0.003			
1/14/2014				<0.003	<0.003		<0.003	<0.003	<0.003
4/3/2014							<0.003	<0.003	<0.003
7/8/2014									
7/9/2014	0.0022 (J)	<0.003	<0.003	<0.003	0.002 (J)	<0.003	<0.003	<0.003	<0.003
7/10/2014									
10/24/2014							<0.003	<0.003	<0.003
1/12/2015					<0.003				
1/13/2015	<0.003	<0.003	<0.003			<0.003			
1/14/2015				<0.003			<0.003	<0.003	<0.003
5/10/2015							<0.003		<0.003
5/11/2015								<0.003	
7/16/2015	0.0028 (J)	<0.003	<0.003		0.0021 (J)	<0.003		<0.003	
7/17/2015				<0.003			<0.003		<0.003
7/18/2015									
10/6/2015							<0.003	<0.003	<0.003
1/17/2016			<0.003			<0.003		<0.003	<0.003
1/18/2016	<0.003	<0.003		<0.003	<0.003		<0.003		
1/19/2016									
4/26/2016							<0.003	<0.003	<0.003
7/26/2016									
7/27/2016	<0.003	<0.003	<0.003			<0.003			<0.003
7/28/2016				<0.003			<0.003	<0.003	
7/29/2016					0.0003 (J)				
8/30/2016		<0.003	<0.003				<0.003		
8/31/2016				<0.003					
9/1/2016	0.0017 (J)				<0.003	<0.003		<0.003	<0.003
10/24/2016							<0.003		
10/25/2016	<0.003		<0.003			<0.003		<0.003	<0.003
10/26/2016		<0.003			<0.003				
10/27/2016				0.0016 (J)					
1/3/2017		<0.003					<0.003		
1/4/2017			<0.003					<0.003	
1/5/2017						<0.003			<0.003
1/6/2017	0.0009 (J)			<0.003	<0.003				
4/3/2017						<0.003	<0.003		
4/4/2017			<0.003		<0.003				<0.003
4/5/2017								<0.003	
4/6/2017	<0.003	<0.003		<0.003					
7/10/2017									
7/11/2017						<0.003	<0.003		<0.003
7/12/2017		<0.003	<0.003	<0.003	<0.003			<0.003	
7/13/2017	0.0013 (J)								
10/2/2017						<0.003	<0.003		<0.003
10/3/2017		<0.003	<0.003					<0.003	
10/4/2017	0.0008 (J)			<0.003	<0.003				
1/9/2018	<0.003					<0.003	<0.003		<0.003
1/10/2018		<0.003	<0.003					<0.003	

ND substitution: RL or RL/2 if <15% NDs.

Prediction Limit

Constituent: Antimony (mg/L) Analysis Run 12/13/2024 1:28 PM View: Appendix I

Grumman Road Landfill Client: Southern Company Data: Grumman Road Landfill

	GWA-7 (bg)	GWB-5R	GWC-1	GWC-9	GWB-4R	GWC-15	GWA-8 (bg)	GWC-16	GWC-14
1/11/2018				<0.003	<0.003				
7/9/2018							<0.003		<0.003
7/10/2018		<0.003	<0.003			<0.003		<0.003	
7/11/2018	<0.003			<0.003	<0.003				
1/16/2019	<0.003	<0.003	<0.003		<0.003		<0.003		<0.003
1/17/2019						<0.003		<0.003	
1/18/2019				<0.003					
1/21/2019									
3/25/2019	<0.003				<0.003		<0.003		
3/26/2019		<0.003	<0.003			<0.003		<0.003	<0.003
3/27/2019				<0.003					
7/30/2019									
8/26/2019	<0.003						<0.003		
8/27/2019			<0.003		<0.003	<0.003			<0.003
8/28/2019		0.00054 (J)		<0.003				<0.003	
10/7/2019							<0.003		
10/8/2019	<0.003					<0.003		<0.003	<0.003
10/9/2019		<0.003	<0.003	<0.003	<0.003				
4/6/2020	<0.003						<0.003		
4/7/2020		<0.003	<0.003		<0.003	<0.003		<0.003	<0.003
4/8/2020				0.00033 (J)					
8/17/2020							<0.003		
8/18/2020						<0.003		<0.003	<0.003
8/19/2020	<0.003	<0.003	0.00061 (J)	<0.003	<0.003				
9/28/2020	<0.003		0.00035 (J)				<0.003		
9/29/2020									<0.003
9/30/2020		0.0003 (J)				<0.003		<0.003	
10/1/2020				<0.003	<0.003				
3/10/2021		<0.003	0.00069 (J)	<0.003	<0.003				
3/11/2021	<0.003								
3/12/2021						0.0018 (J)	<0.003		
3/15/2021									
3/16/2021								<0.003	<0.003
9/21/2021	<0.003	0.0013 (J)			<0.003		<0.003		
9/22/2021				<0.003				<0.003	<0.003
9/23/2021			0.0016 (J)			<0.003			
1/31/2022	<0.003						<0.003		
2/1/2022								<0.003	
2/2/2022				<0.003	<0.003				<0.003
2/3/2022		<0.003	<0.003			<0.003			
8/30/2022	<0.003	<0.003			<0.003		<0.003		<0.003
8/31/2022						<0.003			
9/1/2022			<0.003	<0.003				<0.003	
1/31/2023	<0.003						<0.003		
2/1/2023		<0.003		<0.003				<0.003	
2/2/2023			<0.003		<0.003	<0.003			<0.003
8/28/2023	<0.003						<0.003		
8/29/2023		<0.003	<0.003	<0.003	<0.003				
9/6/2023								<0.003	<0.003
9/7/2023						<0.003			
1/23/2024	<0.003		<0.003				<0.003		
1/24/2024				<0.003		<0.003			

ND substitution: RL or RL/2 if <15% NDs.

Prediction Limit

Constituent: Antimony (mg/L) Analysis Run 12/13/2024 1:28 PM View: Appendix I

Grumman Road Landfill Client: Southern Company Data: Grumman Road Landfill

	GWA-7 (bg)	GWB-5R	GWC-1	GWC-9	GWB-4R	GWC-15	GWA-8 (bg)	GWC-16	GWC-14
1/25/2024								<0.003	<0.003
2/7/2024					<0.003				
2/8/2024		<0.003							
8/19/2024	<0.003								
8/20/2024			<0.003		<0.003				
8/21/2024		<0.003		<0.003		<0.003	<0.003	<0.003	<0.003
8/22/2024									

ND substitution: RL or RL/2 if <15% NDs.

Prediction Limit

Constituent: Antimony (mg/L) Analysis Run 12/13/2024 1:28 PM View: Appendix I

Grumman Road Landfill Client: Southern Company Data: Grumman Road Landfill

	GWC-11	GWB-6R	GWC-12	GWC-17	GWC-13	GWC-2	GWC-20	GWC-21	GWC-22
9/29/2000	<0.003	<0.003	<0.003	<0.003	<0.003				
11/21/2000	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003			
1/20/2001	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003			
3/14/2001	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003			
7/16/2001	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003			
11/1/2001	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003			
4/25/2002	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003			
11/20/2002	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003			
6/6/2003	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003			
12/12/2003	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003			
5/26/2004	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003			
12/7/2004	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003			
6/21/2005	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003			
12/12/2005	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003			
4/4/2006									
6/27/2006	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003			
8/30/2006									
12/4/2006	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003			
2/15/2007									
6/23/2007	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003			
9/11/2007									
12/11/2007	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003			
3/11/2008									
6/23/2008	<0.003		<0.003		<0.003				
6/24/2008		<0.003		<0.003		<0.003			
11/3/2008									
12/4/2008	<0.003		<0.003		<0.003	<0.003			
12/5/2008		<0.003		<0.003					
3/25/2009									
7/7/2009		<0.003							
7/8/2009	<0.003		<0.003	<0.003	<0.003	<0.003			
9/14/2009									
12/20/2009						<0.003			
12/21/2009	<0.003	<0.003	<0.003	<0.003	<0.003				
3/4/2010									
6/20/2010	<0.003	<0.003	<0.003		<0.003	<0.003			
6/21/2010				<0.003			<0.003	<0.003	<0.003
9/14/2010									
1/6/2011	<0.003				<0.003	<0.003			
1/7/2011		<0.003	<0.003	<0.003			<0.003	<0.003	<0.003
4/15/2011									
7/7/2011	<0.003	<0.003	<0.003		<0.003		<0.003		
7/8/2011				<0.003			<0.003	<0.003	<0.003
9/25/2011									
1/17/2012	<0.003		<0.003		<0.003	<0.003			
1/18/2012		<0.003		<0.003			<0.003	<0.003	<0.003
4/4/2012									
7/9/2012	<0.003		<0.003		<0.003	<0.003			
7/10/2012		<0.003		<0.003			<0.003	<0.003	<0.003
10/9/2012									
1/17/2013	<0.003		<0.003		<0.003	<0.003			
1/18/2013		<0.003		<0.003			<0.003	<0.003	<0.003

ND substitution: RL or RL/2 if <15% NDs.

Prediction Limit

Constituent: Antimony (mg/L) Analysis Run 12/13/2024 1:28 PM View: Appendix I

Grumman Road Landfill Client: Southern Company Data: Grumman Road Landfill

	GWC-11	GWB-6R	GWC-12	GWC-17	GWC-13	GWC-2	GWC-20	GWC-21	GWC-22
4/5/2013									
7/16/2013	<0.003		<0.003		<0.003				
7/17/2013		<0.003		<0.003		<0.003	<0.003	<0.003	<0.003
10/11/2013									
1/13/2014	<0.003		<0.003		<0.003	<0.003			
1/14/2014		<0.003		<0.003			<0.003	<0.003	<0.003
4/3/2014									
7/8/2014	<0.003		<0.003		<0.003				
7/9/2014		<0.003		<0.003		<0.003		<0.003	
7/10/2014							<0.003		<0.003
10/24/2014									
1/12/2015							<0.003		
1/13/2015	<0.003		<0.003		<0.003	<0.003			
1/14/2015		<0.003		<0.003				<0.003	<0.003
5/10/2015									
5/11/2015									
7/16/2015	<0.003		<0.003		<0.003	<0.003			
7/17/2015		<0.003						<0.003	
7/18/2015				<0.003			<0.003		<0.003
10/6/2015									
1/17/2016						<0.003	<0.003	<0.003	
1/18/2016		<0.003	<0.003	<0.003	<0.003				<0.003
1/19/2016	<0.003								
4/26/2016									
7/26/2016	0.0005 (J)				0.0006 (J)				
7/27/2016			<0.003			<0.003			
7/28/2016		<0.003					0.0019 (J)	<0.003	
7/29/2016				<0.003					<0.003
8/30/2016		<0.003							
8/31/2016	<0.003		<0.003		<0.003	<0.003			<0.003
9/1/2016				<0.003			<0.003	<0.003	
10/24/2016									
10/25/2016							<0.003	<0.003	
10/26/2016	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003			<0.003
10/27/2016									
1/3/2017									
1/4/2017	<0.003		<0.003				<0.003	<0.003	<0.003
1/5/2017		<0.003		<0.003	<0.003	<0.003			
1/6/2017									
4/3/2017									
4/4/2017						<0.003	<0.003	<0.003	
4/5/2017			<0.003	<0.003					
4/6/2017	0.0006 (J)	<0.003			<0.003				<0.003
7/10/2017			<0.003						
7/11/2017	0.0009 (J)						<0.003		<0.003
7/12/2017		<0.003			<0.003				
7/13/2017				<0.003		<0.003		<0.003	
10/2/2017							<0.003		
10/3/2017	<0.003	<0.003				<0.003		<0.003	
10/4/2017			<0.003	<0.003	<0.003				<0.003
1/9/2018		<0.003						<0.003	
1/10/2018					<0.003	<0.003	<0.003		

ND substitution: RL or RL/2 if <15% NDs.

Prediction Limit

Constituent: Antimony (mg/L) Analysis Run 12/13/2024 1:28 PM View: Appendix I

Grumman Road Landfill Client: Southern Company Data: Grumman Road Landfill

	GWC-11	GWB-6R	GWC-12	GWC-17	GWC-13	GWC-2	GWC-20	GWC-21	GWC-22
1/11/2018	0.0007 (J)		<0.003	<0.003					<0.003
7/9/2018							<0.003		
7/10/2018		<0.003				<0.003		<0.003	
7/11/2018	<0.003		<0.003	<0.003	<0.003				<0.003
1/16/2019		<0.003		<0.003	<0.003				
1/17/2019	<0.003		<0.003					<0.003	
1/18/2019									<0.003
1/21/2019						<0.003	<0.003		
3/25/2019							<0.003		
3/26/2019		<0.003		<0.003	<0.003			<0.003	
3/27/2019	<0.003		<0.003						<0.003
7/30/2019						<0.003			
8/26/2019									
8/27/2019	0.00033 (J)	<0.003	<0.003		<0.003	<0.003			0.00045 (J)
8/28/2019				<0.003			<0.003	<0.003	
10/7/2019									
10/8/2019	0.00046 (J)				<0.003			<0.003	
10/9/2019		<0.003	<0.003	<0.003		<0.003	<0.003		<0.003
4/6/2020									
4/7/2020	0.00066 (J)	<0.003	<0.003					<0.003	0.00049 (J)
4/8/2020				<0.003	<0.003	0.0013 (J)	<0.003		
8/17/2020			<0.003		<0.003				
8/18/2020	0.00064 (J)			<0.003		<0.003	<0.003	<0.003	0.0022 (J)
8/19/2020		<0.003							
9/28/2020					<0.003				
9/29/2020	0.00051 (J)		<0.003			0.0016 (J)			
9/30/2020		0.00059 (J)		<0.003			<0.003	0.00033 (J)	0.0016 (J)
10/1/2020									
3/10/2021	0.00076 (J)	0.00029 (J)	0.0003 (J)						0.0004 (J)
3/11/2021				0.00039 (J)					
3/12/2021							0.00065 (J)		
3/15/2021					<0.003	<0.003			
3/16/2021								<0.003	
9/21/2021	<0.003	<0.003	<0.003		<0.003				<0.003
9/22/2021				0.0014 (J)		<0.003	<0.003	<0.003	
9/23/2021									
1/31/2022									
2/1/2022				<0.003			<0.003	<0.003	
2/2/2022		<0.003				<0.003			
2/3/2022	<0.003		<0.003		<0.003				<0.003
8/30/2022		<0.003	<0.003				<0.003	<0.003	
8/31/2022	<0.003			<0.003	<0.003				<0.003
9/1/2022						<0.003			
1/31/2023									
2/1/2023	<0.003	<0.003	<0.003	0.00286 (J)	<0.003		<0.003		
2/2/2023						<0.003		<0.003	<0.003
8/28/2023									
8/29/2023		<0.003		<0.003	<0.003	<0.003			<0.003
9/6/2023	<0.003		<0.003				<0.003	<0.003	
9/7/2023									
1/23/2024		<0.003							<0.003
1/24/2024	<0.003			0.00245 (J)			<0.003		

ND substitution: RL or RL/2 if <15% NDs.

Prediction Limit

Constituent: Antimony (mg/L) Analysis Run 12/13/2024 1:28 PM View: Appendix I

Grumman Road Landfill Client: Southern Company Data: Grumman Road Landfill

	GWC-11	GWB-6R	GWC-12	GWC-17	GWC-13	GWC-2	GWC-20	GWC-21	GWC-22
1/25/2024			<0.003		<0.003	<0.003		<0.003	
2/7/2024									
2/8/2024									
8/19/2024									
8/20/2024		<0.003							
8/21/2024	<0.003		<0.003	<0.003	<0.003	<0.003	<0.003		<0.003
8/22/2024								<0.003	

Prediction Limit

Constituent: Arsenic (mg/L) Analysis Run 12/13/2024 1:28 PM View: Appendix I

Grumman Road Landfill Client: Southern Company Data: Grumman Road Landfill

	GWA-7 (bg)	GWC-11	GWC-12	GWC-13	GWC-1	GWC-14	GWA-8 (bg)	GWB-6R	GWC-17
9/29/2000	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
11/21/2000	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005		<0.005	<0.005
1/20/2001	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	0.014	<0.005
3/14/2001	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
7/16/2001	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
11/1/2001	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
4/25/2002	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
11/20/2002		<0.005	<0.005	<0.005	<0.005	0.011	<0.005	0.014	<0.005
6/6/2003	0.02	<0.005	<0.005	<0.005	0.03	<0.005	<0.005	0.014	<0.005
12/12/2003	<0.005	<0.005	<0.005	0.0064	<0.005	<0.005	<0.005	<0.005	<0.005
5/26/2004	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	0.0082	<0.005
12/7/2004	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	0.0062	<0.005
6/21/2005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
12/12/2005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
4/4/2006						<0.005	<0.005		
6/27/2006	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
8/30/2006						<0.005	<0.005		
12/4/2006	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
2/15/2007						<0.005	<0.005		
6/23/2007	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	0.0053	<0.005
9/11/2007						<0.005	<0.005		
12/11/2007	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	0.0057	<0.005
3/11/2008						<0.005	<0.005		
6/23/2008	<0.005	<0.005	<0.005	<0.005			<0.005		
6/24/2008					<0.005	<0.005		0.012	<0.005
11/3/2008						<0.005	<0.005		
12/4/2008	<0.005	<0.005	<0.005	<0.005		<0.005	<0.005		
12/5/2008					<0.005			0.0064	<0.005
3/25/2009						<0.005	<0.005		
7/7/2009	<0.005				<0.005		<0.005	<0.005	
7/8/2009		<0.005	<0.005	<0.005		<0.005			<0.005
9/14/2009						<0.005	<0.005		
12/20/2009	<0.005				<0.005	<0.005	<0.005		
12/21/2009		<0.005	<0.005	<0.005				<0.005	<0.005
3/4/2010						<0.005	<0.005		
6/20/2010	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	0.017	
6/21/2010									<0.005
9/14/2010						<0.005	<0.005		
1/6/2011		<0.005		<0.005	<0.005				
1/7/2011	<0.005		<0.005			<0.005	<0.005	<0.005	<0.005
4/15/2011						<0.005	<0.005		
7/7/2011	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	
7/8/2011									<0.005
9/25/2011						<0.005	<0.005		
1/17/2012	<0.005	<0.005	<0.005	<0.005	0.0071	<0.005	<0.005		
1/18/2012								<0.005	<0.005
4/4/2012						<0.005	<0.005		
7/9/2012	0.0052	<0.005	<0.005	<0.005	0.0076	<0.005			
7/10/2012							<0.005	<0.005	<0.005
10/9/2012						<0.005	<0.005		
1/17/2013		<0.005	<0.005	<0.005	0.0086				
1/18/2013	0.0087					<0.005	<0.005	<0.005	<0.005

ND substitution: RL or RL/2 if <15% NDs.

Prediction Limit

Constituent: Arsenic (mg/L) Analysis Run 12/13/2024 1:28 PM View: Appendix I

Grumman Road Landfill Client: Southern Company Data: Grumman Road Landfill

	GWA-7 (bg)	GWC-11	GWC-12	GWC-13	GWC-1	GWC-14	GWA-8 (bg)	GWB-6R	GWC-17
4/5/2013						<0.005	<0.005		
7/16/2013		<0.005	<0.005	<0.005	<0.005				
7/17/2013	0.0084					<0.005	<0.005	<0.005	<0.005
10/11/2013						0.005	<0.005		
1/13/2014	0.009	<0.005	<0.005	<0.005	<0.005				
1/14/2014						<0.005	<0.005	<0.005	<0.005
4/3/2014						<0.005	<0.005		
7/8/2014		<0.005	<0.005	<0.005					
7/9/2014	0.008				0.0022 (J)	<0.005	<0.005	<0.005	<0.005
7/10/2014									
10/24/2014						<0.005	<0.005		
1/12/2015									
1/13/2015	0.0077	<0.005	<0.005	<0.005	<0.005				
1/14/2015						<0.005	<0.005	<0.005	<0.005
5/10/2015						<0.005	<0.005		
5/11/2015									
7/16/2015	0.0077	<0.005	<0.005	<0.005	0.0037 (J)				
7/17/2015						<0.005	<0.005	<0.005	
7/18/2015									<0.005
10/6/2015						<0.005	<0.005		
1/17/2016					0.024	0.002 (J)			
1/18/2016	0.014		<0.005	<0.005			<0.005	<0.005	<0.005
1/19/2016		<0.005							
4/26/2016						0.00183 (J)	0.0011 (J)		
7/26/2016		<0.005		<0.005					
7/27/2016	0.0111		<0.005		0.0046 (J)	0.0021 (J)			
7/28/2016							<0.005	0.0009 (J)	
7/29/2016									0.0009 (J)
8/30/2016					0.0023 (J)		<0.005	<0.005	
8/31/2016		<0.005	<0.005	<0.005					
9/1/2016	0.0287					0.0024 (J)			<0.005
10/24/2016							<0.005		
10/25/2016	0.0069				0.0035 (J)	<0.005			
10/26/2016		<0.005	<0.005	<0.005				<0.005	<0.005
10/27/2016									
1/3/2017							<0.005		
1/4/2017		<0.005	<0.005		0.0018 (J)				
1/5/2017				<0.005		0.0024 (J)		0.0021 (J)	<0.005
1/6/2017	0.0097								
4/3/2017							0.0006 (J)		
4/4/2017					0.0015 (J)	0.003 (J)			
4/5/2017			0.0006 (J)						0.0011 (J)
4/6/2017	0.0104	<0.005		<0.005				0.0011 (J)	
7/10/2017			0.0008 (J)						
7/11/2017		<0.005				0.0019 (J)	0.0006 (J)		
7/12/2017				<0.005	0.0015 (J)			0.0014 (J)	
7/13/2017	0.0064								0.0016 (J)
10/2/2017						0.0026 (J)	0.0006 (J)		
10/3/2017		<0.005			0.0013 (J)			0.0014 (J)	
10/4/2017	0.0078		0.0009 (J)	<0.005					0.0019 (J)
1/9/2018	0.0091 (J)					0.0021 (J)	0.0009 (J)	0.0017 (J)	
1/10/2018				0.0006 (J)	0.0023 (J)				

ND substitution: RL or RL/2 if <15% NDs.

Prediction Limit

Constituent: Arsenic (mg/L) Analysis Run 12/13/2024 1:28 PM View: Appendix I

Grumman Road Landfill Client: Southern Company Data: Grumman Road Landfill

	GWA-7 (bg)	GWC-11	GWC-12	GWC-13	GWC-1	GWC-14	GWA-8 (bg)	GWB-6R	GWC-17
1/11/2018		<0.005	<0.005						0.0015 (J)
7/9/2018						0.0019 (J)	<0.005		
7/10/2018					0.0031 (J)			0.00063 (J)	
7/11/2018	<0.005	<0.005	<0.005	<0.005					0.00082 (J)
1/16/2019	<0.005			<0.005	0.0023 (J)	0.0016 (J)	<0.005	<0.005	<0.005
1/17/2019		<0.005	<0.005						
1/18/2019									
1/21/2019									
3/25/2019	0.0029 (J)						<0.005		
3/26/2019				0.00058 (J)	0.0032 (J)	0.0023 (J)		0.0029 (J)	0.0015 (J)
3/27/2019		<0.005	<0.005						
7/30/2019									
8/26/2019	0.0041 (J)						<0.005		
8/27/2019		<0.005	<0.005	<0.005	0.0022 (J)	0.0017 (J)		0.0035 (J)	
8/28/2019									0.0011 (J)
10/7/2019							<0.005		
10/8/2019	0.003 (J)	<0.005		<0.005		0.0017 (J)			
10/9/2019			<0.005		0.0042 (J)			0.0018 (J)	0.0011 (J)
4/6/2020	<0.005						0.00045 (J)		
4/7/2020		<0.005	<0.005		0.027	0.0018 (J)		<0.005	
4/8/2020				<0.005					0.0013 (J)
8/17/2020			<0.005	<0.005			<0.005		
8/18/2020		<0.005				0.0012 (J)			<0.005
8/19/2020	0.006 (J)				0.007			0.0036 (J)	
9/28/2020	<0.005			<0.005	0.0058		<0.005		
9/29/2020		<0.005	<0.005			<0.005			
9/30/2020								0.004 (J)	0.0012 (J)
10/1/2020									
3/10/2021		<0.005	<0.005		0.0055			0.0054	
3/11/2021	0.0047 (J)								0.0009 (J)
3/12/2021							<0.005		
3/15/2021				<0.005					
3/16/2021						<0.005			
9/21/2021	<0.005	<0.005	<0.005	<0.005			<0.005	0.0054	
9/22/2021						0.0014 (J)			<0.005
9/23/2021					0.0048 (J)				
1/31/2022	<0.005						<0.005		
2/1/2022									<0.005
2/2/2022						0.0036 (J)		0.01	
2/3/2022		<0.005	0.0016 (J)	0.0025 (J)	0.0057				
8/30/2022	0.00321 (J)		<0.005			<0.005	<0.005	0.00716	
8/31/2022		<0.005		<0.005					<0.005
9/1/2022					0.00568				
1/31/2023	0.0025 (J)						<0.005		
2/1/2023		<0.005	<0.005	<0.005				0.0042 (J)	<0.005
2/2/2023					0.00433 (J)	0.00261 (J)			
8/28/2023	0.0039 (J)						<0.005		
8/29/2023				<0.005	0.00668			0.00724	<0.005
9/6/2023		0.00254 (J)	<0.005			0.00244 (J)			
9/7/2023									
1/23/2024	0.00432 (J)				0.00609		0.00216 (J)	0.00451 (J)	
1/24/2024		<0.005							<0.005

ND substitution: RL or RL/2 if <15% NDs.

Prediction Limit

Constituent: Arsenic (mg/L) Analysis Run 12/13/2024 1:28 PM View: Appendix I

Grumman Road Landfill Client: Southern Company Data: Grumman Road Landfill

	GWA-7 (bg)	GWC-11	GWC-12	GWC-13	GWC-1	GWC-14	GWA-8 (bg)	GWB-6R	GWC-17
1/25/2024			<0.005	<0.005		0.00216 (J)			
2/7/2024									
2/8/2024									
8/19/2024	0.00287 (J)								
8/20/2024					0.0131			0.0056	
8/21/2024		<0.005	<0.005	<0.005		<0.005	<0.005		<0.005
8/22/2024									

ND substitution: RL or RL/2 if <15% NDs.

Prediction Limit

Constituent: Arsenic (mg/L) Analysis Run 12/13/2024 1:28 PM View: Appendix I

Grumman Road Landfill Client: Southern Company Data: Grumman Road Landfill

	GWB-5R	GWB-4R	GWC-9	GWC-16	GWC-2	GWC-20	GWC-21	GWC-22	GWC-15
9/29/2000	<0.005	<0.005	<0.005	0.094					<0.01
11/21/2000	<0.005	<0.005	<0.005	0.059	<0.005				<0.01
1/20/2001	<0.005	0.01	<0.005	0.087	<0.005				<0.01
3/14/2001	<0.005	<0.005	<0.005	0.075	<0.005				<0.01
7/16/2001	0.014	<0.005	<0.005	0.11	<0.005				<0.01
11/1/2001	0.023	<0.005	<0.005	0.098	<0.005				<0.01
4/25/2002	<0.005	<0.005	<0.005	0.071	<0.005				<0.005
11/20/2002	0.022	0.0096	<0.005	0.15	<0.005				<0.005
6/6/2003	0.07	0.0076	<0.005	1.2 (O)	<0.005				<0.005
12/12/2003	<0.005	0.0058	<0.005	0.27 (O)	<0.005				<0.005
5/26/2004	0.0074	0.0068	<0.005	0.12	<0.005				<0.005
12/7/2004	0.017	0.0066	<0.005	0.098	<0.005				<0.005
6/21/2005	0.013	<0.005	<0.005	0.065	<0.005				<0.005
12/12/2005	<0.005	<0.005	<0.005	0.081	<0.005				<0.005
4/4/2006				0.077					
6/27/2006	<0.005	<0.005	<0.005	0.071	<0.005				<0.005
8/30/2006				0.08					
12/4/2006	<0.005	<0.005	<0.005	0.085	<0.005				<0.005
2/15/2007				0.09					
6/23/2007	<0.005	<0.005	<0.005	0.12	<0.005				<0.005
9/11/2007				0.088					
12/11/2007	<0.005	<0.005	<0.005	0.088	<0.005				<0.005
3/11/2008				0.071					
6/23/2008			<0.005						
6/24/2008	<0.005	0.005		0.097	<0.005				<0.005
11/3/2008				0.089					
12/4/2008			<0.005		<0.005				
12/5/2008	<0.005	<0.005		0.092					<0.005
3/25/2009				0.095					
7/7/2009	<0.005	<0.005							
7/8/2009			<0.005	0.11	<0.005				0.0052
9/14/2009				0.099					
12/20/2009				0.1	<0.005				<0.005
12/21/2009	<0.005	<0.005	<0.005						
3/4/2010				0.074					
6/20/2010	<0.005		<0.005		<0.005				0.0068
6/21/2010		0.018		0.056		0.29	0.013	<0.005	
9/14/2010				0.067					
1/6/2011	<0.005				<0.005				
1/7/2011		<0.005	<0.005	0.066		0.2	<0.005	<0.005	<0.005
4/15/2011				0.08					
7/7/2011	<0.005			0.054		<0.005			<0.005
7/8/2011		<0.005	<0.005			0.19	<0.005	<0.005	
9/25/2011				0.085					
1/17/2012	<0.005				<0.005				<0.005
1/18/2012		<0.005	<0.005	0.089		0.058	<0.005	<0.005	
4/4/2012				0.0473					
7/9/2012	<0.005				<0.005				<0.005
7/10/2012		0.0052	<0.005	0.07		0.18	<0.005	<0.005	
10/9/2012				0.088					
1/17/2013	<0.005				<0.005				
1/18/2013		<0.005	<0.005	0.063		0.22	0.0061	<0.005	0.0089

ND substitution: RL or RL/2 if <15% NDs.

Prediction Limit

Constituent: Arsenic (mg/L) Analysis Run 12/13/2024 1:28 PM View: Appendix I

Grumman Road Landfill Client: Southern Company Data: Grumman Road Landfill

	GWB-5R	GWB-4R	GWC-9	GWC-16	GWC-2	GWC-20	GWC-21	GWC-22	GWC-15
4/5/2013				0.06					
7/16/2013	<0.005								
7/17/2013		<0.005	<0.005	0.063	<0.005	0.45	<0.005	<0.005	0.011
10/11/2013				0.059					
1/13/2014	<0.005				<0.005				0.017
1/14/2014		<0.005	<0.005	0.077		0.52	0.006	<0.005	
4/3/2014				0.091					
7/8/2014									
7/9/2014	<0.005	0.0023 (J)	<0.005	0.08	<0.005		<0.005		0.014
7/10/2014						0.4		0.0027 (J)	
10/24/2014				0.073					
1/12/2015		0.0028 (J)				0.43			
1/13/2015	<0.005				<0.005				0.011
1/14/2015			<0.005	0.079			<0.005	<0.005	
5/10/2015									
5/11/2015				0.058					
7/16/2015	<0.005	<0.005		0.068	<0.005				0.02
7/17/2015			<0.005				<0.005		
7/18/2015						0.26		<0.005	
10/6/2015				0.078					
1/17/2016				0.089	<0.005	0.34	0.0065		0.014
1/18/2016	<0.005	<0.005	<0.005					<0.005	
1/19/2016									
4/26/2016				0.0731					
7/26/2016									
7/27/2016	0.0008 (J)				<0.005				0.0303
7/28/2016			<0.005	0.0627		0.209	<0.005		
7/29/2016		0.0014 (J)						0.002 (J)	
8/30/2016	<0.005								
8/31/2016			<0.005		<0.005			0.0017 (J)	
9/1/2016		0.0033 (J)		0.0551		0.215	0.0039 (J)		0.0533
10/24/2016									
10/25/2016				0.0466		0.307	<0.005		0.0551
10/26/2016	<0.005	0.0016 (J)			<0.005			<0.005	
10/27/2016			<0.005						
1/3/2017	<0.005								
1/4/2017				0.0444		0.311	<0.005	<0.005	
1/5/2017					<0.005				0.0437
1/6/2017		<0.005	<0.005						
4/3/2017									0.0713
4/4/2017		0.0021 (J)			<0.005	0.317	0.0031 (J)		
4/5/2017				0.0591					
4/6/2017	0.0006 (J)		<0.005					0.0006 (J)	
7/10/2017									
7/11/2017						0.299		0.0012 (J)	0.0745
7/12/2017	0.0009 (J)	0.0015 (J)	<0.005	0.0776					
7/13/2017					<0.005		<0.005		
10/2/2017						0.216			0.0723
10/3/2017	0.001 (J)			0.0813	<0.005		<0.005		
10/4/2017		0.0018 (J)	<0.005					0.0025 (J)	
1/9/2018							0.0033 (J)		0.0731
1/10/2018	0.0012 (J)			0.085	0.0006 (J)	0.347			

ND substitution: RL or RL/2 if <15% NDs.

Prediction Limit

Constituent: Arsenic (mg/L) Analysis Run 12/13/2024 1:28 PM View: Appendix I

Grumman Road Landfill Client: Southern Company Data: Grumman Road Landfill

	GWB-5R	GWB-4R	GWC-9	GWC-16	GWC-2	GWC-20	GWC-21	GWC-22	GWC-15
1/11/2018		0.0015 (J)	<0.005					0.0006 (J)	
7/9/2018						0.37			
7/10/2018	0.0016 (J)			0.067	<0.005		0.0027 (J)		0.09
7/11/2018		0.00095 (J)	<0.005					0.0011 (J)	
1/16/2019	0.0011 (J)	0.0024 (J)							
1/17/2019				0.079			0.0022 (J)		0.13
1/18/2019			<0.005					<0.005	
1/21/2019					<0.005	0.44			
3/25/2019		0.0029 (J)				0.41			
3/26/2019	0.0014 (J)			0.089			0.0045 (J)		0.1
3/27/2019			<0.005					<0.005	
7/30/2019					0.00039 (J)				
8/26/2019									
8/27/2019		0.0023 (J)			<0.005			0.00044 (J)	0.17
8/28/2019	0.0023 (J)		<0.005	0.091		0.43	0.002 (J)		
10/7/2019									
10/8/2019				0.088			0.0028 (J)		0.13
10/9/2019	0.0053 (J)	0.0024 (J)	<0.005		<0.005	0.35		<0.005	
4/6/2020									
4/7/2020	0.0011 (J)	0.0027 (J)		0.091			<0.005	0.00043 (J)	0.24
4/8/2020			0.00084 (J)		0.00094 (J)	0.33			
8/17/2020									
8/18/2020				0.045	<0.005	0.3	0.0059	<0.005	0.28
8/19/2020	0.0019 (J)	0.0033 (J)	<0.005						
9/28/2020									
9/29/2020					<0.005				
9/30/2020	0.0017 (J)			0.044		0.31	0.0029 (J)	<0.005	0.24
10/1/2020		0.0027 (J)	<0.005						
3/10/2021	0.0019 (J)	0.0025 (J)	<0.005					<0.005	
3/11/2021									
3/12/2021						0.27			0.16
3/15/2021					<0.005				
3/16/2021				0.064			0.0098		
9/21/2021	<0.005	0.0027 (J)						<0.005	
9/22/2021			<0.005	0.081	<0.005	0.23	<0.005		
9/23/2021									0.21
1/31/2022									
2/1/2022				0.095		0.22	0.02		
2/2/2022		0.0036 (J)	<0.005		<0.005				
2/3/2022	0.0029 (J)							<0.005	0.23
8/30/2022	0.00253 (J)	0.0049 (J)				0.465	0.0271		
8/31/2022								<0.005	0.259
9/1/2022			<0.005	0.0987	<0.005				
1/31/2023									
2/1/2023	0.00295 (J)		<0.005	0.115		0.389			
2/2/2023		0.00556			<0.005		0.0323	<0.005	0.207
8/28/2023									
8/29/2023	0.00239 (J)	0.0057	<0.005		<0.005			0.00216 (J)	
9/6/2023				0.12		0.258	0.0323		
9/7/2023									0.287
1/23/2024								<0.005	
1/24/2024			<0.005			0.552			0.177

ND substitution: RL or RL/2 if <15% NDs.

Prediction Limit

Constituent: Arsenic (mg/L) Analysis Run 12/13/2024 1:28 PM View: Appendix I

Grumman Road Landfill Client: Southern Company Data: Grumman Road Landfill

	GWB-5R	GWB-4R	GWC-9	GWC-16	GWC-2	GWC-20	GWC-21	GWC-22	GWC-15
1/25/2024				0.131	<0.005		0.0319		
2/7/2024		0.00903							
2/8/2024	0.0071								
8/19/2024									
8/20/2024		0.00377 (J)							
8/21/2024	0.00237 (J)		<0.005	0.131	<0.005	0.423		<0.005	0.183
8/22/2024							0.00929		

ND substitution: RL or RL/2 if <15% NDs.

Prediction Limit

Constituent: Barium (mg/L) Analysis Run 12/13/2024 1:28 PM View: Appendix I

Grumman Road Landfill Client: Southern Company Data: Grumman Road Landfill

	GWA-7 (bg)	GWC-17	GWB-4R	GWC-13	GWA-8 (bg)	GWC-15	GWC-12	GWB-5R	GWC-16
9/29/2000	0.11	0.16	0.16	<0.005	0.16	0.028	0.075	0.22	0.076
11/21/2000	0.12	0.17	0.16	0.01		0.035	0.072	0.13	0.075
1/20/2001	0.11	0.16	0.21	<0.005	0.18	0.032	0.086	0.19	0.053
3/14/2001	0.11	0.17	0.18	0.01	0.14	0.036	0.088	0.27	0.055
7/16/2001	0.11	0.19	0.18	<0.005	0.14	0.036	0.084	0.37	0.041
11/1/2001	0.11	0.18	0.15	<0.005	0.14	0.036	0.13	0.61 (O)	0.045
4/25/2002	0.058	0.15	0.16	<0.005	0.088	0.045	0.24 (O)	0.19	0.055
6/6/2003	0.19	0.13	0.29	0.028	0.14	0.083	0.28 (O)	0.72 (O)	0.48 (O)
12/12/2003	0.1	0.18	0.18	0.019	0.13	0.094	0.27 (O)	0.054	0.13
5/26/2004	0.084	0.17	0.16	<0.005	0.09	0.034	0.31 (O)	0.18	0.055
12/7/2004	0.094	0.19	0.16	0.009	0.11	0.042	0.46 (O)	0.24	0.072
6/21/2005	0.089	0.18	0.15	0.0089	0.084	0.039	0.053	0.2	0.061
12/12/2005	0.089	0.17	0.15	0.026	0.1	0.043	0.1	0.074	0.047
4/4/2006					0.089				0.042
6/27/2006	0.096	0.17	0.19	0.029	0.1	0.031	0.098	0.075	0.042
8/30/2006					0.12				0.05
12/4/2006	0.092	0.21	0.26	0.017	0.086	0.043	0.068	0.092	0.044
2/15/2007					0.088				0.041
6/23/2007	0.08	0.17	0.24	0.014	0.089	0.031	0.042	0.089	0.044
9/11/2007					0.092				0.04
12/11/2007	0.067	0.18	0.21	0.011	0.077	0.044	0.04	0.072	0.0035
3/11/2008					0.082				0.034
6/23/2008	0.056			0.018	0.086		0.041		
6/24/2008		0.14	0.13			0.057		0.049	0.042
11/3/2008					0.088				0.049
12/4/2008	0.054			0.019	0.081		0.035		
12/5/2008		0.19	0.12			0.041		0.067	0.05
3/25/2009					0.069				0.052
7/7/2009	0.034		0.17		0.078			0.04	
7/8/2009		0.2		0.011		0.058	0.036		0.046
9/14/2009					0.079				0.048
12/20/2009	0.034				0.081	0.062			0.062
12/21/2009		0.23	0.2	0.01			0.028	0.044	
3/4/2010					0.065				0.058
6/20/2010	0.062			0.0081	0.078	0.03	0.025	0.036	
6/21/2010		0.25	0.22						0.041
9/14/2010					0.076				0.036
1/6/2011				0.012				0.075	
1/7/2011	0.039	0.21	0.12		0.074	0.049	0.037		0.054
4/15/2011					0.065				0.049
7/7/2011	0.036			0.015	0.081	0.05	0.039	0.13	0.063
7/8/2011		0.13	0.15						
9/25/2011					0.078				0.037
1/17/2012	0.041			0.0086	0.082	0.044	0.045	0.21	
1/18/2012		0.26	0.15						0.034
4/4/2012					0.0861				0.0446
7/9/2012	0.15			0.01		0.045	0.032	0.2	
7/10/2012		0.19	0.14		0.082				0.033
10/9/2012					0.09				0.041
1/17/2013				0.014			0.033	0.19	
1/18/2013	0.15	0.17	0.15		0.083	0.049			0.036
4/5/2013					0.078				0.036

ND substitution: RL or RL/2 if <15% NDs.

Prediction Limit

Constituent: Barium (mg/L) Analysis Run 12/13/2024 1:28 PM View: Appendix I

Grumman Road Landfill Client: Southern Company Data: Grumman Road Landfill

	GWA-7 (bg)	GWC-17	GWB-4R	GWC-13	GWA-8 (bg)	GWC-15	GWC-12	GWB-5R	GWC-16
7/16/2013				0.012			0.027	0.076	
7/17/2013	0.13	0.18	0.14		0.083	0.039			0.054
10/11/2013					0.078				0.052
1/13/2014	0.16			0.015		0.038	0.027	0.14	
1/14/2014		0.18	0.16		0.081				0.051
4/3/2014					0.077				0.047
7/8/2014				0.017			0.037		
7/9/2014	0.11	0.16	0.12		0.073	0.031		0.12	0.08
7/10/2014									
10/24/2014					0.087				0.072
1/12/2015			0.13						
1/13/2015	0.083			0.019		0.041	0.023	0.13	
1/14/2015		0.16			0.079				0.047
5/10/2015					0.076				
5/11/2015									0.053
7/16/2015	0.094		0.11	0.022		0.041	0.03	0.12	0.059
7/17/2015					0.061				
7/18/2015		0.012							
10/6/2015					0.067				0.053
1/17/2016						0.048			0.056
1/18/2016	0.22	0.13	0.095	0.026	0.068		0.032	0.12	
1/19/2016									
4/26/2016					0.0596				0.0721
7/26/2016				0.0236					
7/27/2016	0.192					0.0487	0.0191	0.112	
7/28/2016					0.0701				0.0534
7/29/2016		0.181	0.0883						
8/30/2016					0.0687			0.135	
8/31/2016				0.0273			0.019		
9/1/2016	0.415 (O)	0.203	0.123			0.0403			0.0445
10/24/2016					0.07				
10/25/2016	0.173					0.0329			0.0464
10/26/2016		0.177	0.0863	0.0238			0.0197	0.103	
10/27/2016									
1/3/2017					0.061			0.118	
1/4/2017							0.0174		0.0379
1/5/2017		0.142		0.0218		0.0392			
1/6/2017	0.167		0.0758						
4/3/2017					0.0612	0.0439			
4/4/2017			0.091						
4/5/2017		0.106					0.0174		0.0534
4/6/2017	0.136			0.0204				0.162	
7/10/2017							0.0172		
7/11/2017					0.0624	0.051			
7/12/2017			0.0941	0.0161				0.157	0.0944
7/13/2017	0.0891	0.0686							
10/2/2017					0.0618	0.047			
10/3/2017								0.127	0.135
10/4/2017	0.113	0.0589	0.0994	0.0185			0.0162		
1/9/2018	0.0901				0.0574	0.0431			
1/10/2018				0.0166				0.158	0.0603
1/11/2018		0.0412	0.088				0.018		

Prediction Limit

Constituent: Barium (mg/L) Analysis Run 12/13/2024 1:28 PM View: Appendix I

Grumman Road Landfill Client: Southern Company Data: Grumman Road Landfill

	GWA-7 (bg)	GWC-17	GWB-4R	GWC-13	GWA-8 (bg)	GWC-15	GWC-12	GWB-5R	GWC-16
7/9/2018					0.056				
7/10/2018						0.047		0.31	0.16
7/11/2018	0.065	0.049	0.071	0.019			0.014		
1/16/2019	0.062	0.063	0.083	0.019	0.062			0.054	
1/17/2019						0.042	0.017		0.13
1/18/2019									
1/21/2019									
3/25/2019	0.054		0.077		0.064				
3/26/2019		0.025		0.026		0.047		0.057	0.14
3/27/2019							0.017		
7/30/2019									
8/26/2019	0.11				0.065				
8/27/2019			0.076	0.024		0.049	0.017		
8/28/2019		0.026						0.1	0.09
10/7/2019					0.069				
10/8/2019	0.1			0.024		0.057			0.13
10/9/2019		0.032	0.076				0.019	0.13	
4/6/2020	0.072				0.057				
4/7/2020			0.09			0.033	0.017	0.098	0.13
4/8/2020		0.055		0.027					
8/17/2020				0.024	0.051		0.018		
8/18/2020		0.074				0.03			0.32
8/19/2020	0.1		0.076					0.1	
9/28/2020	0.095			0.029	0.05				
9/29/2020							0.018		
9/30/2020		0.035				0.034		0.16	0.14
10/1/2020			0.077						
3/10/2021			0.07				0.028	0.096	
3/11/2021	0.07	0.044							
3/12/2021					0.052	0.038			
3/15/2021				0.034					
3/16/2021									0.16
9/21/2021	0.073		0.098	0.037	0.049		0.023	0.076	
9/22/2021		0.058							0.26
9/23/2021						0.062			
1/31/2022	0.1				0.051				
2/1/2022		0.055							0.23
2/2/2022			0.17						
2/3/2022				0.038		0.061	0.025	0.062	
8/30/2022	0.133		0.134		0.0512		0.0275	0.051	
8/31/2022		0.0375		0.0379		0.055			
9/1/2022									0.165
1/31/2023	0.126				0.0499				
2/1/2023		0.0262		0.0367			0.0256	0.101	0.163
2/2/2023			0.101			0.0557			
8/28/2023	0.177				0.0483				
8/29/2023		0.0295	0.16	0.0712				0.0643	
9/6/2023							0.0273		0.143
9/7/2023						0.0573			
1/23/2024	0.236				0.0571				
1/24/2024		0.029				0.0529			
1/25/2024				0.0607			0.0267		0.119

Prediction Limit

Constituent: Barium (mg/L) Analysis Run 12/13/2024 1:28 PM View: Appendix I

Grumman Road Landfill Client: Southern Company Data: Grumman Road Landfill

	GWA-7 (bg)	GWC-17	GWB-4R	GWC-13	GWA-8 (bg)	GWC-15	GWC-12	GWB-5R	GWC-16
2/7/2024			0.178						
2/8/2024								0.168	
8/19/2024	0.201								
8/20/2024			0.214						
8/21/2024		0.0254		0.0526	0.0576	0.0541	0.0236	0.0921	0.111
8/22/2024									

Prediction Limit

Constituent: Barium (mg/L) Analysis Run 12/13/2024 1:28 PM View: Appendix I

Grumman Road Landfill Client: Southern Company Data: Grumman Road Landfill

	GWC-11	GWC-1	GWB-6R	GWC-9	GWC-14	GWC-2	GWC-21	GWC-22	GWC-20
9/29/2000	0.1	0.044	0.16	0.093	0.11				
11/21/2000	0.082	0.047	0.21	0.095	0.15	0.046			
1/20/2001	0.083	0.051	0.23	0.089	0.1	0.036			
3/14/2001	0.075	0.048	0.22	0.088	0.095	0.03			
7/16/2001	0.091	0.054	0.22	0.096	0.28 (O)	0.032			
11/1/2001	0.068	0.063	0.23	0.094	0.16	0.029			
4/25/2002	0.066	0.032	0.15	0.085	0.054	0.021			
6/6/2003	0.085	0.046	0.13	0.09	0.063	0.032			
12/12/2003	0.072	0.034	0.034	0.084	0.041	0.021			
5/26/2004	0.055	0.035	0.13	0.08	0.059	0.035			
12/7/2004	0.066	0.024	0.13	0.098	0.076	0.031			
6/21/2005	0.033	0.039	0.07	0.084	0.042	0.028			
12/12/2005	0.034	0.042	0.04	0.07	0.048	0.024			
4/4/2006					0.05				
6/27/2006	0.029	0.033	0.041	0.083	0.036	0.03			
8/30/2006					0.059				
12/4/2006	0.02	0.04	0.048	0.072	0.062	0.031			
2/15/2007					0.079				
6/23/2007	0.017	0.044	0.12	0.087	0.03	0.037			
9/11/2007					0.053				
12/11/2007	0.013	0.049	0.12	0.082	0.075	0.034			
3/11/2008					0.052				
6/23/2008	0.012			0.1					
6/24/2008		0.038	0.17		0.039	0.038			
11/3/2008					0.082				
12/4/2008	0.011			0.12	0.079	0.038			
12/5/2008		0.06	0.093						
3/25/2009					0.093				
7/7/2009		0.043	0.06						
7/8/2009	0.012			0.14	0.039	0.053			
9/14/2009					0.061				
12/20/2009		0.065			0.088	0.047			
12/21/2009	0.011		0.11	0.15					
3/4/2010					0.077				
6/20/2010	0.0089	0.095	0.11	0.21	0.075	0.046			
6/21/2010							0.16	0.11	0.062
9/14/2010					0.093				
1/6/2011	0.014	0.093				0.063			
1/7/2011			0.025	0.2	0.13		0.095	0.12	0.039
4/15/2011					0.086				
7/7/2011	0.018	0.095	0.025		0.051				0.06
7/8/2011				0.18			0.1	0.094	0.043
9/25/2011					0.056				
1/17/2012	0.23	0.1			0.052	0.06			
1/18/2012			0.03	0.18			0.12	0.087	0.042
4/4/2012					0.0519				
7/9/2012	0.17	0.11			0.048	0.05			
7/10/2012			0.028	0.16			0.097	0.1	0.039
10/9/2012					0.065				
1/17/2013	0.2	0.12				0.058			
1/18/2013			0.058	0.19	0.045		0.1	0.078	0.04
4/5/2013					0.047				

Prediction Limit

Constituent: Barium (mg/L) Analysis Run 12/13/2024 1:28 PM View: Appendix I

Grumman Road Landfill Client: Southern Company Data: Grumman Road Landfill

	GWC-11	GWC-1	GWB-6R	GWC-9	GWC-14	GWC-2	GWC-21	GWC-22	GWC-20
7/16/2013	0.11	0.081							
7/17/2013			0.086	0.17	0.032	0.041	0.069	0.062	0.055
10/11/2013					0.028				
1/13/2014	0.083	0.096				0.058			
1/14/2014			0.1	0.2	0.036		0.086	0.073	0.059
4/3/2014					0.038				
7/8/2014	0.066								
7/9/2014		0.066	0.082	0.16	0.03	0.048	0.065		
7/10/2014								0.13	0.067
10/24/2014					0.025				
1/12/2015									0.061
1/13/2015	0.053	0.068				0.048			
1/14/2015			0.094	0.17	0.04		0.084	0.065	
5/10/2015					0.026				
5/11/2015									
7/16/2015	0.052	0.07				0.048			
7/17/2015			0.11	0.18	0.029		0.071		
7/18/2015								0.073	0.13
10/6/2015					0.03				
1/17/2016		0.062			0.038	0.049	0.079		0.08
1/18/2016			0.11	0.2				0.062	
1/19/2016	0.048								
4/26/2016					0.025				
7/26/2016	0.051								
7/27/2016		0.0417			0.0248	0.0796			
7/28/2016			0.105	0.234			0.0626		0.164
7/29/2016								0.0575	
8/30/2016		0.0545	0.106						
8/31/2016	0.0565			0.284		0.0429		0.0693	
9/1/2016					0.0346		0.077		0.0976
10/24/2016									
10/25/2016		0.0504			0.0248		0.0217		0.0702
10/26/2016	0.0591		0.107			0.113 (O)		0.0966	
10/27/2016				0.244					
1/3/2017									
1/4/2017	0.0598	0.0534					0.0617	0.0975	0.0999
1/5/2017			0.107		0.0245	0.0526			
1/6/2017				0.305					
4/3/2017									
4/4/2017		0.0549			0.0342	0.0503	0.0761		0.136
4/5/2017									
4/6/2017	0.0813		0.111	0.249				0.064	
7/10/2017									
7/11/2017	0.0302				0.0276			0.0778	0.145
7/12/2017		0.0614	0.106	0.256					
7/13/2017						0.0529	0.0428		
10/2/2017					0.0274				0.148
10/3/2017	0.103	0.0436	0.105			0.057	0.0376		
10/4/2017				0.356				0.156	
1/9/2018			0.0969		0.0222		0.0704		
1/10/2018		0.053				0.0527			0.0788
1/11/2018	0.166			0.226				0.0702	

Prediction Limit

Constituent: Barium (mg/L) Analysis Run 12/13/2024 1:28 PM View: Appendix I

Grumman Road Landfill Client: Southern Company Data: Grumman Road Landfill

	GWC-11	GWC-1	GWB-6R	GWC-9	GWC-14	GWC-2	GWC-21	GWC-22	GWC-20
7/9/2018					0.026				0.087
7/10/2018		0.059	0.087			0.054	0.061		
7/11/2018	0.12			0.29				0.12	
1/16/2019		0.054	0.013 (J)		0.028				
1/17/2019	0.039						0.061		
1/18/2019				0.21				0.052	
1/21/2019						0.05			0.069
3/25/2019									0.085
3/26/2019		0.055	0.012 (J)		0.034		0.084		
3/27/2019	0.053			0.19				0.057	
7/30/2019						0.052			
8/26/2019									
8/27/2019	0.12	0.054	0.013		0.067	0.053		0.097	
8/28/2019				0.17			0.063		0.078
10/7/2019									
10/8/2019	0.13				0.085		0.079		
10/9/2019		0.058	0.014 (J)	0.18		0.05		0.065	0.078
4/6/2020									
4/7/2020	0.14	0.05	0.01 (J)		0.073		0.054	0.1	
4/8/2020				0.15		0.061			0.19
8/17/2020									
8/18/2020	0.12				0.028	0.05	0.18	0.085	0.38
8/19/2020		0.057	0.064	0.17					
9/28/2020		0.051							
9/29/2020	0.14				0.026	0.049			
9/30/2020			0.092				0.19	0.045	0.35
10/1/2020				0.15					
3/10/2021	0.13	0.052	0.027	0.15				0.049	
3/11/2021									
3/12/2021									0.34
3/15/2021						0.053			
3/16/2021					0.037		0.18		
9/21/2021	0.12		0.077					0.036	
9/22/2021				0.15	0.11	0.047	0.046		0.42
9/23/2021		0.062							
1/31/2022									
2/1/2022							0.24		0.36
2/2/2022			0.026	0.15	0.1	0.052			
2/3/2022	0.17	0.051						0.038	
8/30/2022			0.0266		0.0773		0.191		0.21
8/31/2022	0.115							0.0741	
9/1/2022		0.0583		0.151		0.0508			
1/31/2023									
2/1/2023	0.146		0.0233	0.128					0.194
2/2/2023		0.0466			0.0617	0.0461	0.196	0.0456	
8/28/2023									
8/29/2023		0.0637	0.0196	0.138		0.0452		0.127	
9/6/2023	0.192				0.0833		0.232		0.178
9/7/2023									
1/23/2024		0.0531	0.0239					0.0372	
1/24/2024	0.146			0.134					0.109
1/25/2024					0.0418	0.0505	0.203		

Prediction Limit

Constituent: Barium (mg/L) Analysis Run 12/13/2024 1:28 PM View: Appendix I

Grumman Road Landfill Client: Southern Company Data: Grumman Road Landfill

	GWC-11	GWC-1	GWB-6R	GWC-9	GWC-14	GWC-2	GWC-21	GWC-22	GWC-20
2/7/2024									
2/8/2024									
8/19/2024									
8/20/2024		0.0452	0.028						
8/21/2024	0.126			0.149	0.0355	0.0506		0.0362	0.226
8/22/2024							0.291		

Prediction Limit

Constituent: Chromium (mg/L) Analysis Run 12/13/2024 1:28 PM View: Appendix I

Grumman Road Landfill Client: Southern Company Data: Grumman Road Landfill

	GWA-7 (bg)	GWB-6R	GWC-1	GWC-11	GWB-5R	GWC-12	GWC-17	GWC-13	GWC-9
9/29/2000	<0.01	0.016	<0.01	<0.01	0.03	<0.01	<0.01	<0.01	<0.01
11/21/2000	<0.01	0.023	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
1/20/2001	<0.01	0.025	<0.01	<0.01	0.028	<0.01	<0.01	<0.01	<0.01
3/14/2001	<0.01	0.021	<0.01	<0.01	0.052	<0.01	<0.01	<0.01	<0.01
7/16/2001	<0.01	0.019	<0.01	<0.01	0.08	<0.01	<0.01	<0.01	<0.01
11/1/2001	<0.01	0.022	<0.01	<0.01	0.13 (O)	<0.01	<0.01	<0.01	<0.01
4/25/2002	<0.01	0.019	<0.01	<0.01	0.021	<0.01	<0.01	<0.01	<0.01
11/20/2002		0.024	<0.01	0.006	0.053	0.002	<0.01	<0.01	0.014
6/6/2003	0.037	0.021	0.005	0.0082	0.064	<0.01	<0.01	0.003	<0.01
12/12/2003	0.0044	0.0066	<0.01	0.0023	<0.01	<0.01	0.036 (O)	<0.01	<0.01
5/26/2004	<0.01	0.013	<0.01	<0.01	0.012	<0.01	<0.01	<0.01	<0.01
12/7/2004	<0.01	0.013	<0.01	<0.01	0.019	<0.01	0.0021	<0.01	0.0039
6/21/2005	<0.01	0.0067	<0.01	<0.01	0.02	<0.01	<0.01	<0.01	0.002
12/12/2005	<0.01	0.0033	0.002	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
4/4/2006									
6/27/2006	<0.01	0.0047	<0.01	<0.01	0.0015	<0.01	<0.01	<0.01	<0.01
8/30/2006									
12/4/2006	0.0015	0.0084	<0.01	0.0021	0.0034	0.0032	<0.01	0.0017	0.0019
2/15/2007									
6/23/2007	<0.01	0.01	<0.01	0.0017	<0.01	<0.01	<0.01	<0.01	0.0015
9/11/2007									
12/11/2007	0.0016	0.0049	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
3/11/2008									
6/23/2008	0.0019			<0.01		0.0016		<0.01	0.0015
6/24/2008		0.032 (O)	<0.01		<0.01		<0.01		
11/3/2008									
12/4/2008	<0.01			<0.01		<0.01		<0.01	<0.01
12/5/2008		0.009	<0.01		0.0016		<0.01		
3/25/2009									
7/7/2009	0.0037	0.0044	0.0013		<0.01				
7/8/2009				<0.01		<0.01	<0.01	<0.01	<0.01
9/14/2009									
12/20/2009	0.0016		<0.01						
12/21/2009		0.0055		<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
3/4/2010									
6/20/2010	<0.01	0.002	<0.01	<0.01	<0.01	<0.01		<0.01	0.0015
6/21/2010							<0.01		
9/14/2010									
1/6/2011			<0.01	<0.01	0.0017			<0.01	
1/7/2011	0.0033	0.0039				<0.01	<0.01		<0.01
4/15/2011									
7/7/2011	0.0044	0.0031	<0.01	0.0023	0.008	<0.01		0.0019	
7/8/2011							0.0013		<0.01
9/25/2011									
1/17/2012	0.0038		<0.01	<0.01	0.0082	<0.01		<0.01	
1/18/2012		0.0023					<0.01		<0.01
4/4/2012									
7/9/2012	0.022		<0.01	0.0017	0.01	<0.01		<0.01	
7/10/2012		0.0022					<0.01		<0.01
10/9/2012									
1/17/2013			<0.01	<0.01	0.01	<0.01		<0.01	
1/18/2013	0.034	<0.01					<0.01		<0.01

ND substitution: RL or RL/2 if <15% NDs.

Prediction Limit

Constituent: Chromium (mg/L) Analysis Run 12/13/2024 1:28 PM View: Appendix I

Grumman Road Landfill Client: Southern Company Data: Grumman Road Landfill

	GWA-7 (bg)	GWB-6R	GWC-1	GWC-11	GWB-5R	GWC-12	GWC-17	GWC-13	GWC-9
4/5/2013									
7/16/2013			<0.01	<0.01	0.0061	<0.01		<0.01	
7/17/2013	0.032	<0.01					<0.01		<0.01
10/11/2013									
1/13/2014	0.04		<0.01	<0.01	0.002	<0.01		<0.01	
1/14/2014		0.0013					<0.01		<0.01
4/3/2014									
7/8/2014				<0.01		<0.01		<0.01	
7/9/2014	0.036	<0.01	0.0011 (J)		<0.01		<0.01		0.0011 (J)
7/10/2014									
10/24/2014									
1/12/2015									
1/13/2015	0.03		<0.01	<0.01	<0.01	<0.01		<0.01	
1/14/2015		0.0015					<0.01		<0.01
5/10/2015									
5/11/2015									
7/16/2015	0.039		0.0011 (J)	<0.01	<0.01	0.001 (J)		<0.01	
7/17/2015		0.0011 (J)							0.0013
7/18/2015							<0.01		
10/6/2015									
1/17/2016			<0.01						
1/18/2016	0.068	0.0011 (J)			<0.01	<0.01	<0.01	<0.01	<0.01
1/19/2016				<0.01					
4/26/2016									
7/26/2016				0.0005 (J)				<0.01	
7/27/2016	0.05		0.0016 (J)		0.0006 (J)	0.0014 (J)			
7/28/2016		0.001 (J)							0.0011 (J)
7/29/2016							0.0009 (J)		
8/30/2016		0.0013 (J)	0.0015 (J)		<0.01				
8/31/2016				0.001 (J)		0.0012 (J)		0.0011 (J)	0.0024 (J)
9/1/2016	0.119 (O)						0.0011 (J)		
10/24/2016									
10/25/2016	0.0519		0.0018 (J)						
10/26/2016		0.0014 (J)		<0.01	<0.01	0.0012 (J)	<0.01	<0.01	
10/27/2016									<0.01
1/3/2017					0.001 (J)				
1/4/2017			0.0021 (J)	<0.01		0.0012 (J)			
1/5/2017		0.002 (J)					0.0012 (J)	<0.01	
1/6/2017	0.0536								<0.01
4/3/2017									
4/4/2017			0.002 (J)						
4/5/2017						0.0013 (J)	0.0015 (J)		
4/6/2017	0.0447 (J)	0.0034 (J)		0.0007 (J)	0.0013 (J)			0.0011 (J)	0.0019 (J)
7/10/2017						0.0014 (J)			
7/11/2017				0.0006 (J)					
7/12/2017		0.0024 (J)	0.0021 (J)		0.0011 (J)			0.0007 (J)	0.0011 (J)
7/13/2017	0.0269						0.0012 (J)		
10/2/2017									
10/3/2017		0.0022 (J)	0.0014 (J)	0.0007 (J)	0.0012 (J)				
10/4/2017	0.0378					0.0011 (J)	0.0055 (J)	0.0008 (J)	0.0011 (J)
1/9/2018	0.0283 (J)	0.0019 (J)							
1/10/2018			0.0017 (J)		0.0016 (J)			0.0007 (J)	

ND substitution: RL or RL/2 if <15% NDs.

Prediction Limit

Constituent: Chromium (mg/L) Analysis Run 12/13/2024 1:28 PM View: Appendix I

Grumman Road Landfill Client: Southern Company Data: Grumman Road Landfill

	GWA-7 (bg)	GWB-6R	GWC-1	GWC-11	GWB-5R	GWC-12	GWC-17	GWC-13	GWC-9
1/11/2018				0.0098 (J)		0.001 (J)	0.0009 (J)		0.001 (J)
7/9/2018									
7/10/2018		0.0023 (J)	0.0021 (J)		0.0055 (J)				
7/11/2018	0.018 (J)			<0.01		<0.01	<0.01	0.0019 (J)	<0.01
1/16/2019	0.018 (J)	0.018 (J)	0.0021 (J)		<0.01		<0.01	<0.01	
1/17/2019				<0.01		0.0028 (J)			
1/18/2019									<0.01
1/21/2019									
3/25/2019	0.017 (J)								
3/26/2019		0.017 (J)	0.0018 (J)		0.072		<0.01	<0.01	
3/27/2019				<0.01		<0.01			<0.01
7/30/2019									
8/26/2019	0.024 (J)								
8/27/2019		0.0097 (J)	0.0062 (J)	0.00092 (J)		0.00085 (J)		<0.01	
8/28/2019					0.0071 (J)		0.0013 (J)		0.00089 (J)
10/7/2019									
10/8/2019	0.021 (J)			0.00091 (J)				<0.01	
10/9/2019		0.011 (J)	0.0019 (J)		0.012 (J)	0.00081 (J)	0.00081 (J)		0.0009 (J)
4/6/2020	0.015 (J)								
4/7/2020		0.0094 (J)	0.0015 (J)	0.00094 (J)	0.0022 (J)	0.00082 (J)			
4/8/2020							0.00073 (J)	0.00058 (J)	0.0015 (J)
8/17/2020						0.001 (J)		0.00077 (J)	
8/18/2020				0.0015 (J)			0.0011 (J)		
8/19/2020	0.015 (J)	0.0037 (J)	0.0028 (J)		0.0012 (J)				0.0013 (J)
9/28/2020	0.014 (J)		0.0024 (J)					0.00062 (J)	
9/29/2020				0.0011 (J)		0.00085 (J)			
9/30/2020		0.0045 (J)			0.0018 (J)		0.00096 (J)		
10/1/2020									0.0012 (J)
3/10/2021		0.006	0.0023 (J)	0.0013 (J)	0.001 (J)	0.00091 (J)			0.0011 (J)
3/11/2021	0.02 (J)						0.0009 (J)		
3/12/2021									
3/15/2021								<0.01	
3/16/2021									
9/21/2021	0.013 (J)	0.0035 (J)		<0.01	<0.01	<0.01		<0.01	
9/22/2021							<0.01		<0.01
9/23/2021			0.0023 (J)						
1/31/2022	0.015 (J)								
2/1/2022							0.0014 (J)		
2/2/2022		0.0033 (J)							0.0012 (J)
2/3/2022			0.0019 (J)	0.0011 (J)	0.0014 (J)	0.0018 (J)		<0.01	
8/30/2022	0.0129	0.00356 (J)			<0.01	<0.01			
8/31/2022				<0.01			<0.01	<0.01	
9/1/2022			<0.01						<0.01
1/31/2023	0.0112								
2/1/2023		0.00365 (J)		<0.01	0.00655 (J)	<0.01	<0.01	<0.01	<0.01
2/2/2023			<0.01						
8/28/2023	0.0139								
8/29/2023		0.00349 (J)	0.00337 (J)		<0.01		<0.01	<0.01	<0.01
9/6/2023				<0.01		<0.01			
9/7/2023									
1/23/2024	<0.01	0.00402 (J)	<0.01						
1/24/2024				<0.01			<0.01		<0.01

ND substitution: RL or RL/2 if <15% NDs.

Prediction Limit

Constituent: Chromium (mg/L) Analysis Run 12/13/2024 1:28 PM View: Appendix I
Grumman Road Landfill Client: Southern Company Data: Grumman Road Landfill

	GWA-7 (bg)	GWB-6R	GWC-1	GWC-11	GWB-5R	GWC-12	GWC-17	GWC-13	GWC-9
1/25/2024						<0.01		<0.01	
2/7/2024									
2/8/2024					0.0147				
8/19/2024	0.0123								
8/20/2024		0.00339 (J)	<0.01						
8/21/2024				<0.01	0.00542 (J)	<0.01	<0.01	<0.01	<0.01
8/22/2024									

Prediction Limit

Constituent: Chromium (mg/L) Analysis Run 12/13/2024 1:28 PM View: Appendix I

Grumman Road Landfill Client: Southern Company Data: Grumman Road Landfill

	GWC-14	GWA-8 (bg)	GWC-16	GWC-15	GWB-4R	GWC-2	GWC-21	GWC-20	GWC-22
9/29/2000	<0.01	<0.01	<0.01	<0.01	0.021				
11/21/2000	<0.01		<0.01	<0.01	0.017	<0.01			
1/20/2001	<0.01	<0.01	<0.01	<0.01	0.03	<0.01			
3/14/2001	<0.01	<0.01	<0.01	<0.01	0.019	<0.01			
7/16/2001	<0.01	<0.01	<0.01	<0.01	0.029	<0.01			
11/1/2001	<0.01	<0.01	<0.01	<0.01	0.021	<0.01			
4/25/2002	<0.01	<0.01	<0.01	<0.01	0.03	<0.01			
11/20/2002	0.014	0.0051	0.0041	0.0058	0.038	<0.01			
6/6/2003	<0.01	0.014	0.063 (O)	0.0068	0.028	<0.01			
12/12/2003	<0.01	0.011	0.0059	0.0041	0.027	<0.01			
5/26/2004	<0.01	<0.01	<0.01	<0.01	0.021	<0.01			
12/7/2004	<0.01	<0.01	<0.01	0.0026	0.016	<0.01			
6/21/2005	<0.01	<0.01	<0.01	<0.01	0.015	<0.01			
12/12/2005	<0.01	<0.01	<0.01	<0.01	0.022	<0.01			
4/4/2006	<0.01	<0.01	<0.01						
6/27/2006	<0.01	<0.01	<0.01	0.0013	0.027	<0.01			
8/30/2006	<0.01	<0.01	<0.01						
12/4/2006	0.0042	<0.01	0.0036	<0.01	0.025	<0.01			
2/15/2007	<0.01	<0.01	<0.01						
6/23/2007	<0.01	<0.01	0.0016	<0.01	0.023	<0.01			
9/11/2007	<0.01	<0.01	<0.01						
12/11/2007	<0.01	<0.01	<0.01	<0.01	0.018	<0.01			
3/11/2008	<0.01	<0.01	<0.01						
6/23/2008		<0.01							
6/24/2008	<0.01		<0.01	0.0014	0.022	<0.01			
11/3/2008	<0.01	<0.01	0.0025						
12/4/2008	<0.01	<0.01				<0.01			
12/5/2008			<0.01	<0.01	0.023				
3/25/2009	<0.01	<0.01	<0.01						
7/7/2009		<0.01			0.012				
7/8/2009	<0.01		<0.01	<0.01		<0.01			
9/14/2009	<0.01	<0.01	<0.01						
12/20/2009	<0.01	<0.01	<0.01	<0.01		<0.01			
12/21/2009					0.019				
3/4/2010	<0.01	<0.01	<0.01						
6/20/2010	<0.01	<0.01		<0.01		<0.01			
6/21/2010			<0.01		0.01		0.0019	<0.01	<0.01
9/14/2010	<0.01	<0.01	<0.01						
1/6/2011						<0.01			
1/7/2011	0.0016	<0.01	0.0018	<0.01	0.023		0.0017	0.0018	<0.01
4/15/2011	0.0034	<0.01	<0.01						
7/7/2011	<0.01	<0.01	<0.01	<0.01				<0.01	
7/8/2011					0.017		0.0023	0.0019	<0.01
9/25/2011	0.0013	0.0021	<0.01						
1/17/2012	<0.01	<0.01		<0.01		<0.01			
1/18/2012			<0.01		0.0114		<0.01	<0.01	<0.01
4/4/2012	<0.01	<0.01	<0.01						
7/9/2012	<0.01			<0.01		<0.01			
7/10/2012		<0.01	<0.01		0.014		<0.01	0.0013	<0.01
10/9/2012	0.0019	<0.01	0.0018						
1/17/2013						<0.01			
1/18/2013	0.0017	<0.01	<0.01	<0.01	0.015		<0.01	0.0015	<0.01

ND substitution: RL or RL/2 if <15% NDs.

Prediction Limit

Constituent: Chromium (mg/L) Analysis Run 12/13/2024 1:28 PM View: Appendix I

Grumman Road Landfill Client: Southern Company Data: Grumman Road Landfill

	GWC-14	GWA-8 (bg)	GWC-16	GWC-15	GWB-4R	GWC-2	GWC-21	GWC-20	GWC-22
4/5/2013	0.0019	<0.01	<0.01						
7/16/2013									
7/17/2013	0.0017	<0.01	<0.01	<0.01	0.011	<0.01	0.0019	<0.01	<0.01
10/11/2013	0.0013	<0.01	<0.01						
1/13/2014				<0.01		<0.01			
1/14/2014	0.001	<0.01	<0.01		0.019		<0.01	0	<0.01
4/3/2014	0.0031	<0.01	<0.01						
7/8/2014									
7/9/2014	0.0012 (J)	<0.01	<0.01	<0.01	0.012	<0.01	<0.01		
7/10/2014								<0.01	<0.01
10/24/2014	<0.01	<0.01	<0.01						
1/12/2015					0.016			<0.01	
1/13/2015				<0.01		<0.01			
1/14/2015	0.0013	<0.01	<0.01				<0.01		<0.01
5/10/2015	<0.01	<0.01							
5/11/2015			<0.01						
7/16/2015			<0.01	<0.01	0.0084	<0.01			
7/17/2015	0.001 (J)	<0.01					<0.01		
7/18/2015								<0.01	<0.01
10/6/2015	<0.01	<0.01	<0.01						
1/17/2016	0.0012 (J)		<0.01	<0.01		<0.01	<0.01	<0.01	
1/18/2016		<0.01			0.014				<0.01
1/19/2016									
4/26/2016	<0.01	<0.01	<0.01						
7/26/2016									
7/27/2016	0.0008 (J)			0.0007 (J)		0.0008 (J)			
7/28/2016		<0.01	0.0006 (J)				0.0005 (J)	0.0007 (J)	
7/29/2016					0.0077 (J)				0.0007 (J)
8/30/2016		<0.01							
8/31/2016						<0.01			<0.01
9/1/2016	0.0015 (J)		0.0011 (J)	0.0011 (J)	0.015		<0.01	<0.01	
10/24/2016		<0.01							
10/25/2016	<0.01		<0.01	<0.01			<0.01	<0.01	
10/26/2016					0.0106	0.001 (J)			<0.01
10/27/2016									
1/3/2017		<0.01							
1/4/2017			<0.01				<0.01	<0.01	<0.01
1/5/2017	0.001 (J)			<0.01		<0.01			
1/6/2017					0.0098 (J)				
4/3/2017		0.0004 (J)		0.0015 (J)					
4/4/2017	0.001 (J)				0.0101	0.0008 (J)	0.0008 (J)	0.0011 (J)	
4/5/2017			0.001 (J)						
4/6/2017									0.0006 (J)
7/10/2017									
7/11/2017	0.0008 (J)	0.0006 (J)		0.0013 (J)				0.0009 (J)	0.0005 (J)
7/12/2017			0.0011 (J)		0.0096 (J)				
7/13/2017						0.0006 (J)	0.0006 (J)		
10/2/2017	0.0009 (J)	<0.01		0.0013 (J)				0.0009 (J)	
10/3/2017			0.0009 (J)			<0.01	0.0005 (J)		
10/4/2017					0.0097 (J)				0.0006 (J)
1/9/2018	0.0006 (J)	<0.01		0.0012 (J)			0.0007 (J)		
1/10/2018			0.0007 (J)			<0.01		0.0008 (J)	

ND substitution: RL or RL/2 if <15% NDs.

Prediction Limit

Constituent: Chromium (mg/L) Analysis Run 12/13/2024 1:28 PM View: Appendix I

Grumman Road Landfill Client: Southern Company Data: Grumman Road Landfill

	GWC-14	GWA-8 (bg)	GWC-16	GWC-15	GWB-4R	GWC-2	GWC-21	GWC-20	GWC-22
1/11/2018					0.0109				<0.01
7/9/2018	<0.01	<0.01						<0.01	
7/10/2018			<0.01	<0.01		<0.01	<0.01		
7/11/2018					0.0055 (J)				<0.01
1/16/2019	<0.01	<0.01			0.0024 (J)				
1/17/2019			0.01 (J)	<0.01			0.01		
1/18/2019									<0.01
1/21/2019						<0.01		<0.01	
3/25/2019		<0.01			0.002 (J)			<0.01	
3/26/2019	<0.01		<0.01	<0.01			<0.01		
3/27/2019									<0.01
7/30/2019						0.00065 (J)			
8/26/2019		0.001 (J)							
8/27/2019	0.001 (J)			0.0016 (J)	0.0027 (J)	<0.01			0.00057 (J)
8/28/2019			0.0011 (J)				0.00087 (J)	0.00089 (J)	
10/7/2019		0.00052 (J)							
10/8/2019	0.00053 (J)		0.00099 (J)	0.0017 (J)			0.00065 (J)		
10/9/2019					0.002 (J)	0.00049 (J)		0.0011 (J)	0.00072 (J)
4/6/2020		<0.01							
4/7/2020	0.00074 (J)		<0.01	0.0014 (J)	0.0028 (J)		<0.01		0.00049 (J)
4/8/2020						0.00069 (J)		0.001 (J)	
8/17/2020		0.00082 (J)							
8/18/2020	0.00059 (J)		0.0012 (J)	0.0018 (J)		<0.01	0.0012 (J)	0.0011 (J)	0.00056 (J)
8/19/2020					0.0022 (J)				
9/28/2020		0.00071 (J)							
9/29/2020	<0.01					<0.01			
9/30/2020			0.00098 (J)	0.0016 (J)			0.00067 (J)	0.0013 (J)	0.00064 (J)
10/1/2020					0.002 (J)				
3/10/2021					0.003 (J)				<0.01
3/11/2021									
3/12/2021		0.00074 (J)		0.0031 (J)				0.0014 (J)	
3/15/2021						0.0011 (J)			
3/16/2021	<0.01		0.0012 (J)				0.00075 (J)		
9/21/2021		<0.01			0.0018 (J)				<0.01
9/22/2021	<0.01		0.0018 (J)			<0.01	<0.01	0.0013 (J)	
9/23/2021				0.0013 (J)					
1/31/2022		<0.01							
2/1/2022			<0.01				<0.01	0.0036 (J)	
2/2/2022	<0.01				0.003 (J)	<0.01			
2/3/2022				0.0016 (J)					<0.01
8/30/2022	<0.01	<0.01			<0.01		<0.01	<0.01	
8/31/2022				<0.01					<0.01
9/1/2022			<0.01			<0.01			
1/31/2023		<0.01							
2/1/2023			<0.01					0.00503 (J)	
2/2/2023	<0.01			<0.01	0.00502 (J)	<0.01	<0.01		<0.01
8/28/2023		<0.01							
8/29/2023					0.00389 (J)	<0.01			<0.01
9/6/2023	<0.01		<0.01				<0.01	<0.01	
9/7/2023				<0.01					
1/23/2024		<0.01							<0.01
1/24/2024				<0.01				<0.01	

ND substitution: RL or RL/2 if <15% NDs.

Prediction Limit

Constituent: Chromium (mg/L) Analysis Run 12/13/2024 1:28 PM View: Appendix I
Grumman Road Landfill Client: Southern Company Data: Grumman Road Landfill

	GWC-14	GWA-8 (bg)	GWC-16	GWC-15	GWB-4R	GWC-2	GWC-21	GWC-20	GWC-22
1/25/2024	<0.01		<0.01			<0.01	<0.01		
2/7/2024					0.00352 (J)				
2/8/2024									
8/19/2024									
8/20/2024					0.00544 (J)				
8/21/2024	<0.01	<0.01	<0.01	<0.01		<0.01		<0.01	<0.01
8/22/2024							<0.01		

ND substitution: RL or RL/2 if <15% NDs.

Prediction Limit

Constituent: Lead (mg/L) Analysis Run 12/13/2024 1:28 PM View: Appendix I

Grumman Road Landfill Client: Southern Company Data: Grumman Road Landfill

	GWA-7 (bg)	GWC-9	GWB-6R	GWC-1	GWC-11	GWC-12	GWC-13	GWA-8 (bg)	GWC-14
9/29/2000	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002
11/21/2000	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002		<0.002
1/20/2001	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002
3/14/2001	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002
7/16/2001	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002
11/1/2001	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002
4/25/2002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002
11/20/2002		0.0086 (O)	0.0057 (J)	<0.002	<0.002	<0.002	<0.002	<0.002	0.011 (O)
6/6/2003	0.037 (O)	<0.002	0.013	<0.002	0.0068	<0.002	0.0078	0.016 (O)	<0.002
12/12/2003	0.008	<0.002	<0.002	<0.002	<0.002	<0.002	0.0055	0.0095	<0.002
5/26/2004	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002
12/7/2004	<0.002	0.0051	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002
6/21/2005	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002
12/12/2005	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002
4/4/2006								<0.002	<0.002
6/27/2006	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002
8/30/2006								<0.002	<0.002
12/4/2006	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002
2/15/2007								<0.002	<0.002
6/23/2007	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002
9/11/2007								<0.002	<0.002
12/11/2007	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002
3/11/2008								<0.002	<0.002
6/23/2008	<0.002	<0.002			<0.002	<0.002	<0.002	<0.002	
6/24/2008			0.02	<0.002					<0.002
11/3/2008								<0.002	<0.002
12/4/2008	<0.002	<0.002			<0.002	<0.002	<0.002	<0.002	<0.002
12/5/2008			<0.002	<0.002					
3/25/2009								<0.002	<0.002
7/7/2009	<0.002		<0.002	<0.002				<0.002	
7/8/2009		<0.002			<0.002	<0.002	<0.002		<0.002
9/14/2009								<0.002	<0.002
12/20/2009	<0.002			<0.002				<0.002	<0.002
12/21/2009		<0.002	<0.002		<0.002	<0.002	<0.002		
3/4/2010								<0.002	<0.002
6/20/2010	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002
6/21/2010									
9/14/2010								<0.002	<0.002
1/6/2011				<0.002	<0.002		<0.002		
1/7/2011	<0.002	<0.002	<0.002			<0.002		<0.002	<0.002
4/15/2011								<0.002	<0.002
7/7/2011	<0.002		<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002
7/8/2011		<0.002							
9/25/2011								<0.002	<0.002
1/17/2012	<0.002			<0.002	<0.002	<0.002	<0.002	<0.002	<0.002
1/18/2012		<0.002	<0.002						
4/4/2012								<0.002	<0.002
7/9/2012	<0.002			<0.002	<0.002	<0.002	<0.002		<0.002
7/10/2012		<0.002	<0.002					<0.002	
10/9/2012								<0.002	<0.002
1/17/2013				<0.002	<0.002	<0.002	<0.002		
1/18/2013	<0.002	<0.002	<0.002					<0.002	<0.002

ND substitution: RL or RL/2 if <15% NDs.

Prediction Limit

Constituent: Lead (mg/L) Analysis Run 12/13/2024 1:28 PM View: Appendix I

Grumman Road Landfill Client: Southern Company Data: Grumman Road Landfill

	GWA-7 (bg)	GWC-9	GWB-6R	GWC-1	GWC-11	GWC-12	GWC-13	GWA-8 (bg)	GWC-14
4/5/2013								<0.002	<0.002
7/16/2013				<0.002	<0.002	<0.002	<0.002		
7/17/2013	<0.002	<0.002	<0.002					<0.002	<0.002
10/11/2013								<0.002	<0.002
1/13/2014	0.013			<0.002	<0.002	0.004	<0.002		
1/14/2014		<0.002	<0.002					<0.002	<0.002
4/3/2014								<0.002	<0.002
7/8/2014					<0.002	<0.002	<0.002		
7/9/2014	0.0076 (J)	<0.002	<0.002	<0.002				<0.002	<0.002
7/10/2014									
10/24/2014								<0.002	<0.002
1/12/2015									
1/13/2015	0.0057 (J)			<0.002	<0.002	<0.002	<0.002		
1/14/2015		<0.002	<0.002					<0.002	<0.002
5/10/2015								<0.002	<0.002
5/11/2015									
7/16/2015	0.009 (J)			<0.002	<0.002	0.0044 (J)	<0.002		
7/17/2015		<0.002	<0.002					<0.002	<0.002
7/18/2015									
10/6/2015								<0.002	
1/17/2016				<0.002					<0.002
1/18/2016	0.0094 (J)	<0.002	<0.002			0.0034 (J)	<0.002	<0.002	
1/19/2016					<0.002				
4/26/2016								<0.002	<0.002
7/26/2016					0.0001 (J)		<0.002		
7/27/2016	0.0058			<0.002		0.0001 (J)			<0.002
7/28/2016		<0.002	<0.002					<0.002	
7/29/2016									
8/30/2016			<0.002	<0.002				<0.002	
8/31/2016		0.0007 (J)			0.0002 (J)	0.0001 (J)	<0.002		
9/1/2016	0.0663 (O)								<0.002
10/24/2016								<0.002	
10/25/2016	0.0003 (J)			<0.002					<0.002
10/26/2016			<0.002		0.0001 (J)	0.0001 (J)	<0.002		
10/27/2016		<0.002							
1/3/2017								0.0001 (J)	
1/4/2017				<0.002	0.0002 (J)	<0.002			
1/5/2017			0.0003 (J)				0.0002 (J)		<0.002
1/6/2017	0.006	<0.002							
4/3/2017								0.0002 (J)	
4/4/2017				<0.002					0.0001 (J)
4/5/2017						0.0003 (J)			
4/6/2017	0.0109	0.0001 (J)	0.0002 (J)		0.0003 (J)		0.0005 (J)		
7/10/2017						0.0003 (J)			
7/11/2017					0.0002 (J)			0.0001 (J)	8E-05 (J)
7/12/2017		<0.002	0.0002 (J)	<0.002			0.0005 (J)		
7/13/2017	0.007								
10/2/2017								0.0001 (J)	0.0001 (J)
10/3/2017			0.0001 (J)	<0.002	0.0003 (J)				
10/4/2017	0.0042 (J)	9E-05 (J)				0.0001 (J)	0.0007 (J)		
1/9/2018	0.0098		0.0003 (J)					0.0001 (J)	<0.002
1/10/2018				0.0001 (J)			0.0009 (J)		

Prediction Limit

Constituent: Lead (mg/L) Analysis Run 12/13/2024 1:28 PM View: Appendix I

Grumman Road Landfill Client: Southern Company Data: Grumman Road Landfill

	GWA-7 (bg)	GWC-9	GWB-6R	GWC-1	GWC-11	GWC-12	GWC-13	GWA-8 (bg)	GWC-14
1/11/2018		0.0002 (J)			0.0003 (J)	0.0002 (J)			
7/9/2018								<0.002	<0.002
7/10/2018			<0.002	<0.002					
7/11/2018	0.0028 (J)	<0.002			<0.002	<0.002	0.0015 (J)		
1/16/2019	<0.025 (O)		<0.002	<0.002			0.00061 (J)	<0.002	<0.002
1/17/2019					0.00028 (J)	<0.002			
1/18/2019		<0.002							
1/21/2019									
3/25/2019	0.0019 (J)							<0.002	
3/26/2019			<0.002	<0.002			<0.002		<0.002
3/27/2019		<0.002			0.00029 (J)	<0.002			
7/30/2019									
8/26/2019	0.013 (J)							<0.002	
8/27/2019			0.0011 (J)	<0.002	0.00021 (J)	<0.002	0.0001 (J)		0.00051 (J)
8/28/2019		6.1E-05 (J)							
10/7/2019								<0.002	
10/8/2019	0.0098 (J)				0.00028 (J)		0.00013 (J)		<0.002
10/9/2019		<0.002	0.00033 (J)	<0.002		6.6E-05 (J)			
4/6/2020	0.0024 (J)							0.0001 (J)	
4/7/2020			0.00063 (J)	0.00012 (J)	0.00036 (J)	8.1E-05 (J)			<0.002
4/8/2020		0.00021 (J)					0.00017 (J)		
8/17/2020						4.9E-05 (J)	7.6E-05 (J)	<0.002	
8/18/2020					0.00035 (J)				<0.002
8/19/2020	0.0044 (J)	9.6E-05 (J)	0.00014 (J)	<0.002					
9/28/2020	0.0043 (J)			4.3E-05 (J)			6.4E-05 (J)	<0.002	
9/29/2020					0.00032 (J)	3.7E-05 (J)			<0.002
9/30/2020			8E-05 (J)						
10/1/2020		3.8E-05 (J)							
3/10/2021		0.00012 (J)	9.6E-05 (J)	0.0001 (J)	0.00042 (J)	6.8E-05 (J)			
3/11/2021	0.0079								
3/12/2021								9.3E-05 (J)	
3/15/2021							0.00013 (J)		
3/16/2021									<0.002
9/21/2021	<0.002		<0.002		<0.002	<0.002	<0.002	<0.002	
9/22/2021		<0.002							<0.002
9/23/2021				<0.002					
1/31/2022	<0.002							<0.002	
2/1/2022									
2/2/2022		<0.002	<0.002						<0.002
2/3/2022				<0.002	<0.002	<0.002	<0.002		
8/30/2022	0.0022		<0.002			<0.002		<0.002	<0.002
8/31/2022					<0.002		<0.002		
9/1/2022		<0.002		<0.002					
1/31/2023	0.00126 (J)							0.0104	
2/1/2023		<0.002	<0.002		<0.002	<0.002	<0.002		
2/2/2023				<0.002					<0.002
8/28/2023	0.0017 (J)							0.000566 (J)	
8/29/2023		<0.002	<0.002	<0.002			<0.002		
9/6/2023					<0.002	<0.002			<0.002
9/7/2023									
1/23/2024	0.00133 (J)		<0.002	<0.002				<0.002	
1/24/2024		<0.002			<0.002				

ND substitution: RL or RL/2 if <15% NDs.

Prediction Limit

Constituent: Lead (mg/L) Analysis Run 12/13/2024 1:28 PM View: Appendix I

Grumman Road Landfill Client: Southern Company Data: Grumman Road Landfill

	GWA-7 (bg)	GWC-9	GWB-6R	GWC-1	GWC-11	GWC-12	GWC-13	GWA-8 (bg)	GWC-14
1/25/2024						<0.002	<0.002		<0.002
2/7/2024									
2/8/2024									
8/19/2024	0.000838 (J)								
8/20/2024			<0.002	<0.002					
8/21/2024		<0.002			<0.002	<0.002	<0.002	<0.002	<0.002
8/22/2024									

ND substitution: RL or RL/2 if <15% NDs.

Prediction Limit

Constituent: Lead (mg/L) Analysis Run 12/13/2024 1:28 PM View: Appendix I

Grumman Road Landfill Client: Southern Company Data: Grumman Road Landfill

	GWC-15	GWC-17	GWC-16	GWB-4R	GWC-2	GWB-5R	GWC-20	GWC-21	GWC-22
9/29/2000	<0.002	<0.002	<0.002	0.0083		0.017 (O)			
11/21/2000	<0.002	<0.002	<0.002	0.0052	0.0069	<0.002			
1/20/2001	<0.002	<0.002	<0.002	<0.002	<0.002	0.011			
3/14/2001	<0.002	<0.002	<0.002	<0.002	<0.002	0.026 (O)			
7/16/2001	<0.002	<0.002	<0.002	0.011	<0.002	0.043 (O)			
11/1/2001	<0.002	<0.002	<0.002	<0.002	<0.002	0.075 (O)			
4/25/2002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002			
11/20/2002	<0.002	<0.002	<0.002	0.018 (O)	<0.002	0.057 (O)			
6/6/2003	<0.002	<0.002	0.099 (O)	0.015 (O)	<0.002	0.16 (O)			
12/12/2003	0.0065	<0.002	0.017 (O)	0.0072	<0.002	<0.002			
5/26/2004	<0.002	<0.002	<0.002	0.0055	<0.002	0.011			
12/7/2004	<0.002	<0.002	<0.002	<0.002	<0.002	0.038 (O)			
6/21/2005	<0.002	<0.002	<0.002	<0.002	<0.002	0.036 (O)			
12/12/2005	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002			
4/4/2006			<0.002						
6/27/2006	<0.002	<0.002	<0.002	0.024 (O)	<0.002	<0.002			
8/30/2006			<0.002						
12/4/2006	<0.002	<0.002	<0.002	0.023 (O)	<0.002	<0.002			
2/15/2007			<0.002						
6/23/2007	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002			
9/11/2007			<0.002						
12/11/2007	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002			
3/11/2008			<0.002						
6/23/2008									
6/24/2008	<0.002	<0.002	<0.002	0.02 (O)	<0.002	<0.002			
11/3/2008			<0.002						
12/4/2008					<0.002				
12/5/2008	<0.002	<0.002	<0.002	<0.002		<0.002			
3/25/2009			<0.002						
7/7/2009				<0.002		<0.002			
7/8/2009	<0.002	<0.002	<0.002		<0.002				
9/14/2009			<0.002						
12/20/2009	<0.002		<0.002		<0.002				
12/21/2009		<0.002		<0.002		<0.002			
3/4/2010			<0.002						
6/20/2010	<0.002				<0.002	<0.002			
6/21/2010		<0.002	<0.002	<0.002			<0.002	<0.002	<0.002
9/14/2010			<0.002						
1/6/2011					<0.002	<0.002			
1/7/2011	<0.002	<0.002	<0.002	<0.002			<0.002	<0.002	<0.002
4/15/2011			<0.002						
7/7/2011	<0.002		<0.002			<0.002	<0.002		
7/8/2011		<0.002		<0.002			<0.002	<0.002	<0.002
9/25/2011			<0.002						
1/17/2012	<0.002				<0.002	<0.002			
1/18/2012		<0.002	<0.002	<0.002			<0.002	<0.002	<0.002
4/4/2012			<0.002						
7/9/2012	<0.002				<0.002	<0.002			
7/10/2012		<0.002	<0.002	<0.002			<0.002	<0.002	<0.002
10/9/2012			<0.002						
1/17/2013					<0.002	<0.002			
1/18/2013	<0.002	<0.002	<0.002	<0.002			<0.002	<0.002	<0.002

ND substitution: RL or RL/2 if <15% NDs.

Prediction Limit

Constituent: Lead (mg/L) Analysis Run 12/13/2024 1:28 PM View: Appendix I

Grumman Road Landfill Client: Southern Company Data: Grumman Road Landfill

	GWC-15	GWC-17	GWC-16	GWB-4R	GWC-2	GWB-5R	GWC-20	GWC-21	GWC-22
4/5/2013			<0.002						
7/16/2013						<0.002			
7/17/2013	<0.002	<0.002	<0.002	<0.002	<0.002		<0.002	<0.002	<0.002
10/11/2013			<0.002						
1/13/2014	<0.002				<0.002	<0.002			
1/14/2014		<0.002	<0.002	0.005			<0.002	<0.002	<0.002
4/3/2014			<0.002						
7/8/2014									
7/9/2014	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002		<0.002	
7/10/2014							<0.002		<0.002
10/24/2014			<0.002						
1/12/2015				<0.002			<0.002		
1/13/2015	<0.002				<0.002	<0.002			
1/14/2015		<0.002	<0.002					<0.002	<0.002
5/10/2015									
5/11/2015			<0.002						
7/16/2015	<0.002		<0.002	<0.002	<0.002	<0.002			
7/17/2015								<0.002	
7/18/2015		<0.002					<0.002		<0.002
10/6/2015									
1/17/2016	<0.002		<0.002		<0.002		<0.002	<0.002	
1/18/2016		<0.002		0.0055 (J)		<0.002			<0.002
1/19/2016									
4/26/2016			<0.002						
7/26/2016									
7/27/2016	<0.002				<0.002	<0.002			
7/28/2016			<0.002				<0.002	<0.002	
7/29/2016		<0.002		0.003 (J)					0.0004 (J)
8/30/2016						<0.002			
8/31/2016					<0.002				0.0003 (J)
9/1/2016	<0.002	<0.002	<0.002	0.0166 (O)			<0.002	<0.002	
10/24/2016									
10/25/2016	<0.002		0.0002 (J)				0.0001 (J)	<0.002	
10/26/2016		<0.002		0.0057	<0.002	0.0002 (J)			0.0003 (J)
10/27/2016									
1/3/2017						0.0001 (J)			
1/4/2017			0.0001 (J)				<0.002	<0.002	0.0003 (J)
1/5/2017	<0.002	<0.002			<0.002				
1/6/2017				0.0053					
4/3/2017	0.0003 (J)								
4/4/2017				0.0092	0.0002 (J)		7E-05 (J)	9E-05 (J)	
4/5/2017		0.0009 (J)	0.0002 (J)						
4/6/2017						0.0003 (J)			0.0003 (J)
7/10/2017									
7/11/2017	0.0001 (J)						<0.002		0.0002 (J)
7/12/2017			0.0001 (J)	0.006		0.0002 (J)			
7/13/2017		<0.002			0.0003 (J)			7E-05 (J)	
10/2/2017	0.0002 (J)						<0.002		
10/3/2017			0.0001 (J)		<0.002	0.0002 (J)		0.0001 (J)	
10/4/2017		0.0001 (J)		0.0057					0.0008 (J)
1/9/2018	0.0002 (J)							9E-05 (J)	
1/10/2018			0.0002 (J)		8E-05 (J)	0.0003 (J)	0.0002 (J)		

Prediction Limit

Constituent: Lead (mg/L) Analysis Run 12/13/2024 1:28 PM View: Appendix I

Grumman Road Landfill Client: Southern Company Data: Grumman Road Landfill

	GWC-15	GWC-17	GWC-16	GWB-4R	GWC-2	GWB-5R	GWC-20	GWC-21	GWC-22
1/11/2018		0.0001 (J)		0.0085					0.0009 (J)
7/9/2018							<0.002		
7/10/2018	<0.002		<0.002		<0.002	<0.002		<0.002	
7/11/2018		<0.002		0.0029 (J)					0.001 (J)
1/16/2019		<0.002		<0.002		<0.002			
1/17/2019	<0.002		<0.002					<0.002	
1/18/2019									0.0012 (J)
1/21/2019					<0.002		<0.002		
3/25/2019				<0.002			<0.002		
3/26/2019	<0.002	<0.002	<0.002			<0.002		<0.002	
3/27/2019									0.00047 (J)
7/30/2019					0.0002 (J)				
8/26/2019									
8/27/2019	0.00033 (J)			0.001 (J)	<0.002				0.003 (J)
8/28/2019		<0.002	0.0001 (J)			0.0011 (J)	6.5E-05 (J)	0.00018 (J)	
10/7/2019									
10/8/2019	0.00012 (J)		0.0001 (J)					0.00016 (J)	
10/9/2019		0.00015 (J)		0.00041 (J)	6.4E-05 (J)	0.0025 (J)	0.00018 (J)		0.00032 (J)
4/6/2020									
4/7/2020	8.6E-05 (J)		0.00023 (J)	0.00073 (J)		0.0014 (J)		<0.002	0.00067 (J)
4/8/2020		8.4E-05 (J)			<0.002		<0.002		
8/17/2020									
8/18/2020	9E-05 (J)	0.00014 (J)	0.00017 (J)		<0.002		<0.002	0.00027 (J)	0.00072 (J)
8/19/2020				0.00048 (J)		7.9E-05 (J)			
9/28/2020									
9/29/2020					<0.002				
9/30/2020	4.7E-05 (J)	6E-05 (J)	9.1E-05 (J)			0.0012 (J)	<0.002	5.4E-05 (J)	0.00023 (J)
10/1/2020				0.00026 (J)					
3/10/2021				0.0003 (J)		5.2E-05 (J)			0.00016 (J)
3/11/2021		0.00019 (J)							
3/12/2021	5.3E-05 (J)						<0.002		
3/15/2021					4.1E-05 (J)				
3/16/2021			7.3E-05 (J)					<0.002	
9/21/2021				<0.002		<0.002			<0.002
9/22/2021		<0.002	<0.002		<0.002		<0.002	<0.002	
9/23/2021	<0.002								
1/31/2022									
2/1/2022		<0.002	<0.002				<0.002	<0.002	
2/2/2022				<0.002	<0.002				
2/3/2022	<0.002					<0.002			<0.002
8/30/2022				<0.002		<0.002	<0.002	<0.002	
8/31/2022	<0.002	<0.002							<0.002
9/1/2022			<0.002		<0.002				
1/31/2023									
2/1/2023		<0.002	<0.002			<0.002	<0.002		
2/2/2023	<0.002			<0.002	<0.002			<0.002	<0.002
8/28/2023									
8/29/2023		<0.002		<0.002	<0.002	<0.002			0.000511 (J)
9/6/2023			<0.002				<0.002	<0.002	
9/7/2023	<0.002								
1/23/2024									<0.002
1/24/2024	<0.002	<0.002					<0.002		

ND substitution: RL or RL/2 if <15% NDs.

Prediction Limit

Constituent: Lead (mg/L) Analysis Run 12/13/2024 1:28 PM View: Appendix I

Grumman Road Landfill Client: Southern Company Data: Grumman Road Landfill

	GWC-15	GWC-17	GWC-16	GWB-4R	GWC-2	GWB-5R	GWC-20	GWC-21	GWC-22
1/25/2024			<0.002		<0.002			<0.002	
2/7/2024				<0.002					
2/8/2024						<0.002			
8/19/2024									
8/20/2024				<0.002					
8/21/2024	<0.002	<0.002	<0.002		<0.002	0.000522 (J)	<0.002		<0.002
8/22/2024								<0.002	

ND substitution: RL or RL/2 if <15% NDs.

Prediction Limit

Constituent: Selenium (mg/L) Analysis Run 12/13/2024 1:28 PM View: Appendix I

Grumman Road Landfill Client: Southern Company Data: Grumman Road Landfill

	GWA-7 (bg)	GWB-6R	GWC-1	GWB-4R	GWC-9	GWC-11	GWC-12	GWC-13	GWA-8 (bg)
9/29/2000	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
11/21/2000	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	
1/20/2001	<0.005	<0.005	0.017	0.014 (O)	<0.005	<0.005	<0.005	<0.005	<0.005
3/14/2001	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
7/16/2001	<0.005	<0.005	<0.005	0.015 (O)	<0.005	<0.005	<0.005	<0.005	<0.005
11/1/2001	<0.005	<0.005	<0.005	0.012 (O)	<0.005	<0.005	<0.005	<0.005	<0.005
4/25/2002	<0.005	<0.005	0.012	0.01	<0.005	<0.005	<0.005	<0.005	<0.005
11/20/2002		0.008	0.19 (O)	0.026 (O)	<0.005	<0.005	<0.005	<0.005	<0.005
6/6/2003	<0.005	0.0066	0.32 (O)	0.022 (O)	<0.005	<0.005	<0.005	<0.005	<0.005
12/12/2003	<0.005	0.0056	0.013	0.028 (O)	<0.005	<0.005	<0.005	<0.005	<0.005
5/26/2004	<0.005	0.0084	0.017	0.012 (O)	<0.005	<0.005	<0.005	<0.005	<0.005
12/7/2004	<0.005	<0.005	0.011	0.0073	<0.005	<0.005	<0.005	<0.005	<0.005
6/21/2005	<0.005	0.0062	0.0088	0.0087	0.0062	<0.005	<0.005	<0.005	<0.005
12/12/2005	<0.005	<0.005	0.011	0.013 (O)	<0.005	<0.005	<0.005	<0.005	<0.005
4/4/2006									<0.005
6/27/2006	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
8/30/2006									<0.005
12/4/2006	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
2/15/2007									<0.005
6/23/2007	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
9/11/2007									<0.005
12/11/2007	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
3/11/2008									<0.005
6/23/2008	<0.005				<0.005	<0.005	<0.005	<0.005	<0.005
6/24/2008		<0.005	<0.005	<0.005					
11/3/2008									<0.005
12/4/2008	<0.005				<0.005	<0.005	<0.005	<0.005	<0.005
12/5/2008		<0.005	<0.005	<0.005					
3/25/2009									<0.005
7/7/2009	<0.005	<0.005	<0.005	<0.005					<0.005
7/8/2009					<0.005	<0.005	<0.005	<0.005	
9/14/2009									<0.005
12/20/2009	<0.005		<0.005						<0.005
12/21/2009		<0.005		<0.005	<0.005	<0.005	<0.005	<0.005	
3/4/2010									<0.005
6/20/2010	<0.005	<0.005	<0.005		<0.005	<0.005	<0.005	<0.005	<0.005
6/21/2010				<0.005					
9/14/2010									<0.005
1/6/2011			<0.005			<0.005		<0.005	
1/7/2011	<0.005	<0.005		<0.005	<0.005		<0.005		<0.005
4/15/2011									<0.005
7/7/2011	<0.005	<0.005	<0.005			<0.005	<0.005	<0.005	<0.005
7/8/2011				<0.005	<0.005				
9/25/2011									<0.005
1/17/2012	<0.005		<0.005			0.023	<0.005	<0.005	<0.005
1/18/2012		<0.005		<0.005	<0.005				
4/4/2012									<0.005
7/9/2012	<0.005		<0.005			0.016	<0.005	<0.005	
7/10/2012		<0.005		<0.005	<0.005				<0.005
10/9/2012									<0.005
1/17/2013			<0.005			0.033	<0.005	<0.005	
1/18/2013	0.009	<0.005		<0.005	<0.005				<0.005

ND substitution: RL or RL/2 if <15% NDs.

Prediction Limit

Constituent: Selenium (mg/L) Analysis Run 12/13/2024 1:28 PM View: Appendix I

Grumman Road Landfill Client: Southern Company Data: Grumman Road Landfill

	GWA-7 (bg)	GWB-6R	GWC-1	GWB-4R	GWC-9	GWC-11	GWC-12	GWC-13	GWA-8 (bg)
4/5/2013									<0.005
7/16/2013			0.012			0.0068	<0.005	<0.005	
7/17/2013	0.011	<0.005		<0.005	<0.005				<0.005
10/11/2013									<0.005
1/13/2014	0.012		<0.005			0.036	<0.005	<0.005	
1/14/2014		<0.005		<0.005	<0.005				<0.005
4/3/2014									<0.005
7/8/2014						0.017	<0.005	<0.005	
7/9/2014	0.011	<0.005	<0.005	<0.005	<0.005				<0.005
7/10/2014									
10/24/2014									<0.005
1/12/2015				<0.005					
1/13/2015	0.0092		<0.005			0.027	<0.005	<0.005	
1/14/2015		<0.005			<0.005				<0.005
5/10/2015									<0.005
5/11/2015									
7/16/2015	0.014		<0.005	<0.005		<0.005	<0.005	<0.005	
7/17/2015		<0.005			<0.005				<0.005
7/18/2015									
10/6/2015									<0.005
1/17/2016			0.023						
1/18/2016	0.023	<0.005		<0.005	<0.005		<0.005	<0.005	<0.005
1/19/2016						0.023			
4/26/2016									<0.005
7/26/2016						0.0056 (J)		<0.005	
7/27/2016	0.0323		0.002 (J)				0.0025 (J)		
7/28/2016		<0.005			<0.005				0.001 (J)
7/29/2016				0.0036 (J)					
8/30/2016		<0.005	0.002 (J)						<0.005
8/31/2016					<0.005	0.0084 (J)	0.0019 (J)	<0.005	
9/1/2016	0.0438			0.0067 (J)					
10/24/2016									0.0013 (J)
10/25/2016	0.031		0.0022 (J)						
10/26/2016		<0.005		0.0042 (J)		0.0052 (J)	0.002 (J)	<0.005	
10/27/2016					<0.005				
1/3/2017									<0.005
1/4/2017			0.0016 (J)			0.0062 (J)	<0.005		
1/5/2017		0.0014 (J)						<0.005	
1/6/2017	0.0324			0.0042 (J)	<0.005				
4/3/2017									<0.005
4/4/2017			0.0052 (J)	0.0043 (J)					
4/5/2017							<0.005		
4/6/2017	0.0188 (J)	<0.005			<0.005	0.0195		<0.005	
7/10/2017							<0.005		
7/11/2017						<0.005			<0.005
7/12/2017		<0.005	0.0024 (J)	0.0033 (J)	<0.005			<0.005	
7/13/2017	0.0118								
10/2/2017									<0.005
10/3/2017		<0.005	<0.005			0.0079 (J)			
10/4/2017	0.0195			0.0038 (J)	<0.005		<0.005	<0.005	
1/9/2018	<0.005	<0.005							<0.005
1/10/2018			0.0018 (J)					<0.005	

ND substitution: RL or RL/2 if <15% NDs.

Prediction Limit

Constituent: Selenium (mg/L) Analysis Run 12/13/2024 1:28 PM View: Appendix I

Grumman Road Landfill Client: Southern Company Data: Grumman Road Landfill

	GWA-7 (bg)	GWB-6R	GWC-1	GWB-4R	GWC-9	GWC-11	GWC-12	GWC-13	GWA-8 (bg)
1/11/2018				0.0029 (J)	<0.005	0.0054 (J)	<0.005		
7/9/2018									<0.005
7/10/2018		0.0016 (J)	0.0026 (J)						
7/11/2018	<0.005			0.0015 (J)	<0.005	0.0022 (J)	<0.005	<0.005	
1/16/2019	0.0071 (J)	<0.005	0.0018 (J)	<0.005				<0.005	<0.005
1/17/2019						<0.005	<0.005		
1/18/2019					<0.005				
1/21/2019									
3/25/2019	<0.005			<0.005					<0.005
3/26/2019		0.05 (J)	0.0023 (J)					<0.005	
3/27/2019					<0.005	0.01 (J)	<0.005		
7/30/2019									
8/26/2019	<0.005								<0.005
8/27/2019		0.0033 (J)	0.0016 (J)	<0.005		<0.005	<0.005	<0.005	
8/28/2019					<0.005				
10/7/2019									<0.005
10/8/2019	0.0072 (J)					<0.005		<0.005	
10/9/2019		<0.005	0.0024 (J)	<0.005	<0.005		<0.005		
4/6/2020	0.0078 (J)								<0.005
4/7/2020		<0.005	0.0013 (J)	0.0025 (J)		0.0021 (J)	<0.005		
4/8/2020					<0.005			<0.005	
8/17/2020							<0.005	<0.005	<0.005
8/18/2020						0.0028 (J)			
8/19/2020	<0.005	<0.005	0.002 (J)	<0.005	<0.005				
9/28/2020	0.01 (J)		<0.005					<0.005	<0.005
9/29/2020						0.0024 (J)	<0.005		
9/30/2020		0.0023 (J)							
10/1/2020				<0.005	<0.005				
3/10/2021		0.0049 (J)	0.0026 (J)	0.0021 (J)	<0.005	0.0044 (J)	0.003 (J)		
3/11/2021	<0.005								
3/12/2021									<0.005
3/15/2021								<0.005	
3/16/2021									
9/21/2021	<0.005	0.0016 (J)		<0.005		0.0038 (J)	<0.005	<0.005	<0.005
9/22/2021					<0.005				
9/23/2021			0.0018 (J)						
1/31/2022	<0.005								<0.005
2/1/2022									
2/2/2022		0.0017 (J)		<0.005	<0.005				
2/3/2022			0.0022 (J)			0.019	<0.005	<0.005	
8/30/2022	0.0063	0.00277 (J)		0.00265 (J)			<0.005		<0.005
8/31/2022						0.00344 (J)		<0.005	
9/1/2022			0.00252 (J)		<0.005				
1/31/2023	0.00443 (J)								<0.005
2/1/2023		0.00182 (J)			<0.005	0.00333 (J)	<0.005	<0.005	
2/2/2023			0.0022 (J)	0.00466 (J)					
8/28/2023	0.00544								<0.005
8/29/2023		0.00204 (J)	0.00182 (J)	0.00261 (J)	<0.005			<0.005	
9/6/2023						0.0036 (J)	<0.005		
9/7/2023									
1/23/2024	0.00657	0.00223 (J)	0.00168 (J)						<0.005
1/24/2024					<0.005	0.00303 (J)			

ND substitution: RL or RL/2 if <15% NDs.

Prediction Limit

Constituent: Selenium (mg/L) Analysis Run 12/13/2024 1:28 PM View: Appendix I

Grumman Road Landfill Client: Southern Company Data: Grumman Road Landfill

	GWA-7 (bg)	GWB-6R	GWC-1	GWB-4R	GWC-9	GWC-11	GWC-12	GWC-13	GWA-8 (bg)
1/25/2024							<0.005	<0.005	
2/7/2024				0.00258 (J)					
2/8/2024									
8/19/2024	0.00709								
8/20/2024		0.00254 (J)	0.00155 (J)	0.00381 (J)					
8/21/2024					<0.005	0.00627	<0.005	<0.005	<0.005
8/22/2024									

Prediction Limit

Constituent: Selenium (mg/L) Analysis Run 12/13/2024 1:28 PM View: Appendix I

Grumman Road Landfill Client: Southern Company Data: Grumman Road Landfill

	GWC-17	GWC-14	GWC-15	GWC-16	GWB-5R	GWC-2	GWC-22	GWC-21	GWC-20
9/29/2000	<0.005	<0.005	<0.005	<0.005	<0.005				
11/21/2000	<0.005	0.052	<0.005	<0.005	<0.005	<0.005			
1/20/2001	<0.005	0.053	<0.005	<0.005	<0.005	<0.005			
3/14/2001	<0.005	0.049	<0.005	<0.005	<0.005	<0.005			
7/16/2001	<0.005	0.038	<0.005	<0.005	<0.005	<0.005			
11/1/2001	<0.005	0.022	<0.005	<0.005	<0.005	<0.005			
4/25/2002	<0.005	0.1	<0.005	<0.005	<0.005	<0.005			
11/20/2002	<0.005	0.018	0.0094	<0.005	0.0064	<0.005			
6/6/2003	<0.005	<0.005	0.021 (O)	0.021 (O)	0.011	<0.005			
12/12/2003	<0.005	<0.005	0.016 (O)	0.0078	<0.005	<0.005			
5/26/2004	<0.005	0.023	<0.005	0.0053	0.007	0.005			
12/7/2004	<0.005	0.019	<0.005	<0.005	<0.005	<0.005			
6/21/2005	<0.005	0.019	<0.005	<0.005	0.0063	<0.005			
12/12/2005	<0.005	0.0095	<0.005	<0.005	<0.005	<0.005			
4/4/2006		0.033		<0.005					
6/27/2006	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005			
8/30/2006		<0.005		<0.005					
12/4/2006	<0.005	0.032	<0.005	<0.005	<0.005	<0.005			
2/15/2007		0.034		<0.005					
6/23/2007	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005			
9/11/2007		0.022		<0.005					
12/11/2007	<0.005	0.045	<0.005	<0.005	<0.005	<0.005			
3/11/2008		0.02		<0.005					
6/23/2008									
6/24/2008	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005			
11/3/2008		0.052		<0.005					
12/4/2008		0.054				<0.005			
12/5/2008	<0.005		<0.005	<0.005	<0.005				
3/25/2009		0.072		<0.005					
7/7/2009					<0.005				
7/8/2009	<0.005	0.021	<0.005	<0.005		<0.005			
9/14/2009		0.015		<0.005					
12/20/2009		0.072	<0.005	<0.005		<0.005			
12/21/2009	<0.005				<0.005				
3/4/2010		0.083		<0.005					
6/20/2010		0.1	<0.005		<0.005	<0.005			
6/21/2010	<0.005			<0.005			<0.005	0.048	<0.005
9/14/2010		0.085		<0.005					
1/6/2011					<0.005	<0.005			
1/7/2011	<0.005	0.028	<0.005	<0.005			<0.005	0.014	<0.005
4/15/2011		<0.005		<0.005					
7/7/2011		<0.005	<0.005	<0.005	<0.005				<0.005
7/8/2011	<0.005						<0.005	0.018	<0.005
9/25/2011		0.02		<0.005					
1/17/2012		0.016	<0.005		<0.005	<0.005			
1/18/2012	<0.005			<0.005			<0.005	<0.005	<0.005
4/4/2012		0.0156		<0.005					
7/9/2012		<0.005	0.066		<0.005	<0.005			
7/10/2012	<0.005			<0.005			<0.005	0.02	<0.005
10/9/2012		0.0094		<0.005					
1/17/2013					<0.005	<0.005			
1/18/2013	<0.005	0.0067	0.04 (O)	<0.005			<0.005	0.015	0.005

ND substitution: RL or RL/2 if <15% NDs.

Prediction Limit

Constituent: Selenium (mg/L) Analysis Run 12/13/2024 1:28 PM View: Appendix I

Grumman Road Landfill Client: Southern Company Data: Grumman Road Landfill

	GWC-17	GWC-14	GWC-15	GWC-16	GWB-5R	GWC-2	GWC-22	GWC-21	GWC-20
4/5/2013		0.0077		<0.005					
7/16/2013					<0.005				
7/17/2013	<0.005	0.01	<0.005	<0.005		<0.005	<0.005	0.037	<0.005
10/11/2013		0.0087		0.0069					
1/13/2014			<0.005		<0.005	<0.005			
1/14/2014	<0.005	0.012		<0.005			<0.005	0.043	<0.005
4/3/2014		0.022		<0.005					
7/8/2014									
7/9/2014	<0.005	0.0089	<0.005	0.005	<0.005	<0.005		0.023	
7/10/2014							<0.005		<0.005
10/24/2014		0.017		<0.005					
1/12/2015									<0.005
1/13/2015			<0.005		<0.005	<0.005			
1/14/2015	<0.005	<0.005		<0.005			<0.005	0.022	
5/10/2015		<0.005							
5/11/2015				<0.005					
7/16/2015			<0.005	<0.005	<0.005	<0.005			
7/17/2015		<0.005						0.033	
7/18/2015	<0.005						<0.005		<0.005
10/6/2015		<0.005		0.0073					
1/17/2016		<0.005	<0.005	0.0031 (J)		<0.005		0.021	<0.005
1/18/2016	<0.005				<0.005		<0.005		
1/19/2016									
4/26/2016		0.00428 (J)		0.00497 (J)					
7/26/2016									
7/27/2016		0.0038 (J)	<0.005		<0.005	0.002 (J)			
7/28/2016				0.0076 (J)				0.0341	<0.005
7/29/2016	0.0011 (J)						0.0022 (J)		
8/30/2016					<0.005				
8/31/2016						<0.005	0.0014 (J)		
9/1/2016	0.0012 (J)	0.0056 (J)	<0.005	0.0052 (J)				0.0297	<0.005
10/24/2016									
10/25/2016		0.0023 (J)	<0.005	0.0085 (J)				0.0095 (J)	0.0014 (J)
10/26/2016	0.0013 (J)				<0.005	0.0035 (J)	0.001 (J)		
10/27/2016									
1/3/2017					<0.005				
1/4/2017				0.0048 (J)			<0.005	0.022	0.0014 (J)
1/5/2017	0.0012 (J)	0.0038 (J)	<0.005			<0.005			
1/6/2017									
4/3/2017			<0.005						
4/4/2017		0.0064 (J)				<0.005		0.0236	<0.005
4/5/2017	<0.005			0.0068 (J)					
4/6/2017					<0.005		<0.005		
7/10/2017									
7/11/2017		0.0044 (J)	<0.005				<0.005		<0.005
7/12/2017				0.0048 (J)	<0.005				
7/13/2017	0.0018 (J)					<0.005		0.013	
10/2/2017		0.004 (J)	<0.005						<0.005
10/3/2017				0.0051 (J)	<0.005	<0.005		0.01 (J)	
10/4/2017	0.0042 (J)						0.0023 (J)		
1/9/2018		0.0019 (J)	0.0019 (J)					0.0162	
1/10/2018				0.0018 (J)	<0.005	<0.005			<0.005

ND substitution: RL or RL/2 if <15% NDs.

Prediction Limit

Constituent: Selenium (mg/L) Analysis Run 12/13/2024 1:28 PM View: Appendix I

Grumman Road Landfill Client: Southern Company Data: Grumman Road Landfill

	GWC-17	GWC-14	GWC-15	GWC-16	GWB-5R	GWC-2	GWC-22	GWC-21	GWC-20
1/11/2018	<0.005						<0.005		
7/9/2018		0.0029 (J)							<0.005
7/10/2018			0.0086 (J)	0.0045 (J)	0.0018 (J)	<0.005		0.016	
7/11/2018	0.0016 (J)						<0.005		
1/16/2019	<0.005	0.0016 (J)			<0.005				
1/17/2019			0.0029 (J)	0.0031 (J)				0.011	
1/18/2019							<0.005		
1/21/2019						<0.005			0.0014 (J)
3/25/2019									<0.005
3/26/2019	<0.005	0.0022 (J)	0.0074 (J)	0.0033 (J)	<0.005			0.022	
3/27/2019							<0.005		
7/30/2019						<0.005			
8/26/2019									
8/27/2019		0.0035 (J)	0.0092 (J)			<0.005	<0.005		
8/28/2019	<0.005			0.004 (J)	0.0033 (J)			0.019	0.0014 (J)
10/7/2019									
10/8/2019		0.0026 (J)	0.014	0.0023 (J)				0.019	
10/9/2019	<0.005				0.0073 (J)	<0.005	<0.005		<0.005
4/6/2020									
4/7/2020		0.005 (J)	0.0029 (J)	<0.005	<0.005		<0.005	0.012	
4/8/2020	<0.005					<0.005			0.0013 (J)
8/17/2020									
8/18/2020	0.002 (J)	0.0029 (J)	0.0022 (J)	0.0058 (J)		<0.005	<0.005	0.013	<0.005
8/19/2020					<0.005				
9/28/2020									
9/29/2020		0.0051 (J)				<0.005			
9/30/2020	<0.005		<0.005	0.0037 (J)	<0.005		<0.005	0.0061 (J)	<0.005
10/1/2020									
3/10/2021					0.006		<0.005		
3/11/2021	0.0016 (J)								
3/12/2021			0.0064						<0.005
3/15/2021						<0.005			
3/16/2021		0.0034 (J)		0.0044 (J)				0.0055	
9/21/2021					<0.005		<0.005		
9/22/2021	<0.005	0.0034 (J)		0.0031 (J)		<0.005		0.0027 (J)	0.0024 (J)
9/23/2021			0.0016 (J)						
1/31/2022									
2/1/2022	<0.005			0.0024 (J)				0.0054	<0.005
2/2/2022		0.0038 (J)				<0.005			
2/3/2022			0.0031 (J)		<0.005		<0.005		
8/30/2022		0.00544			<0.005			0.00648	0.00192 (J)
8/31/2022	<0.005		0.00192 (J)				<0.005		
9/1/2022				0.00334 (J)		<0.005			
1/31/2023									
2/1/2023	<0.005			<0.005	0.00187 (J)				<0.005
2/2/2023		0.0035 (J)	<0.005			<0.005	<0.005	0.00542	
8/28/2023									
8/29/2023	<0.005				<0.005	<0.005	<0.005		
9/6/2023		0.00516		0.00161 (J)				0.00554	<0.005
9/7/2023			<0.005						
1/23/2024							<0.005		
1/24/2024	<0.005		0.0028 (J)						0.00455 (J)

ND substitution: RL or RL/2 if <15% NDs.

Prediction Limit

Constituent: Selenium (mg/L) Analysis Run 12/13/2024 1:28 PM View: Appendix I

Grumman Road Landfill Client: Southern Company Data: Grumman Road Landfill

	GWC-17	GWC-14	GWC-15	GWC-16	GWB-5R	GWC-2	GWC-22	GWC-21	GWC-20
1/25/2024		0.00311 (J)		0.00185 (J)		<0.005		0.00452 (J)	
2/7/2024									
2/8/2024					0.00485 (J)				
8/19/2024									
8/20/2024									
8/21/2024	<0.005	0.00337 (J)	0.00314 (J)	0.00313 (J)	0.00214 (J)	<0.005	<0.005		0.00209 (J)
8/22/2024								0.00594	

ND substitution: RL or RL/2 if <15% NDs.

Prediction Limit

Constituent: Vanadium (mg/L) Analysis Run 12/13/2024 1:28 PM View: Appendix I

Grumman Road Landfill Client: Southern Company Data: Grumman Road Landfill

	GWA-7 (bg)	GWC-9	GWB-5R	GWB-6R	GWC-1	GWC-11	GWC-12	GWB-4R	GWC-13
9/29/2000	<0.02	<0.02	0.038	0.12	<0.02	<0.02	<0.02	0.06	<0.02
11/21/2000	<0.02	<0.02	0.013	0.13	<0.02	<0.02	<0.02	0.068	<0.02
1/20/2001	<0.02	<0.02	0.038	0.14	<0.02	<0.02	<0.02	0.12	<0.02
3/14/2001	<0.02	<0.02	0.077	0.13	<0.02	<0.02	<0.02	0.08	<0.02
7/16/2001	<0.02	<0.02	0.12 (O)	0.18	<0.02	<0.02	<0.02	0.11	<0.02
11/1/2001	<0.02	<0.02	0.21 (O)	0.12	<0.02	<0.02	<0.02	0.079	<0.02
4/25/2002	<0.02	<0.02	0.086	0.15	<0.02	<0.02	<0.02	0.11	<0.02
11/20/2002		0.014	0.14 (O)	0.15	0.0069	0.0071	<0.02	0.15	<0.02
6/6/2003	0.047	<0.02	0.12 (O)	0.11	0.16 (O)	0.0098	<0.02	0.12	0.0063
12/12/2003	0.0086	<0.02	0.014	0.089	<0.02	0.0074	<0.02	0.13	<0.02
5/26/2004	<0.02	<0.02	0.06	0.09	<0.02	<0.02	<0.02	0.095	<0.02
12/7/2004	<0.02	<0.02	0.054	0.072	<0.02	<0.02	<0.02	0.067	<0.02
6/21/2005	<0.02	<0.02	0.038	0.04	<0.02	<0.02	<0.02	0.062	<0.02
12/12/2005	<0.02	<0.02	0.0056	0.021	<0.02	<0.02	<0.02	0.09	<0.02
4/4/2006									
6/27/2006	<0.02	<0.02	0.0043	0.02	0.0029	<0.02	<0.02	0.083	<0.02
8/30/2006									
12/4/2006	0.0027	<0.02	0.0044	0.022	0.0047	<0.02	<0.02	0.084	<0.02
2/15/2007									
6/23/2007	0.0027	<0.02	0.0039	0.027	0.0029	0.0036	<0.02	0.081	<0.02
9/11/2007									
12/11/2007	0.0033	<0.02	0.0029	0.017	<0.02	<0.02	<0.02	0.067	<0.02
3/11/2008									
6/23/2008	0.0074	<0.02				<0.02	<0.02		<0.02
6/24/2008			0.003	0.053	<0.02			0.059	
11/3/2008									
12/4/2008	0.0084	<0.02				<0.02	<0.02		<0.02
12/5/2008			<0.02	0.0078	<0.02			0.054	
3/25/2009									
7/7/2009	0.023		<0.02	0.012	<0.02			0.038	
7/8/2009		0.0029				0.0026	<0.02		<0.02
9/14/2009									
12/20/2009	0.007				<0.02				
12/21/2009		<0.02	<0.02	0.011		<0.02	<0.02	0.06	<0.02
3/4/2010									
6/20/2010	0.0047	<0.02	<0.02	0.0083	0.0037	<0.02	<0.02		<0.02
6/21/2010								0.036	
9/14/2010									
1/6/2011			0.0067		<0.02	0.003			0.0028
1/7/2011	0.018	<0.02		0.0079			<0.02	0.043	
4/15/2011									
7/7/2011	0.019		0.019	0.007	0.0045	0.004	<0.02		<0.02
7/8/2011		<0.02						0.044	
9/25/2011									
1/17/2012	0.0298		0.021		<0.02	<0.02	<0.02		<0.02
1/18/2012		<0.02		0.0116				0.045	
4/4/2012									
7/9/2012	0.14		0.032		0.0026	0.005	<0.02		<0.02
7/10/2012		<0.02		0.0096				0.048	
10/9/2012									
1/17/2013			0.034		<0.02	0.005	<0.02		<0.02
1/18/2013	0.21	<0.02		<0.02				0.049	

ND substitution: RL or RL/2 if <15% NDs.

Prediction Limit

Constituent: Vanadium (mg/L) Analysis Run 12/13/2024 1:28 PM View: Appendix I

Grumman Road Landfill Client: Southern Company Data: Grumman Road Landfill

	GWA-7 (bg)	GWC-9	GWB-5R	GWB-6R	GWC-1	GWC-11	GWC-12	GWB-4R	GWC-13
4/5/2013									
7/16/2013			0.021		<0.02	<0.02	<0.02		<0.02
7/17/2013	0.18	<0.02		<0.02				0.05	
10/11/2013									
1/13/2014	0.24		0.008		<0.02	<0.02	<0.02		<0.02
1/14/2014		<0.02		<0.02				0.067	
4/3/2014									
7/8/2014						0.0024 (J)	0.0034 (J)		0.002 (J)
7/9/2014	0.22	0.0016 (J)	0.0052	0.0039 (J)	0.0041 (J)			0.055	
7/10/2014									
10/24/2014									
1/12/2015								0.066	
1/13/2015	0.19		0.0036 (J)		0.0029 (J)	0.0023 (J)	<0.02		0.0015 (J)
1/14/2015		<0.02		0.005					
5/10/2015									
5/11/2015									
7/16/2015	0.23		0.004 (J)		0.0034 (J)	0.002 (J)	0.0049 (J)	0.045	<0.02
7/17/2015		0.0029 (J)		0.0045 (J)					
7/18/2015									
10/6/2015									
1/17/2016					0.0046 (J)				
1/18/2016	0.41 (o)	<0.02	0.0069	0.0044 (J)			0.0058	0.049	0.0011 (J)
1/19/2016						0.0025 (J)			
4/26/2016									
7/26/2016						0.0027 (J)			<0.02
7/27/2016	0.397 (o)		0.0046 (J)		0.0064 (J)		0.0058 (J)		
7/28/2016		<0.02		0.0038 (J)					
7/29/2016								0.0388	
10/24/2016									
10/25/2016	0.425 (o)								
1/3/2017			<0.02						
1/4/2017					<0.02	<0.02	<0.02		
1/5/2017				0.0077 (J)					<0.02
1/6/2017	0.41 (o)	<0.02						0.0341	
4/3/2017									
4/4/2017					0.0061 (J)			0.0371	
4/5/2017							0.0039 (J)		
4/6/2017	0.297 (o)	<0.02	0.0063 (J)	0.0069 (J)		0.0025 (J)			<0.02
7/10/2017							0.0062 (J)		
7/11/2017						0.0027 (J)			
7/12/2017		0.0013 (J)	0.0064 (J)	0.0098 (J)	0.0067 (J)			0.0399	0.0016 (J)
7/13/2017	0.194								
10/2/2017									
10/3/2017									
10/4/2017	0.316 (o)								
1/9/2018	0.194			0.0086 (J)					
1/10/2018			0.0077 (J)		0.0056 (J)				0.0019 (J)
1/11/2018		<0.02				0.0019 (J)	0.0025 (J)	0.0327	
7/9/2018									
7/10/2018			0.016	0.0098 (J)	0.0056 (J)				
7/11/2018	0.15	<0.02				0.0021 (J)	0.0059 (J)	0.02	0.0097 (J)
1/16/2019	0.16		0.0033 (J)	0.077	0.0043 (J)			0.0022 (J)	<0.02

ND substitution: RL or RL/2 if <15% NDs.

Prediction Limit

Constituent: Vanadium (mg/L) Analysis Run 12/13/2024 1:28 PM View: Appendix I

Grumman Road Landfill Client: Southern Company Data: Grumman Road Landfill

	GWA-7 (bg)	GWC-9	GWB-5R	GWB-6R	GWC-1	GWC-11	GWC-12	GWB-4R	GWC-13
1/17/2019						0.0021 (J)	<0.02		
1/18/2019		<0.02							
1/21/2019									
3/25/2019	0.18							0.004 (J)	
3/26/2019			0.0058 (J)	0.086	0.0051 (J)				0.0029 (J)
3/27/2019		<0.02				0.0023 (J)	0.0049 (J)		
7/30/2019									
10/7/2019									
10/8/2019	0.11					<0.02			<0.02
10/9/2019		<0.02	0.033 (J)	0.018 (J)	<0.02		0.0021 (J)	<0.02	
4/6/2020	0.12								
4/7/2020			0.0053 (J)	0.041 (J)	0.0015 (J)	<0.02	0.0024 (J)	0.0037 (J)	
4/8/2020		0.0015 (J)							<0.02
9/28/2020	0.1				0.0042 (J)				<0.02
9/29/2020						0.0023 (J)	0.0046 (J)		
9/30/2020			0.0037 (J)	0.018					
10/1/2020		<0.02						0.0047 (J)	
3/10/2021		<0.02	0.0026 (J)	0.027	0.005 (J)	0.0023 (J)	0.0055 (J)	0.0054 (J)	
3/11/2021	0.14								
3/12/2021									
3/15/2021									<0.02
3/16/2021									
9/21/2021	0.096		0.0039 (J)	0.015		0.002 (J)	0.0051 (J)	0.0027 (J)	<0.02
9/22/2021		<0.02							
9/23/2021					0.0042 (J)				
1/31/2022	0.1								
2/1/2022									
2/2/2022		<0.02		0.0099 (J)				0.0031 (J)	
2/3/2022			0.0046 (J)		0.0028 (J)	0.0031 (J)	0.0052 (J)		<0.02
8/30/2022	0.11		0.0138 (J)	0.0192 (J)			0.00949 (J)	0.00943 (J)	
8/31/2022						0.00481 (J)			<0.02
9/1/2022		0.00514 (J)			0.00748 (J)				
1/31/2023	0.106								
2/1/2023		<0.02	0.0255	0.0201		0.00373 (J)	0.0056 (J)		<0.02
2/2/2023					0.00497 (J)			0.021	
8/28/2023	0.137								
8/29/2023		0.0103 (J)	0.00917 (J)	0.0226	0.0146 (J)			0.0201	0.0188 (J)
9/6/2023						0.00685 (J)	0.0101 (J)		
9/7/2023									
1/23/2024	0.148			0.022	<0.02				
1/24/2024		<0.02				0.00641 (J)			
1/25/2024							0.00544 (J)		0.00439 (J)
2/7/2024								0.0119 (J)	
2/8/2024			0.0609						
8/19/2024	0.125								
8/20/2024				0.0155 (J)	<0.02			0.0189 (J)	
8/21/2024		<0.02	0.0209			0.00332 (J)	0.00869 (J)		<0.02
8/22/2024									

ND substitution: RL or RL/2 if <15% NDs.

Prediction Limit

Constituent: Vanadium (mg/L) Analysis Run 12/13/2024 1:28 PM View: Appendix I

Grumman Road Landfill Client: Southern Company Data: Grumman Road Landfill

	GWA-8 (bg)	GWC-14	GWC-15	GWC-17	GWC-16	GWC-2	GWC-21	GWC-22	GWC-20
9/29/2000	<0.02	<0.02	<0.02	<0.02	<0.02				
11/21/2000		<0.02	<0.02	<0.02	<0.02	<0.02			
1/20/2001	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02			
3/14/2001	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02			
7/16/2001	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02			
11/1/2001	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02			
4/25/2002	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02			
11/20/2002	<0.02	0.03	0.0099	<0.02	0.0069	<0.02			
6/6/2003	0.017	0.0065	0.019	<0.02	0.082	<0.02			
12/12/2003	0.011	0.0052	0.018	<0.02	0.012	<0.02			
5/26/2004	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02			
12/7/2004	<0.02	0.0074	<0.02	<0.02	<0.02	<0.02			
6/21/2005	<0.02	0.01	<0.02	<0.02	<0.02	<0.02			
12/12/2005	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02			
4/4/2006	<0.02	0.013			<0.02				
6/27/2006	<0.02	<0.02	<0.02	0.0025	<0.02	<0.02			
8/30/2006	<0.02	0.0039			<0.02				
12/4/2006	<0.02	0.016	<0.02	<0.02	0.0031	<0.02			
2/15/2007	<0.02	0.017			0.0025				
6/23/2007	<0.02	0.0076	<0.02	<0.02	0.0032	<0.02			
9/11/2007	<0.02	0.012			<0.02				
12/11/2007	<0.02	0.017	<0.02	<0.02	<0.02	<0.02			
3/11/2008	<0.02	0.012			<0.02				
6/23/2008	<0.02								
6/24/2008		0.0069	<0.02	<0.02	<0.02	<0.02			
11/3/2008	<0.02	0.016			0.0032				
12/4/2008	<0.02	0.013				<0.02			
12/5/2008			<0.02	<0.02	<0.02				
3/25/2009	<0.02	0.014			<0.02				
7/7/2009	<0.02								
7/8/2009		0.014	<0.02	<0.02	0.0036	<0.02			
9/14/2009	<0.02	0.0072			0.0026				
12/20/2009	<0.02	0.02	<0.02		0.0031	<0.02			
12/21/2009				<0.02					
3/4/2010	<0.02	0.023			<0.02				
6/20/2010	<0.02	0.017	<0.02			<0.02			
6/21/2010				<0.02	0.0025		<0.02	<0.02	<0.02
9/14/2010	<0.02	0.018			0.0035				
1/6/2011						<0.02			
1/7/2011	<0.02	0.019	<0.02	<0.02	0.0036		0.0031	<0.02	0.0029
4/15/2011	<0.02	0.019			<0.02				
7/7/2011	<0.02	0.014	0.0036		0.003				<0.02
7/8/2011				0.0031			0.0048	<0.02	0.0046
9/25/2011	<0.02	0.015			0.0037				
1/17/2012	<0.02	0.021	<0.02			<0.02			
1/18/2012				<0.02	<0.02		<0.02	<0.02	<0.02
4/4/2012	<0.02	0.0191			<0.02				
7/9/2012		0.026	0.0059			<0.02			
7/10/2012	<0.02			<0.02	0.0026		<0.02	<0.02	0.0081
10/9/2012	<0.02	0.049			0.007				
1/17/2013						<0.02			
1/18/2013	<0.02	0.036	<0.02	<0.02	<0.02		<0.02	<0.02	0.0063

ND substitution: RL or RL/2 if <15% NDs.

Prediction Limit

Constituent: Vanadium (mg/L) Analysis Run 12/13/2024 1:28 PM View: Appendix I

Grumman Road Landfill Client: Southern Company Data: Grumman Road Landfill

	GWA-8 (bg)	GWC-14	GWC-15	GWC-17	GWC-16	GWC-2	GWC-21	GWC-22	GWC-20
4/5/2013	<0.02	0.04			<0.02				
7/16/2013									
7/17/2013	<0.02	0.062	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02
10/11/2013	<0.02	0.032			<0.02				
1/13/2014			<0.02			<0.02			
1/14/2014	<0.02	0.044		<0.02	<0.02		0.006	<0.02	<0.02
4/3/2014	0.0015 (J)	0.077 (O)			0.0032 (J)				
7/8/2014									
7/9/2014	0.0012 (J)	0.032	0.0012 (J)	0.0012 (J)	0.0031 (J)	<0.02	0.0019 (J)		
7/10/2014								0.0053	0.0026 (J)
10/24/2014	<0.02	0.045			0.0028 (J)				
1/12/2015									0.0031 (J)
1/13/2015			0.0013 (J)			<0.02			
1/14/2015	<0.02	0.031		0.002 (J)	0.0034 (J)		0.0037 (J)	0.0013 (J)	
5/10/2015	<0.02	0.013							
5/11/2015					0.0026 (J)				
7/16/2015			<0.02		0.0028 (J)	<0.02			
7/17/2015	<0.02	0.028					0.0028 (J)		
7/18/2015				<0.02				0.0043 (J)	0.003 (J)
10/6/2015	0.0012 (J)	0.02			0.0016 (J)				
1/17/2016		0.028	0.0013 (J)		0.0029 (J)	<0.02	0.0039 (J)		0.0025 (J)
1/18/2016	0.00079 (J)			0.0019 (J)				<0.02	
1/19/2016									
4/26/2016	<0.02	0.0181			0.00296 (J)				
7/26/2016									
7/27/2016		0.0189	<0.02			<0.02			
7/28/2016	<0.02				0.0026 (J)		0.0022 (J)		0.0024 (J)
7/29/2016				0.0031 (J)				0.0052 (J)	
10/24/2016	<0.02								
10/25/2016		0.0206	<0.02		<0.02				<0.02
1/3/2017	<0.02								
1/4/2017					<0.02		<0.02	<0.02	<0.02
1/5/2017		0.0172	<0.02	<0.02		<0.02			
1/6/2017									
4/3/2017	<0.02		0.002 (J)						
4/4/2017		0.0235				<0.02	0.003 (J)		0.0024 (J)
4/5/2017				0.0029 (J)	0.0033 (J)				
4/6/2017								<0.02	
7/10/2017									
7/11/2017	<0.02	0.0136	0.0022 (J)					0.0016 (J)	0.003 (J)
7/12/2017					0.0037 (J)				
7/13/2017				0.0037 (J)		<0.02	0.0019 (J)		
10/2/2017	<0.02	0.0175	0.0022 (J)						0.0028 (J)
10/3/2017					0.0036 (J)				
10/4/2017									
1/9/2018	0.0014 (J)	0.0103	0.0021 (J)				0.0046 (J)		
1/10/2018					0.0029 (J)	<0.02			0.0026 (J)
1/11/2018				0.0026 (J)				0.0012 (J)	
7/9/2018	<0.02	0.0078 (J)							<0.02
7/10/2018			0.0025 (J)		0.0025 (J)	<0.02	0.0031 (J)		
7/11/2018				0.0032 (J)				0.0025 (J)	
1/16/2019	<0.02	0.0043 (J)		<0.02					

ND substitution: RL or RL/2 if <15% NDs.

Prediction Limit

Constituent: Vanadium (mg/L) Analysis Run 12/13/2024 1:28 PM View: Appendix I
Grumman Road Landfill Client: Southern Company Data: Grumman Road Landfill

	GWA-8 (bg)	GWC-14	GWC-15	GWC-17	GWC-16	GWC-2	GWC-21	GWC-22	GWC-20
1/17/2019			<0.02		0.0021 (J)		0.0022 (J)		
1/18/2019								<0.02	
1/21/2019						0.0024 (J)			0.0031 (J)
3/25/2019	<0.02								0.0024 (J)
3/26/2019		0.0063 (J)	0.0026 (J)	0.0024 (J)	0.0038 (J)		0.0041 (J)		
3/27/2019								0.002 (J)	
7/30/2019						<0.02			
10/7/2019	<0.02								
10/8/2019		<0.02	<0.02		<0.02		<0.02		
10/9/2019				<0.02		<0.02		<0.02	<0.02
4/6/2020	<0.02								
4/7/2020		0.0026 (J)	<0.02		<0.02		<0.02	0.0014 (J)	
4/8/2020				<0.02		<0.02			<0.02
9/28/2020	<0.02								
9/29/2020		<0.02				<0.02			
9/30/2020			0.0028 (J)	<0.02	0.0028 (J)		0.0029 (J)	<0.02	0.0029 (J)
10/1/2020									
3/10/2021								<0.02	
3/11/2021				<0.02					
3/12/2021	<0.02		0.0037 (J)						0.0038 (J)
3/15/2021						<0.02			
3/16/2021		<0.02			0.0034 (J)		0.003 (J)		
9/21/2021	<0.02							<0.02	
9/22/2021		0.0052 (J)		<0.02	0.0025 (J)	<0.02	<0.02		0.0033 (J)
9/23/2021			0.0022 (J)						
1/31/2022	<0.02								
2/1/2022				0.0022 (J)	0.0021 (J)		0.0036 (J)		0.0039 (J)
2/2/2022		0.004 (J)				<0.02			
2/3/2022			0.0023 (J)					<0.02	
8/30/2022	0.00372 (J)	0.00933 (J)					0.00715 (J)		0.00647 (J)
8/31/2022			0.00476 (J)	0.00599 (J)				0.00396 (J)	
9/1/2022					0.0065 (J)	0.0045 (J)			
1/31/2023	<0.02								
2/1/2023				0.005 (J)	0.00361 (J)				0.00526 (J)
2/2/2023		0.00594 (J)	0.00453 (J)			<0.02	0.00537 (J)	<0.02	
8/28/2023	0.0148 (J)								
8/29/2023				0.0108 (J)		0.00777 (J)		0.0353	
9/6/2023		0.00671 (J)			0.00631 (J)		0.0101 (J)		0.00768 (J)
9/7/2023			0.00462 (J)						
1/23/2024	0.00564 (J)							0.00394 (J)	
1/24/2024			0.00594 (J)	0.0059 (J)					0.00642 (J)
1/25/2024		0.00731 (J)			0.00575 (J)	<0.02	0.00735 (J)		
2/7/2024									
2/8/2024									
8/19/2024									
8/20/2024									
8/21/2024	<0.02	0.0038 (J)	0.00338 (J)	<0.02	0.00407 (J)	<0.02		<0.02	0.00558 (J)
8/22/2024							0.00457 (J)		

ND substitution: RL or RL/2 if <15% NDs.

Prediction Limit

Constituent: Zinc (mg/L) Analysis Run 12/13/2024 1:28 PM View: Appendix I

Grumman Road Landfill Client: Southern Company Data: Grumman Road Landfill

	GWA-7 (bg)	GWC-1	GWB-5R	GWC-11	GWB-4R	GWC-17	GWC-12	GWC-9	GWC-13
9/29/2000	<0.02	<0.02	0.026	<0.02	<0.02	<0.02	0.38	<0.02	<0.02
11/21/2000	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	0.077	<0.02	<0.02
1/20/2001	<0.02	<0.02	0.031	<0.02	0.041	<0.02	0.23	<0.02	<0.02
3/14/2001	<0.02	<0.02	0.063	<0.02	<0.02	<0.02	0.24	<0.02	<0.02
7/16/2001	<0.02	<0.02	0.08	<0.02	0.059	<0.02	0.053	<0.02	<0.02
11/1/2001	<0.02	<0.02	0.16	<0.02	<0.02	<0.02	0.022	<0.02	0.044
4/25/2002	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	1.2 (O)	<0.02	<0.02
11/20/2002		<0.02	0.14	<0.02	0.061	0.014	0.045	0.033	0.023
6/6/2003	0.69 (O)	0.011	0.51 (O)	<0.02	0.041	0.012	0.042	<0.02	<0.02
12/12/2003	0.12	<0.02	<0.02	0.013	0.012	<0.02	<0.02	<0.02	<0.02
5/26/2004	0.013	<0.02	0.036	<0.02	0.016	<0.02	<0.02	<0.02	0.035
12/7/2004	<0.02	<0.02	0.069	0.028	<0.02	<0.02	<0.02	<0.02	0.018
6/21/2005	<0.02	<0.02	0.076	<0.02	<0.02	<0.02	<0.02	<0.02	0.014
12/12/2005	0.014	<0.02	<0.02	<0.02	0.017	<0.02	<0.02	0.032	0.023
4/4/2006									
6/27/2006	0.01	<0.02	0.01	0.0028	0.11	0.0046	0.012	0.018	0.023
8/30/2006									
12/4/2006	0.0065	<0.02	0.0035	0.0028	0.086	0.0071	0.0067	0.0044	0.046
2/15/2007									
6/23/2007	0.0049	<0.02	0.0032	0.0063	0.076	0.005	0.025	0.0041	0.036
9/11/2007									
12/11/2007	0.0043	<0.02	0.0079	<0.02	0.087	0.0033	0.0038	0.0039	0.011
3/11/2008									
6/23/2008	0.0025			<0.02			0.0051	<0.02	0.0091
6/24/2008		<0.02	<0.02		0.062	0.0037			
11/3/2008									
12/4/2008	0.0025			<0.02			<0.02	0.0039	0.0038
12/5/2008		<0.02	<0.02		0.014	0.0027			
3/25/2009									
7/7/2009	<0.02	<0.02	<0.02		0.052				
7/8/2009				<0.02		0.0048	<0.02	<0.02	<0.02
9/14/2009									
12/20/2009	0.0031	<0.02							
12/21/2009			<0.02	<0.02	0.046	0.0032	0.013	0.004	0.0032
3/4/2010									
6/20/2010	<0.02	<0.02	<0.02	<0.02			<0.02	<0.02	<0.02
6/21/2010					0.045	0.0028			
9/14/2010									
1/6/2011		<0.02	<0.02	<0.02					0.004
1/7/2011	<0.02				0.024	0.003	0.004	0.0032	
4/15/2011									
7/7/2011	0.0031	0.0025	0.0027	<0.02			0.0028		0.0037
7/8/2011					0.023	0.0034		0.0025	
9/25/2011									
1/17/2012	0.004	<0.02	0.0039	0.0043			0.0043		0.0031
1/18/2012					0.011	0.0049		0.0045	
4/4/2012									
7/9/2012	0.0096	<0.02	<0.02	<0.02			<0.02		0.003
7/10/2012					0.024	0.0039		<0.02	
10/9/2012									
1/17/2013		<0.02	<0.02	0.0025			0.0033		<0.02
1/18/2013	0.051				0.011	0.0043		0.0029	

ND substitution: RL or RL/2 if <15% NDs.

Prediction Limit

Constituent: Zinc (mg/L) Analysis Run 12/13/2024 1:28 PM View: Appendix I

Grumman Road Landfill Client: Southern Company Data: Grumman Road Landfill

	GWA-7 (bg)	GWC-1	GWB-5R	GWC-11	GWB-4R	GWC-17	GWC-12	GWC-9	GWC-13
4/5/2013									
7/16/2013		<0.02	0.0032	<0.02			0.0028		0.0029
7/17/2013	0.042				0.0029	0.0035		<0.02	
10/11/2013									
1/13/2014	0.0025	0.0025	0.0025	0.0025			0.0025		0.0025
1/14/2014					0.0025	0.0025		0.0025	
4/3/2014									
7/8/2014				0.0011 (J)			0.002 (J)		0.0018 (J)
7/9/2014	0.064	<0.02	0.00076 (J)		0.0051	0.0033		0.0016 (J)	
7/10/2014									
10/24/2014									
1/12/2015					0.0023 (J)				
1/13/2015	0.066	0.0025	0.0036	0.0021 (J)			0.0079		0.0028
1/14/2015						0.0067		0.0024 (J)	
5/10/2015									
5/11/2015									
7/16/2015	0.036	<0.02	<0.02	<0.02	0.0021 (J)		0.0026		0.0018 (J)
7/17/2015								0.0031	
7/18/2015						<0.02			
10/6/2015									
1/17/2016		<0.02							
1/18/2016	0.035		<0.02		0.0092	0.012	0.0025	0.0059	0.0017 (J)
1/19/2016				0.0029					
4/26/2016									
7/26/2016				<0.02					0.0028 (J)
7/27/2016	0.0529	<0.02	0.0015 (J)				0.0021 (J)		
7/28/2016								0.0019 (J)	
7/29/2016					0.003 (J)	0.0086 (J)			
10/24/2016									
10/25/2016	0.0035 (J)								
1/3/2017			<0.02						
1/4/2017		<0.02		<0.02			0.0025 (J)		
1/5/2017						0.016			0.0021 (J)
1/6/2017	0.0235				0.0104			0.0026 (J)	
4/3/2017									
4/4/2017		<0.02			0.0132				
4/5/2017						0.0175	0.0026 (J)		
4/6/2017	0.0829		0.0023 (J)	0.004 (J)				0.0047 (J)	0.0027 (J)
7/10/2017							0.0023 (J)		
7/11/2017				<0.02					
7/12/2017		<0.02	<0.02		0.0046 (J)			0.003 (J)	0.0043 (J)
7/13/2017	0.0853					0.0126			
10/2/2017									
10/3/2017									
10/4/2017	0.0263								
1/9/2018	0.0665								
1/10/2018		0.0014 (J)	0.0022 (J)						0.0021 (J)
1/11/2018				0.0018 (J)	0.0095 (J)	0.012	0.0031 (J)	0.0046 (J)	
7/9/2018									
7/10/2018		0.0021 (J)	<0.02						
7/11/2018	0.02 (J)			<0.02	0.0028 (J)	0.011	0.0036 (J)	0.0033 (J)	0.0039 (J)
1/16/2019	0.014 (J)	<0.02	<0.02		0.0052 (J)	0.0094 (J)			0.047

Prediction Limit

Constituent: Zinc (mg/L) Analysis Run 12/13/2024 1:28 PM View: Appendix I

Grumman Road Landfill Client: Southern Company Data: Grumman Road Landfill

	GWA-7 (bg)	GWC-1	GWB-5R	GWC-11	GWB-4R	GWC-17	GWC-12	GWC-9	GWC-13
1/17/2019				<0.02			0.0032 (J)		
1/18/2019								0.0025 (J)	
1/21/2019									
3/25/2019	<0.05 (O)				0.0078 (J)				
3/26/2019		<0.02	<0.02			0.0057 (J)			0.03
3/27/2019				<0.02			0.0031 (J)	0.0026 (J)	
7/30/2019									
10/7/2019									
10/8/2019	0.095			0.0061 (J)					0.053
10/9/2019		0.0057 (J)	0.0081 (J)		0.0064 (J)	0.011	0.0057 (J)	0.0054 (J)	
4/6/2020	<0.02								
4/7/2020		<0.02	<0.02	<0.02	<0.02		<0.02		
4/8/2020						<0.02		<0.02	0.023
9/28/2020	0.16	0.0092 (J)							0.016
9/29/2020				0.0031 (J)			0.0074 (J)		
9/30/2020			<0.02			0.0043 (J)			
10/1/2020					0.0064 (J)			0.025	
3/10/2021		<0.02	<0.02	<0.02	<0.02		<0.02	<0.02	
3/11/2021	0.054					0.0056 (J)			
3/12/2021									
3/15/2021									0.039
3/16/2021									
9/21/2021	<0.02		<0.02	<0.02	<0.02		<0.02		0.036
9/22/2021						<0.02		<0.02	
9/23/2021		<0.02							
1/31/2022	<0.02								
2/1/2022						0.011			
2/2/2022					<0.02			<0.02	
2/3/2022		<0.02	<0.02	<0.02			<0.02		0.037
8/30/2022	0.011 (J)		<0.02		<0.02		0.0262		
8/31/2022				<0.02		0.0068 (J)			0.0266
9/1/2022		0.00578 (J)						0.0163 (J)	
1/31/2023	0.00457 (J)								
2/1/2023			<0.02	<0.02		0.00583 (J)	0.00334 (J)	<0.02	0.025
2/2/2023		<0.02			<0.02				
8/28/2023	0.00851 (J)								
8/29/2023		<0.02	<0.02		<0.02	0.00535 (J)		<0.02	0.0194 (J)
9/6/2023				0.00479 (J)			<0.02		
9/7/2023									
1/23/2024	0.00392 (J)	<0.02							
1/24/2024				<0.02		0.00654 (J)		<0.02	
1/25/2024							<0.02		0.0195 (J)
2/7/2024					0.00455 (J)				
2/8/2024			<0.02						
8/19/2024	0.00727 (J)								
8/20/2024		0.00917 (J)			0.00972 (J)				
8/21/2024			<0.02	0.0392		0.0066 (J)	0.00744 (J)	0.0137 (J)	0.0168 (J)
8/22/2024									

Prediction Limit

Constituent: Zinc (mg/L) Analysis Run 12/13/2024 1:28 PM View: Appendix I

Grumman Road Landfill Client: Southern Company Data: Grumman Road Landfill

	GWC-14	GWA-8 (bg)	GWC-16	GWC-15	GWB-6R	GWC-2	GWC-22	GWC-20	GWC-21
9/29/2000	<0.02	<0.02	<0.02	<0.02	<0.02				
11/21/2000	<0.02		<0.02	<0.02	0.024	0.021			
1/20/2001	<0.02	0.025	<0.02	<0.02	<0.02	<0.02			
3/14/2001	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02			
7/16/2001	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02			
11/1/2001	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02			
4/25/2002	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02			
11/20/2002	<0.02	0.016	<0.02	<0.02	0.028	<0.02			
6/6/2003	<0.02	0.032	0.035	<0.02	0.032	<0.02			
12/12/2003	<0.02	0.019	<0.02	<0.02	<0.02	<0.02			
5/26/2004	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02			
12/7/2004	<0.02	<0.02	<0.02	<0.02	0.012	<0.02			
6/21/2005	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02			
12/12/2005	0.011	0.01	<0.02	0.064 (O)	<0.02	0.012			
4/4/2006	<0.02	<0.02	<0.02						
6/27/2006	0.0045	0.0043	0.077 (O)	0.011	0.0071	<0.02			
8/30/2006	<0.02	0.017	0.0027						
12/4/2006	<0.02	0.0053	<0.02	0.0033	0.0096	<0.02			
2/15/2007	<0.02	0.0045	0.0032						
6/23/2007	<0.02	0.0043	0.0058	0.0029	0.094 (O)	<0.02			
9/11/2007	<0.02	0.004	0.0033						
12/11/2007	<0.02	0.0048	<0.02	<0.02	0.042	<0.02			
3/11/2008	<0.02	0.0043	<0.02						
6/23/2008		0.0037							
6/24/2008	<0.02		<0.02	<0.02	0.098 (O)	<0.02			
11/3/2008	<0.02	0.0032	0.0025						
12/4/2008	<0.02	0.0029				<0.02			
12/5/2008			<0.02	<0.02	0.047				
3/25/2009	<0.02	0.0055	0.0025						
7/7/2009		0.0028			0.024				
7/8/2009	<0.02		<0.02	<0.02		<0.02			
9/14/2009	<0.02	0.0027	<0.02						
12/20/2009	<0.02	0.0029	<0.02	<0.02		<0.02			
12/21/2009					0.049				
3/4/2010	<0.02	0.0042	<0.02						
6/20/2010	<0.02	0.0027		<0.02	0.045	<0.02			
6/21/2010			<0.02				<0.02	<0.02	0.04
9/14/2010	<0.02	<0.02	<0.02						
1/6/2011						<0.02			
1/7/2011	<0.02	0.0032	<0.02	<0.02	0.0044		0.019	<0.02	<0.02
4/15/2011	<0.02	<0.02	<0.02						
7/7/2011	<0.02	0.005	<0.02	<0.02	0.003			<0.02	
7/8/2011							0.1 (O)	0.086 (J)	0.0044
9/25/2011	<0.02	0.0041	0.0028						
1/17/2012	<0.02	0.0043		<0.02		<0.02			
1/18/2012			0.0029		0.0048		0.0051	<0.02	<0.02
4/4/2012	<0.02	<0.02	<0.02						
7/9/2012	<0.02			<0.02		<0.02			
7/10/2012		0.0028	<0.02		<0.02		0.01	<0.02	<0.02
10/9/2012	<0.02	0.0033	0.0027						
1/17/2013						<0.02			
1/18/2013	<0.02	0.0038	<0.02	<0.02	0.0028		0.0036	0.0032	<0.02

ND substitution: RL or RL/2 if <15% NDs.

Prediction Limit

Constituent: Zinc (mg/L) Analysis Run 12/13/2024 1:28 PM View: Appendix I

Grumman Road Landfill Client: Southern Company Data: Grumman Road Landfill

	GWC-14	GWA-8 (bg)	GWC-16	GWC-15	GWB-6R	GWC-2	GWC-22	GWC-20	GWC-21
4/5/2013	<0.02	0.0026	<0.02						
7/16/2013									
7/17/2013	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	0.0025	<0.02	<0.02
10/11/2013	<0.02	0.0046	<0.02						
1/13/2014				0.0025		0.0025			
1/14/2014	0.0025	0.0025	0.0025		0.0025		0.0025	0.0025	0.0025
4/3/2014	0.0014 (J)	0.0029	0.0015 (J)						
7/8/2014									
7/9/2014	0.00086 (J)	0.002 (J)	0.0012 (J)	<0.02	0.00093 (J)	0.00058 (J)			0.00084 (J)
7/10/2014							0.024	<0.02	
10/24/2014	0.00083 (J)	0.0031	0.0013 (J)						
1/12/2015								<0.02	
1/13/2015				<0.02		0.0024 (J)			
1/14/2015	<0.02	0.003	0.0017 (J)		0.0023 (J)		0.0016 (J)		0.0018 (J)
5/10/2015	<0.02	0.0028							
5/11/2015			0.0015 (J)						
7/16/2015			<0.02	<0.02		<0.02			
7/17/2015	<0.02	0.0018 (J)			<0.02				<0.02
7/18/2015							0.014	<0.02	
10/6/2015	<0.02	0.0018 (J)	<0.02						
1/17/2016	<0.02		<0.02	<0.02		<0.02		<0.02	<0.02
1/18/2016		0.0028			0.0029		<0.02		
1/19/2016									
4/26/2016	<0.02	<0.02	<0.02						
7/26/2016									
7/27/2016	<0.02			<0.02		0.0018 (J)			
7/28/2016		0.0018 (J)	<0.02		<0.02			<0.02	<0.02
7/29/2016							0.0129		
10/24/2016		0.0024 (J)							
10/25/2016	<0.02		<0.02	<0.02				<0.02	
1/3/2017		0.0035 (J)							
1/4/2017			0.0025 (J)				0.006 (J)	<0.02	<0.02
1/5/2017	<0.02			<0.02	<0.02	<0.02			
1/6/2017									
4/3/2017		0.0041 (J)		<0.02					
4/4/2017	<0.02					0.0015 (J)		<0.02	0.0015 (J)
4/5/2017			0.0025 (J)						
4/6/2017					0.0032 (J)		0.0031 (J)		
7/10/2017									
7/11/2017	<0.02	0.0029 (J)		<0.02			0.0029 (J)	<0.02	
7/12/2017			0.002 (J)		0.002 (J)				
7/13/2017						0.0014 (J)			0.002 (J)
10/2/2017	0.0026 (J)	0.0026 (J)		<0.02				<0.02	
10/3/2017			<0.02						
10/4/2017									
1/9/2018	0.0018 (J)	0.0035 (J)		<0.02	0.0036 (J)				0.0016 (J)
1/10/2018			0.0016 (J)			<0.02		0.0034 (J)	
1/11/2018							0.0106		
7/9/2018	<0.02	0.0022 (J)						<0.02	
7/10/2018			0.0031 (J)	<0.02	0.0055 (J)	<0.02			<0.02
7/11/2018							0.0057 (J)		
1/16/2019	<0.02	0.0037 (J)			<0.02				

ND substitution: RL or RL/2 if <15% NDs.

Prediction Limit

Constituent: Zinc (mg/L) Analysis Run 12/13/2024 1:28 PM View: Appendix I

Grumman Road Landfill Client: Southern Company Data: Grumman Road Landfill

	GWC-14	GWA-8 (bg)	GWC-16	GWC-15	GWB-6R	GWC-2	GWC-22	GWC-20	GWC-21
1/17/2019			<0.02	<0.02					<0.02
1/18/2019							0.0024 (J)		
1/21/2019						<0.02		<0.02	
3/25/2019		<0.02						<0.02	
3/26/2019	<0.02		<0.02	<0.02	<0.02				<0.02
3/27/2019							<0.02		
7/30/2019						0.0067 (J)			
10/7/2019		0.0077 (J)							
10/8/2019	0.0052 (J)		0.01	0.0051 (J)					0.0071 (J)
10/9/2019					0.016 (J)	0.005 (J)	0.0079 (J)	0.0049 (J)	
4/6/2020		<0.02							
4/7/2020	<0.02		<0.02	<0.02	<0.02		<0.02		<0.02
4/8/2020						<0.02		<0.02	
9/28/2020		0.0092 (J)							
9/29/2020	<0.02					0.056			
9/30/2020			0.0051 (J)	0.032	<0.02		<0.02	0.031	0.0096 (J)
10/1/2020									
3/10/2021					<0.02		<0.02		
3/11/2021									
3/12/2021		0.0028 (J)		<0.02				<0.02	
3/15/2021						<0.02			
3/16/2021	<0.02		<0.02						<0.02
9/21/2021		<0.02			<0.02		<0.02		
9/22/2021	0.01		<0.02			<0.02		<0.02	<0.02
9/23/2021				<0.02					
1/31/2022		<0.02							
2/1/2022			<0.02					<0.02	<0.02
2/2/2022	<0.02				<0.02	<0.02			
2/3/2022				<0.02			<0.02		
8/30/2022	<0.02	<0.02			0.0132 (J)			0.0171 (J)	0.00814 (J)
8/31/2022				0.00395 (J)			<0.02		
9/1/2022			0.0119 (J)			0.0125 (J)			
1/31/2023		<0.02							
2/1/2023			<0.02		0.0121 (J)			<0.02	
2/2/2023	<0.02			<0.02		<0.02	<0.02		<0.02
8/28/2023		<0.02							
8/29/2023					0.0406	<0.02	0.0054 (J)		
9/6/2023	<0.02		<0.02					<0.02	<0.02
9/7/2023				<0.02					
1/23/2024		<0.02			0.0212		<0.02		
1/24/2024				<0.02				<0.02	
1/25/2024	<0.02		<0.02			<0.02			<0.02
2/7/2024									
2/8/2024									
8/19/2024									
8/20/2024					0.0355				
8/21/2024	<0.02	0.0123 (J)	<0.02	<0.02		<0.02	0.0141 (J)	<0.02	
8/22/2024									<0.02

ND substitution: RL or RL/2 if <15% NDs.

FIGURE E.

Appendix I - Trend Test Summary - Significant Results

Grumman Road Landfill Client: Southern Company Data: Grumman Road Landfill Printed 12/13/2024, 1:33 PM

Constituent	Well	Slope	Calc.	Critical	Sig.	N	%NDs	Normality	Alpha	Method
Arsenic (mg/L)	**GWA-7 (bg)**	**-0.0007447**	**-5.037**	**-2.58**	**Yes**	**57**	**52.63**	**n/a**	**0.01**	**NP**
Arsenic (mg/L)	**GWA-8 (bg)**	**0**	**-2.863**	**-2.58**	**Yes**	**78**	**91.03**	**n/a**	**0.01**	**NP**
Arsenic (mg/L)	**GWC-15**	**0.007445**	**8.685**	**2.58**	**Yes**	**58**	**43.1**	**n/a**	**0.01**	**NP**
Barium (mg/L)	**GWA-8 (bg)**	**-0.002734**	**-9.431**	**-2.58**	**Yes**	**77**	**0**	**n/a**	**0.01**	**NP**

Appendix I - Trend Test Summary - All Results

Grumman Road Landfill Client: Southern Company Data: Grumman Road Landfill Printed 12/13/2024, 1:33 PM

Constituent	Well	Slope	Calc.	Critical	Sig.	N	%NDs	Normality	Alpha	Method
Arsenic (mg/L)	**GWA-7 (bg)**	**-0.0007447**	**-5.037**	**-2.58**	**Yes**	**57**	**52.63**	**n/a**	**0.01**	**NP**
Arsenic (mg/L)	**GWA-8 (bg)**	**0**	**-2.863**	**-2.58**	**Yes**	**78**	**91.03**	**n/a**	**0.01**	**NP**
Arsenic (mg/L)	**GWC-15**	**0.007445**	**8.685**	**2.58**	**Yes**	**58**	**43.1**	**n/a**	**0.01**	**NP**
Arsenic (mg/L)	GWC-16	-0.0003815	-0.9241	-2.58	No	77	0	n/a	0.01	NP
Arsenic (mg/L)	GWC-20	0.01224	180	199	No	37	2.703	n/a	0.01	NP
Barium (mg/L)	GWA-7 (bg)	0.000747	1.005	2.58	No	56	0	n/a	0.01	NP
Barium (mg/L)	**GWA-8 (bg)**	**-0.002734**	**-9.431**	**-2.58**	**Yes**	**77**	**0**	**n/a**	**0.01**	**NP**
Barium (mg/L)	GWC-21	0.004041	75	191	No	36	0	n/a	0.01	NP

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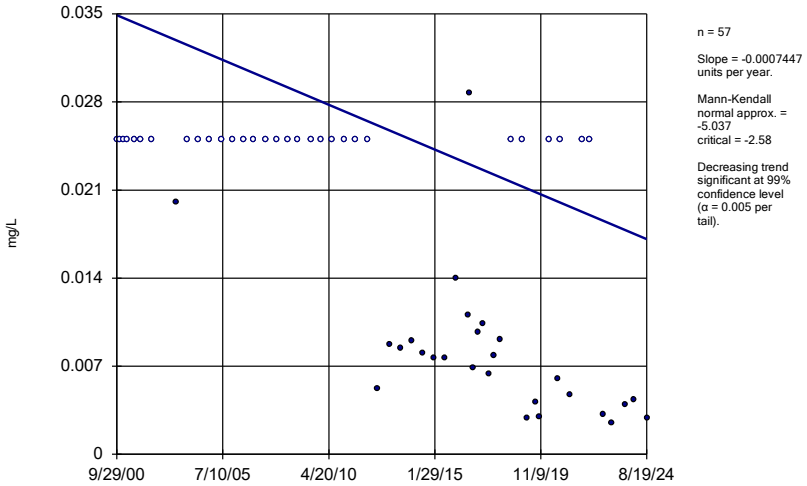
Hollow symbols indicate censored values.

Sen's Slope Estimator

GWA-7 (bg)



n = 57

Slope = -0.0007447 units per year.

Mann-Kendall normal approx. = -5.037
critical = -2.58

Decreasing trend significant at 99% confidence level (α = 0.005 per tail).

Constituent: Arsenic Analysis Run 12/13/2024 1:32 PM View: Appendix I - Trend Tests
Grumman Road Landfill Client: Southern Company Data: Grumman Road Landfill

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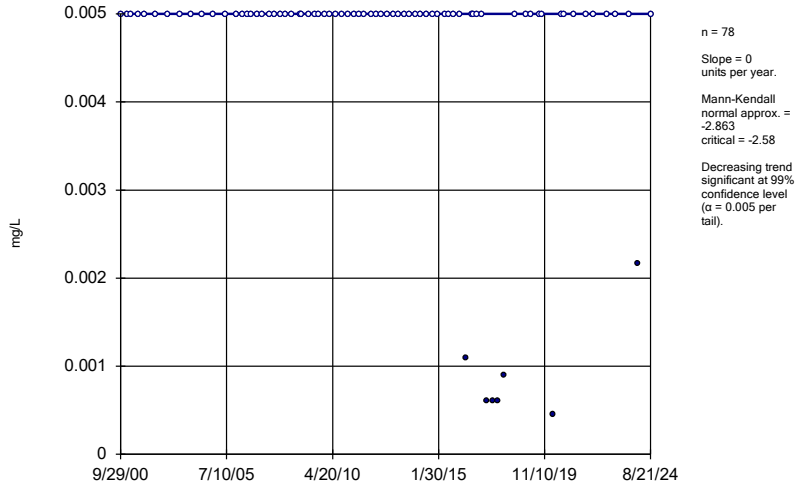
Hollow symbols indicate censored values.

Sen's Slope Estimator

GWA-8 (bg)



n = 78

Slope = 0 units per year.

Mann-Kendall normal approx. = -2.863
critical = -2.58

Decreasing trend significant at 99% confidence level (α = 0.005 per tail).

Constituent: Arsenic Analysis Run 12/13/2024 1:32 PM View: Appendix I - Trend Tests
Grumman Road Landfill Client: Southern Company Data: Grumman Road Landfill

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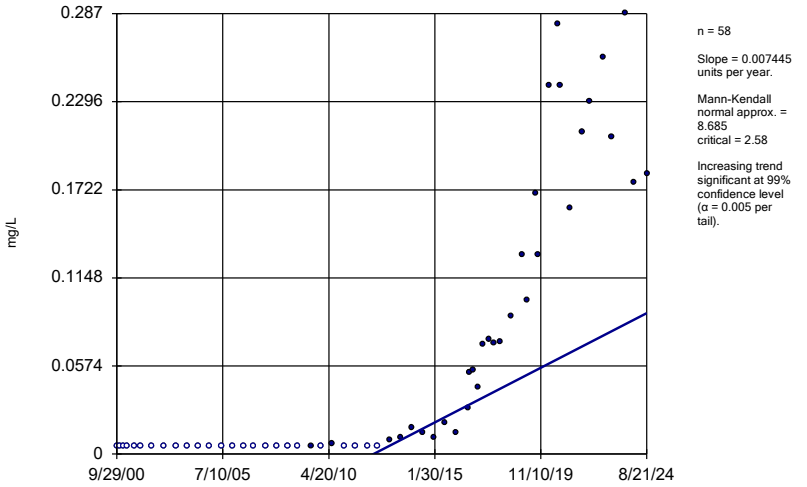
Hollow symbols indicate censored values.

Sen's Slope Estimator

GWC-15



n = 58

Slope = 0.007445 units per year.

Mann-Kendall normal approx. = 8.685
critical = 2.58

Increasing trend significant at 99% confidence level (α = 0.005 per tail).

Constituent: Arsenic Analysis Run 12/13/2024 1:32 PM View: Appendix I - Trend Tests
Grumman Road Landfill Client: Southern Company Data: Grumman Road Landfill

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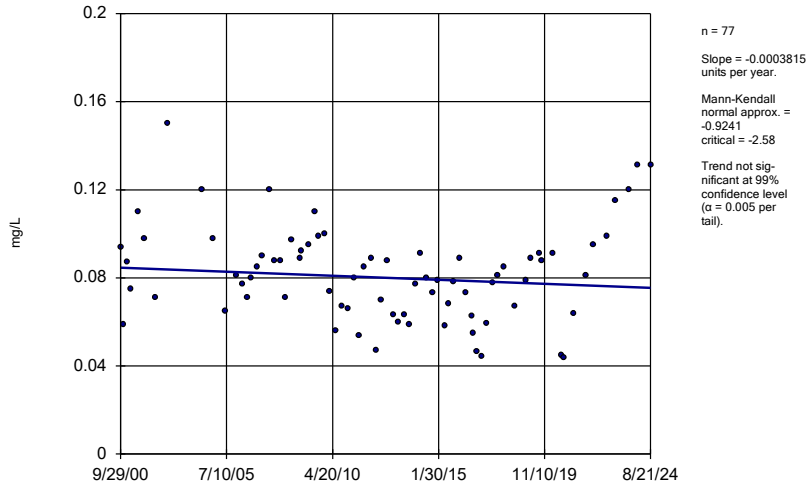
Sen's Slope Estimator

GWC-16



n = 77

Slope = -0.0003815 units per year.

Mann-Kendall normal approx. = -0.9241
critical = -2.58

Trend not significant at 99% confidence level (α = 0.005 per tail).

Constituent: Arsenic Analysis Run 12/13/2024 1:32 PM View: Appendix I - Trend Tests
Grumman Road Landfill Client: Southern Company Data: Grumman Road Landfill

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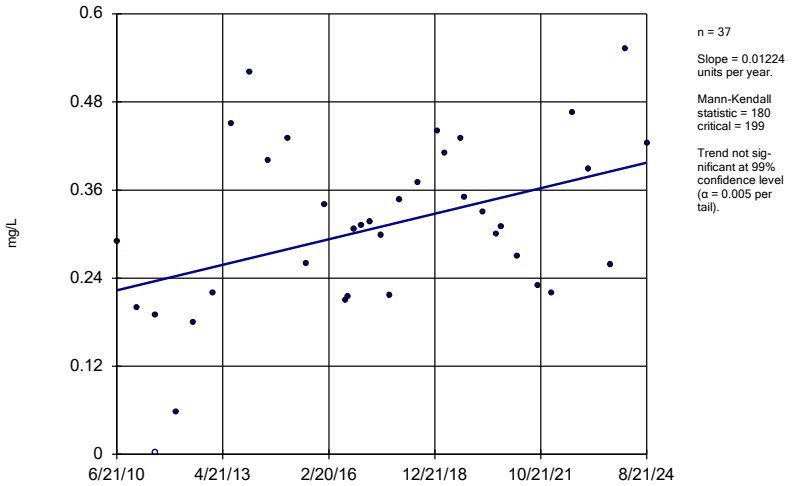
Hollow symbols indicate censored values.

Sen's Slope Estimator

GWC-20



n = 37

Slope = 0.01224 units per year.

Mann-Kendall statistic = 180
critical = 199

Trend not significant at 99% confidence level (α = 0.005 per tail).

Constituent: Arsenic Analysis Run 12/13/2024 1:32 PM View: Appendix I - Trend Tests
Grumman Road Landfill Client: Southern Company Data: Grumman Road Landfill

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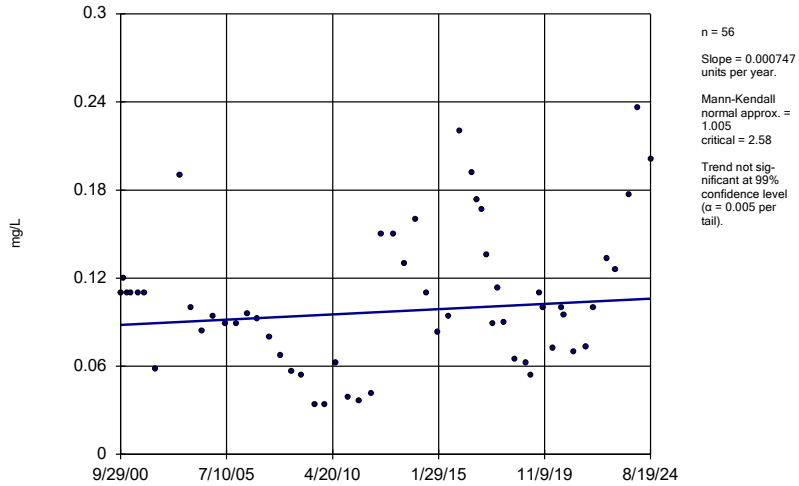
Sen's Slope Estimator

GWA-7 (bg)



n = 56

Slope = 0.000747 units per year.

Mann-Kendall normal approx. = 1.005
critical = 2.58

Trend not significant at 99% confidence level (α = 0.005 per tail).

Constituent: Barium Analysis Run 12/13/2024 1:32 PM View: Appendix I - Trend Tests
Grumman Road Landfill Client: Southern Company Data: Grumman Road Landfill

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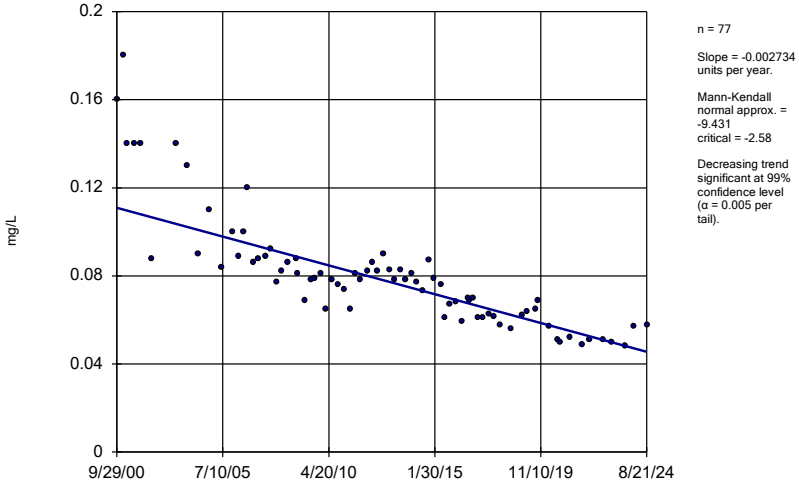
Sen's Slope Estimator

GWA-8 (bg)



n = 77

Slope = -0.002734 units per year.

Mann-Kendall normal approx. = -9.431
critical = -2.58

Decreasing trend significant at 99% confidence level (α = 0.005 per tail).

Constituent: Barium Analysis Run 12/13/2024 1:32 PM View: Appendix I - Trend Tests
Grumman Road Landfill Client: Southern Company Data: Grumman Road Landfill

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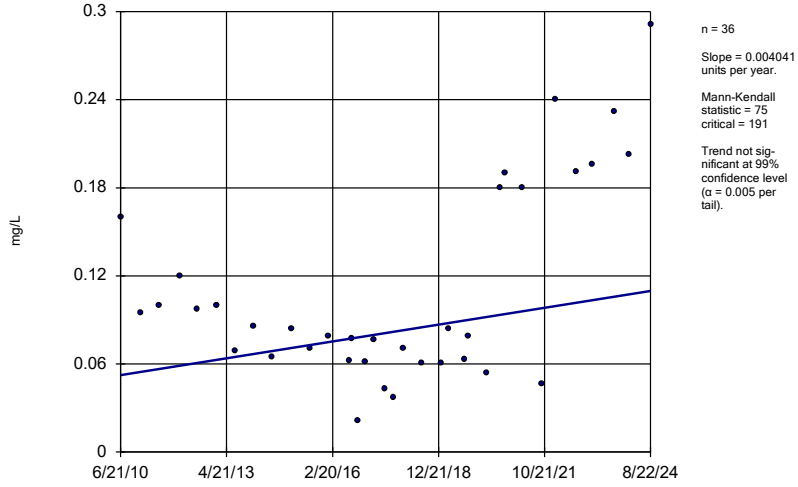
Sen's Slope Estimator

GWC-21



n = 36

Slope = 0.004041 units per year.

Mann-Kendall statistic = 75
critical = 191

Trend not significant at 99% confidence level (α = 0.005 per tail).

Constituent: Barium Analysis Run 12/13/2024 1:32 PM View: Appendix I - Trend Tests
Grumman Road Landfill Client: Southern Company Data: Grumman Road Landfill

FIGURE F.

Appendix III Interwell Prediction Limits - Significant Results

Grumman Road Landfill Client: Southern Company Data: Grumman Road Landfill Printed 12/13/2024, 1:37 PM

Constituent	Well	Upper Lim.	Lower Lim.	Date	Observ.	Sig.	Bg N	Bg Mean	Std. Dev.	%NDs	ND Adj.	Transform	Alpha	Method
Boron (mg/L)	GWC-16	21.8	n/a	8/21/2024	22.6	Yes	42	n/a	n/a	0	n/a	n/a	0.001006	NP Inter (normality) 1 of 2
Calcium (mg/L)	GWB-4R	35.8	n/a	8/20/2024	188	Yes	42	n/a	n/a	0	n/a	n/a	0.001006	NP Inter (normality) 1 of 2
Calcium (mg/L)	GWB-6R	35.8	n/a	8/20/2024	99.1	Yes	42	n/a	n/a	0	n/a	n/a	0.001006	NP Inter (normality) 1 of 2
Calcium (mg/L)	GWC-1	35.8	n/a	8/20/2024	37.8	Yes	42	n/a	n/a	0	n/a	n/a	0.001006	NP Inter (normality) 1 of 2
Calcium (mg/L)	GWC-11	35.8	n/a	8/21/2024	102	Yes	42	n/a	n/a	0	n/a	n/a	0.001006	NP Inter (normality) 1 of 2
Calcium (mg/L)	GWC-12	35.8	n/a	8/21/2024	79.6	Yes	42	n/a	n/a	0	n/a	n/a	0.001006	NP Inter (normality) 1 of 2
Calcium (mg/L)	GWC-14	35.8	n/a	8/21/2024	49.5	Yes	42	n/a	n/a	0	n/a	n/a	0.001006	NP Inter (normality) 1 of 2
Calcium (mg/L)	GWC-15	35.8	n/a	8/21/2024	135	Yes	42	n/a	n/a	0	n/a	n/a	0.001006	NP Inter (normality) 1 of 2
Calcium (mg/L)	GWC-16	35.8	n/a	8/21/2024	232	Yes	42	n/a	n/a	0	n/a	n/a	0.001006	NP Inter (normality) 1 of 2
Calcium (mg/L)	GWC-17	35.8	n/a	8/21/2024	78.9	Yes	42	n/a	n/a	0	n/a	n/a	0.001006	NP Inter (normality) 1 of 2
Calcium (mg/L)	GWC-20	35.8	n/a	8/21/2024	169	Yes	42	n/a	n/a	0	n/a	n/a	0.001006	NP Inter (normality) 1 of 2
Calcium (mg/L)	GWC-21	35.8	n/a	8/22/2024	85	Yes	42	n/a	n/a	0	n/a	n/a	0.001006	NP Inter (normality) 1 of 2
Chloride (mg/L)	GWC-17	260	n/a	8/21/2024	479	Yes	42	n/a	n/a	0	n/a	n/a	0.001006	NP Inter (normality) 1 of 2
Fluoride (mg/L)	GWC-17	0.49	n/a	8/21/2024	0.642	Yes	46	n/a	n/a	21.74	n/a	n/a	0.0008612	NP Inter (normality) 1 of 2
pH (SU)	GWC-12	6.43	4.23	8/21/2024	4.09	Yes	44	n/a	n/a	0	n/a	n/a	0.001867	NP Inter (normality) 1 of 2
pH (SU)	GWC-15	6.43	4.23	8/21/2024	6.69	Yes	44	n/a	n/a	0	n/a	n/a	0.001867	NP Inter (normality) 1 of 2
Sulfate (mg/L)	GWB-4R	160	n/a	8/20/2024	772	Yes	42	n/a	n/a	0	n/a	n/a	0.001006	NP Inter (normality) 1 of 2
Sulfate (mg/L)	GWB-5R	160	n/a	8/21/2024	289	Yes	42	n/a	n/a	0	n/a	n/a	0.001006	NP Inter (normality) 1 of 2
Sulfate (mg/L)	GWB-6R	160	n/a	8/20/2024	734	Yes	42	n/a	n/a	0	n/a	n/a	0.001006	NP Inter (normality) 1 of 2
Sulfate (mg/L)	GWC-11	160	n/a	8/21/2024	404	Yes	42	n/a	n/a	0	n/a	n/a	0.001006	NP Inter (normality) 1 of 2
Sulfate (mg/L)	GWC-12	160	n/a	8/21/2024	602	Yes	42	n/a	n/a	0	n/a	n/a	0.001006	NP Inter (normality) 1 of 2
Sulfate (mg/L)	GWC-16	160	n/a	8/21/2024	1370	Yes	42	n/a	n/a	0	n/a	n/a	0.001006	NP Inter (normality) 1 of 2
Sulfate (mg/L)	GWC-17	160	n/a	8/21/2024	453	Yes	42	n/a	n/a	0	n/a	n/a	0.001006	NP Inter (normality) 1 of 2
Sulfate (mg/L)	GWC-20	160	n/a	8/21/2024	688	Yes	42	n/a	n/a	0	n/a	n/a	0.001006	NP Inter (normality) 1 of 2
Sulfate (mg/L)	GWC-21	160	n/a	8/22/2024	291	Yes	42	n/a	n/a	0	n/a	n/a	0.001006	NP Inter (normality) 1 of 2

Appendix III Interwell Prediction Limits - All Results

Grumman Road Landfill Client: Southern Company Data: Grumman Road Landfill Printed 12/13/2024, 1:37 PM

Constituent	Well	Upper Lim.	Lower Lim.	Date	Observ.	Sig.	Bg N	Bg Mean	Std. Dev.	%NDs	ND Adj.	Transform	Alpha	Method
Boron (mg/L)	GWB-4R	21.8	n/a	8/20/2024	6.51	No	42	n/a	n/a	0	n/a	n/a	0.001006	NP Inter (normality) 1 of 2
Boron (mg/L)	GWB-5R	21.8	n/a	8/21/2024	5.38	No	42	n/a	n/a	0	n/a	n/a	0.001006	NP Inter (normality) 1 of 2
Boron (mg/L)	GWB-6R	21.8	n/a	8/20/2024	6.7	No	42	n/a	n/a	0	n/a	n/a	0.001006	NP Inter (normality) 1 of 2
Boron (mg/L)	GWC-1	21.8	n/a	8/20/2024	0.854	No	42	n/a	n/a	0	n/a	n/a	0.001006	NP Inter (normality) 1 of 2
Boron (mg/L)	GWC-11	21.8	n/a	8/21/2024	0.668	No	42	n/a	n/a	0	n/a	n/a	0.001006	NP Inter (normality) 1 of 2
Boron (mg/L)	GWC-12	21.8	n/a	8/21/2024	9.95	No	42	n/a	n/a	0	n/a	n/a	0.001006	NP Inter (normality) 1 of 2
Boron (mg/L)	GWC-13	21.8	n/a	8/21/2024	0.233	No	42	n/a	n/a	0	n/a	n/a	0.001006	NP Inter (normality) 1 of 2
Boron (mg/L)	GWC-14	21.8	n/a	8/21/2024	0.0675	No	42	n/a	n/a	0	n/a	n/a	0.001006	NP Inter (normality) 1 of 2
Boron (mg/L)	GWC-15	21.8	n/a	8/21/2024	0.785	No	42	n/a	n/a	0	n/a	n/a	0.001006	NP Inter (normality) 1 of 2
Boron (mg/L)	**GWC-16**	**21.8**	**n/a**	**8/21/2024**	**22.6**	**Yes**	**42**	**n/a**	**n/a**	**0**	**n/a**	**n/a**	**0.001006**	**NP Inter (normality) 1 of 2**
Boron (mg/L)	GWC-17	21.8	n/a	8/21/2024	1.66	No	42	n/a	n/a	0	n/a	n/a	0.001006	NP Inter (normality) 1 of 2
Boron (mg/L)	GWC-2	21.8	n/a	8/21/2024	0.023	No	42	n/a	n/a	0	n/a	n/a	0.001006	NP Inter (normality) 1 of 2
Boron (mg/L)	GWC-20	21.8	n/a	8/21/2024	10.1	No	42	n/a	n/a	0	n/a	n/a	0.001006	NP Inter (normality) 1 of 2
Boron (mg/L)	GWC-21	21.8	n/a	8/22/2024	2.98	No	42	n/a	n/a	0	n/a	n/a	0.001006	NP Inter (normality) 1 of 2
Boron (mg/L)	GWC-22	21.8	n/a	8/21/2024	0.179	No	42	n/a	n/a	0	n/a	n/a	0.001006	NP Inter (normality) 1 of 2
Boron (mg/L)	GWC-9	21.8	n/a	8/21/2024	0.0193	No	42	n/a	n/a	0	n/a	n/a	0.001006	NP Inter (normality) 1 of 2
Calcium (mg/L)	**GWB-4R**	**35.8**	**n/a**	**8/20/2024**	**188**	**Yes**	**42**	**n/a**	**n/a**	**0**	**n/a**	**n/a**	**0.001006**	**NP Inter (normality) 1 of 2**
Calcium (mg/L)	GWB-5R	35.8	n/a	8/21/2024	30	No	42	n/a	n/a	0	n/a	n/a	0.001006	NP Inter (normality) 1 of 2
Calcium (mg/L)	**GWB-6R**	**35.8**	**n/a**	**8/20/2024**	**99.1**	**Yes**	**42**	**n/a**	**n/a**	**0**	**n/a**	**n/a**	**0.001006**	**NP Inter (normality) 1 of 2**
Calcium (mg/L)	**GWC-1**	**35.8**	**n/a**	**8/20/2024**	**37.8**	**Yes**	**42**	**n/a**	**n/a**	**0**	**n/a**	**n/a**	**0.001006**	**NP Inter (normality) 1 of 2**
Calcium (mg/L)	**GWC-11**	**35.8**	**n/a**	**8/21/2024**	**102**	**Yes**	**42**	**n/a**	**n/a**	**0**	**n/a**	**n/a**	**0.001006**	**NP Inter (normality) 1 of 2**
Calcium (mg/L)	**GWC-12**	**35.8**	**n/a**	**8/21/2024**	**79.6**	**Yes**	**42**	**n/a**	**n/a**	**0**	**n/a**	**n/a**	**0.001006**	**NP Inter (normality) 1 of 2**
Calcium (mg/L)	GWC-13	35.8	n/a	8/21/2024	5.23	No	42	n/a	n/a	0	n/a	n/a	0.001006	NP Inter (normality) 1 of 2
Calcium (mg/L)	**GWC-14**	**35.8**	**n/a**	**8/21/2024**	**49.5**	**Yes**	**42**	**n/a**	**n/a**	**0**	**n/a**	**n/a**	**0.001006**	**NP Inter (normality) 1 of 2**
Calcium (mg/L)	**GWC-15**	**35.8**	**n/a**	**8/21/2024**	**135**	**Yes**	**42**	**n/a**	**n/a**	**0**	**n/a**	**n/a**	**0.001006**	**NP Inter (normality) 1 of 2**
Calcium (mg/L)	**GWC-16**	**35.8**	**n/a**	**8/21/2024**	**232**	**Yes**	**42**	**n/a**	**n/a**	**0**	**n/a**	**n/a**	**0.001006**	**NP Inter (normality) 1 of 2**
Calcium (mg/L)	**GWC-17**	**35.8**	**n/a**	**8/21/2024**	**78.9**	**Yes**	**42**	**n/a**	**n/a**	**0**	**n/a**	**n/a**	**0.001006**	**NP Inter (normality) 1 of 2**
Calcium (mg/L)	GWC-2	35.8	n/a	8/21/2024	0.156J	No	42	n/a	n/a	0	n/a	n/a	0.001006	NP Inter (normality) 1 of 2
Calcium (mg/L)	**GWC-20**	**35.8**	**n/a**	**8/21/2024**	**169**	**Yes**	**42**	**n/a**	**n/a**	**0**	**n/a**	**n/a**	**0.001006**	**NP Inter (normality) 1 of 2**
Calcium (mg/L)	**GWC-21**	**35.8**	**n/a**	**8/22/2024**	**85**	**Yes**	**42**	**n/a**	**n/a**	**0**	**n/a**	**n/a**	**0.001006**	**NP Inter (normality) 1 of 2**
Calcium (mg/L)	GWC-22	35.8	n/a	8/21/2024	13.3	No	42	n/a	n/a	0	n/a	n/a	0.001006	NP Inter (normality) 1 of 2
Calcium (mg/L)	GWC-9	35.8	n/a	8/21/2024	4.68	No	42	n/a	n/a	0	n/a	n/a	0.001006	NP Inter (normality) 1 of 2
Chloride (mg/L)	GWB-4R	260	n/a	8/20/2024	114	No	42	n/a	n/a	0	n/a	n/a	0.001006	NP Inter (normality) 1 of 2
Chloride (mg/L)	GWB-5R	260	n/a	8/21/2024	138	No	42	n/a	n/a	0	n/a	n/a	0.001006	NP Inter (normality) 1 of 2
Chloride (mg/L)	GWB-6R	260	n/a	8/20/2024	53	No	42	n/a	n/a	0	n/a	n/a	0.001006	NP Inter (normality) 1 of 2
Chloride (mg/L)	GWC-1	260	n/a	8/20/2024	8.85	No	42	n/a	n/a	0	n/a	n/a	0.001006	NP Inter (normality) 1 of 2
Chloride (mg/L)	GWC-11	260	n/a	8/21/2024	48.9	No	42	n/a	n/a	0	n/a	n/a	0.001006	NP Inter (normality) 1 of 2
Chloride (mg/L)	GWC-12	260	n/a	8/21/2024	117	No	42	n/a	n/a	0	n/a	n/a	0.001006	NP Inter (normality) 1 of 2
Chloride (mg/L)	GWC-13	260	n/a	8/21/2024	6.83	No	42	n/a	n/a	0	n/a	n/a	0.001006	NP Inter (normality) 1 of 2
Chloride (mg/L)	GWC-14	260	n/a	8/21/2024	24.3	No	42	n/a	n/a	0	n/a	n/a	0.001006	NP Inter (normality) 1 of 2
Chloride (mg/L)	GWC-15	260	n/a	8/21/2024	5.49	No	42	n/a	n/a	0	n/a	n/a	0.001006	NP Inter (normality) 1 of 2
Chloride (mg/L)	GWC-16	260	n/a	8/21/2024	34.8	No	42	n/a	n/a	0	n/a	n/a	0.001006	NP Inter (normality) 1 of 2
Chloride (mg/L)	**GWC-17**	**260**	**n/a**	**8/21/2024**	**479**	**Yes**	**42**	**n/a**	**n/a**	**0**	**n/a**	**n/a**	**0.001006**	**NP Inter (normality) 1 of 2**
Chloride (mg/L)	GWC-2	260	n/a	8/21/2024	5.61	No	42	n/a	n/a	0	n/a	n/a	0.001006	NP Inter (normality) 1 of 2
Chloride (mg/L)	GWC-20	260	n/a	8/21/2024	13.1	No	42	n/a	n/a	0	n/a	n/a	0.001006	NP Inter (normality) 1 of 2
Chloride (mg/L)	GWC-21	260	n/a	8/22/2024	15.8	No	42	n/a	n/a	0	n/a	n/a	0.001006	NP Inter (normality) 1 of 2
Chloride (mg/L)	GWC-22	260	n/a	8/21/2024	10.5	No	42	n/a	n/a	0	n/a	n/a	0.001006	NP Inter (normality) 1 of 2
Chloride (mg/L)	GWC-9	260	n/a	8/21/2024	24	No	42	n/a	n/a	0	n/a	n/a	0.001006	NP Inter (normality) 1 of 2
Fluoride (mg/L)	GWB-4R	0.49	n/a	8/20/2024	0.1ND	No	46	n/a	n/a	21.74	n/a	n/a	0.0008612	NP Inter (normality) 1 of 2
Fluoride (mg/L)	GWB-5R	0.49	n/a	8/21/2024	0.0435J	No	46	n/a	n/a	21.74	n/a	n/a	0.0008612	NP Inter (normality) 1 of 2
Fluoride (mg/L)	GWB-6R	0.49	n/a	8/20/2024	0.0768J	No	46	n/a	n/a	21.74	n/a	n/a	0.0008612	NP Inter (normality) 1 of 2
Fluoride (mg/L)	GWC-1	0.49	n/a	8/20/2024	0.1ND	No	46	n/a	n/a	21.74	n/a	n/a	0.0008612	NP Inter (normality) 1 of 2
Fluoride (mg/L)	GWC-11	0.49	n/a	8/21/2024	0.1ND	No	46	n/a	n/a	21.74	n/a	n/a	0.0008612	NP Inter (normality) 1 of 2
Fluoride (mg/L)	GWC-12	0.49	n/a	8/21/2024	0.194	No	46	n/a	n/a	21.74	n/a	n/a	0.0008612	NP Inter (normality) 1 of 2
Fluoride (mg/L)	GWC-13	0.49	n/a	8/21/2024	0.0496J	No	46	n/a	n/a	21.74	n/a	n/a	0.0008612	NP Inter (normality) 1 of 2
Fluoride (mg/L)	GWC-14	0.49	n/a	8/21/2024	0.1ND	No	46	n/a	n/a	21.74	n/a	n/a	0.0008612	NP Inter (normality) 1 of 2

Appendix III Interwell Prediction Limits - All Results

Grumman Road Landfill Client: Southern Company Data: Grumman Road Landfill Printed 12/13/2024, 1:37 PM

Constituent	Well	Upper Lim.	Lower Lim.	Date	Observ.	Sig.	Bg N	Bg Mean	Std. Dev.	%NDs	ND Adj.	Transform	Alpha	Method
Fluoride (mg/L)	GWC-15	0.49	n/a	8/21/2024	0.1ND	No	46	n/a	n/a	21.74	n/a	n/a	0.0008612	NP Inter (normality) 1 of 2
Fluoride (mg/L)	GWC-16	0.49	n/a	8/21/2024	0.1ND	No	46	n/a	n/a	21.74	n/a	n/a	0.0008612	NP Inter (normality) 1 of 2
Fluoride (mg/L)	**GWC-17**	**0.49**	**n/a**	**8/21/2024**	**0.642**	**Yes**	**46**	**n/a**	**n/a**	**21.74**	**n/a**	**n/a**	**0.0008612**	**NP Inter (normality) 1 of 2**
Fluoride (mg/L)	GWC-2	0.49	n/a	8/21/2024	0.0532J	No	46	n/a	n/a	21.74	n/a	n/a	0.0008612	NP Inter (normality) 1 of 2
Fluoride (mg/L)	GWC-20	0.49	n/a	8/21/2024	0.168	No	46	n/a	n/a	21.74	n/a	n/a	0.0008612	NP Inter (normality) 1 of 2
Fluoride (mg/L)	GWC-21	0.49	n/a	8/22/2024	0.1ND	No	46	n/a	n/a	21.74	n/a	n/a	0.0008612	NP Inter (normality) 1 of 2
Fluoride (mg/L)	GWC-22	0.49	n/a	8/21/2024	0.1ND	No	46	n/a	n/a	21.74	n/a	n/a	0.0008612	NP Inter (normality) 1 of 2
Fluoride (mg/L)	GWC-9	0.49	n/a	8/21/2024	0.134	No	46	n/a	n/a	21.74	n/a	n/a	0.0008612	NP Inter (normality) 1 of 2
pH (SU)	GWB-4R	6.43	4.23	8/20/2024	6.28	No	44	n/a	n/a	0	n/a	n/a	0.001867	NP Inter (normality) 1 of 2
pH (SU)	GWB-5R	6.43	4.23	8/21/2024	6	No	44	n/a	n/a	0	n/a	n/a	0.001867	NP Inter (normality) 1 of 2
pH (SU)	GWB-6R	6.43	4.23	8/20/2024	5.62	No	44	n/a	n/a	0	n/a	n/a	0.001867	NP Inter (normality) 1 of 2
pH (SU)	GWC-1	6.43	4.23	8/20/2024	5.83	No	44	n/a	n/a	0	n/a	n/a	0.001867	NP Inter (normality) 1 of 2
pH (SU)	GWC-11	6.43	4.23	8/21/2024	5.02	No	44	n/a	n/a	0	n/a	n/a	0.001867	NP Inter (normality) 1 of 2
pH (SU)	**GWC-12**	**6.43**	**4.23**	**8/21/2024**	**4.09**	**Yes**	**44**	**n/a**	**n/a**	**0**	**n/a**	**n/a**	**0.001867**	**NP Inter (normality) 1 of 2**
pH (SU)	GWC-13	6.43	4.23	8/21/2024	4.73	No	44	n/a	n/a	0	n/a	n/a	0.001867	NP Inter (normality) 1 of 2
pH (SU)	GWC-14	6.43	4.23	8/21/2024	5.75	No	44	n/a	n/a	0	n/a	n/a	0.001867	NP Inter (normality) 1 of 2
pH (SU)	**GWC-15**	**6.43**	**4.23**	**8/21/2024**	**6.69**	**Yes**	**44**	**n/a**	**n/a**	**0**	**n/a**	**n/a**	**0.001867**	**NP Inter (normality) 1 of 2**
pH (SU)	GWC-16	6.43	4.23	8/21/2024	5.53	No	44	n/a	n/a	0	n/a	n/a	0.001867	NP Inter (normality) 1 of 2
pH (SU)	GWC-17	6.43	4.23	8/21/2024	4.47	No	44	n/a	n/a	0	n/a	n/a	0.001867	NP Inter (normality) 1 of 2
pH (SU)	GWC-2	6.43	4.23	8/21/2024	4.76	No	44	n/a	n/a	0	n/a	n/a	0.001867	NP Inter (normality) 1 of 2
pH (SU)	GWC-20	6.43	4.23	8/21/2024	6.03	No	44	n/a	n/a	0	n/a	n/a	0.001867	NP Inter (normality) 1 of 2
pH (SU)	GWC-21	6.43	4.23	8/22/2024	5.54	No	44	n/a	n/a	0	n/a	n/a	0.001867	NP Inter (normality) 1 of 2
pH (SU)	GWC-22	6.43	4.23	8/21/2024	4.81	No	44	n/a	n/a	0	n/a	n/a	0.001867	NP Inter (normality) 1 of 2
pH (SU)	GWC-9	6.43	4.23	8/21/2024	4.64	No	44	n/a	n/a	0	n/a	n/a	0.001867	NP Inter (normality) 1 of 2
Sulfate (mg/L)	**GWB-4R**	**160**	**n/a**	**8/20/2024**	**772**	**Yes**	**42**	**n/a**	**n/a**	**0**	**n/a**	**n/a**	**0.001006**	**NP Inter (normality) 1 of 2**
Sulfate (mg/L)	**GWB-5R**	**160**	**n/a**	**8/21/2024**	**289**	**Yes**	**42**	**n/a**	**n/a**	**0**	**n/a**	**n/a**	**0.001006**	**NP Inter (normality) 1 of 2**
Sulfate (mg/L)	**GWB-6R**	**160**	**n/a**	**8/20/2024**	**734**	**Yes**	**42**	**n/a**	**n/a**	**0**	**n/a**	**n/a**	**0.001006**	**NP Inter (normality) 1 of 2**
Sulfate (mg/L)	GWC-1	160	n/a	8/20/2024	54	No	42	n/a	n/a	0	n/a	n/a	0.001006	NP Inter (normality) 1 of 2
Sulfate (mg/L)	**GWC-11**	**160**	**n/a**	**8/21/2024**	**404**	**Yes**	**42**	**n/a**	**n/a**	**0**	**n/a**	**n/a**	**0.001006**	**NP Inter (normality) 1 of 2**
Sulfate (mg/L)	**GWC-12**	**160**	**n/a**	**8/21/2024**	**602**	**Yes**	**42**	**n/a**	**n/a**	**0**	**n/a**	**n/a**	**0.001006**	**NP Inter (normality) 1 of 2**
Sulfate (mg/L)	GWC-13	160	n/a	8/21/2024	44.4	No	42	n/a	n/a	0	n/a	n/a	0.001006	NP Inter (normality) 1 of 2
Sulfate (mg/L)	GWC-14	160	n/a	8/21/2024	71.5	No	42	n/a	n/a	0	n/a	n/a	0.001006	NP Inter (normality) 1 of 2
Sulfate (mg/L)	GWC-15	160	n/a	8/21/2024	34.2	No	42	n/a	n/a	0	n/a	n/a	0.001006	NP Inter (normality) 1 of 2
Sulfate (mg/L)	**GWC-16**	**160**	**n/a**	**8/21/2024**	**1370**	**Yes**	**42**	**n/a**	**n/a**	**0**	**n/a**	**n/a**	**0.001006**	**NP Inter (normality) 1 of 2**
Sulfate (mg/L)	**GWC-17**	**160**	**n/a**	**8/21/2024**	**453**	**Yes**	**42**	**n/a**	**n/a**	**0**	**n/a**	**n/a**	**0.001006**	**NP Inter (normality) 1 of 2**
Sulfate (mg/L)	GWC-2	160	n/a	8/21/2024	11.6	No	42	n/a	n/a	0	n/a	n/a	0.001006	NP Inter (normality) 1 of 2
Sulfate (mg/L)	**GWC-20**	**160**	**n/a**	**8/21/2024**	**688**	**Yes**	**42**	**n/a**	**n/a**	**0**	**n/a**	**n/a**	**0.001006**	**NP Inter (normality) 1 of 2**
Sulfate (mg/L)	**GWC-21**	**160**	**n/a**	**8/22/2024**	**291**	**Yes**	**42**	**n/a**	**n/a**	**0**	**n/a**	**n/a**	**0.001006**	**NP Inter (normality) 1 of 2**
Sulfate (mg/L)	GWC-22	160	n/a	8/21/2024	41.8	No	42	n/a	n/a	0	n/a	n/a	0.001006	NP Inter (normality) 1 of 2
Sulfate (mg/L)	GWC-9	160	n/a	8/21/2024	24.1	No	42	n/a	n/a	0	n/a	n/a	0.001006	NP Inter (normality) 1 of 2
Total Dissolved Solids (mg/L)	GWB-4R	2640	n/a	8/20/2024	1970	No	37	n/a	n/a	0	n/a	n/a	0.001253	NP Inter (normality) 1 of 2
Total Dissolved Solids (mg/L)	GWB-5R	2640	n/a	8/21/2024	1160	No	37	n/a	n/a	0	n/a	n/a	0.001253	NP Inter (normality) 1 of 2
Total Dissolved Solids (mg/L)	GWB-6R	2640	n/a	8/20/2024	1190	No	37	n/a	n/a	0	n/a	n/a	0.001253	NP Inter (normality) 1 of 2
Total Dissolved Solids (mg/L)	GWC-1	2640	n/a	8/20/2024	217	No	37	n/a	n/a	0	n/a	n/a	0.001253	NP Inter (normality) 1 of 2
Total Dissolved Solids (mg/L)	GWC-11	2640	n/a	8/21/2024	510	No	37	n/a	n/a	0	n/a	n/a	0.001253	NP Inter (normality) 1 of 2
Total Dissolved Solids (mg/L)	GWC-12	2640	n/a	8/21/2024	817	No	37	n/a	n/a	0	n/a	n/a	0.001253	NP Inter (normality) 1 of 2
Total Dissolved Solids (mg/L)	GWC-13	2640	n/a	8/21/2024	77	No	37	n/a	n/a	0	n/a	n/a	0.001253	NP Inter (normality) 1 of 2
Total Dissolved Solids (mg/L)	GWC-14	2640	n/a	8/21/2024	239	No	37	n/a	n/a	0	n/a	n/a	0.001253	NP Inter (normality) 1 of 2
Total Dissolved Solids (mg/L)	GWC-15	2640	n/a	8/21/2024	464	No	37	n/a	n/a	0	n/a	n/a	0.001253	NP Inter (normality) 1 of 2
Total Dissolved Solids (mg/L)	GWC-16	2640	n/a	8/21/2024	2100	No	37	n/a	n/a	0	n/a	n/a	0.001253	NP Inter (normality) 1 of 2
Total Dissolved Solids (mg/L)	GWC-17	2640	n/a	8/21/2024	1120	No	37	n/a	n/a	0	n/a	n/a	0.001253	NP Inter (normality) 1 of 2
Total Dissolved Solids (mg/L)	GWC-2	2640	n/a	8/21/2024	25	No	37	n/a	n/a	0	n/a	n/a	0.001253	NP Inter (normality) 1 of 2
Total Dissolved Solids (mg/L)	GWC-20	2640	n/a	8/21/2024	1210	No	37	n/a	n/a	0	n/a	n/a	0.001253	NP Inter (normality) 1 of 2
Total Dissolved Solids (mg/L)	GWC-21	2640	n/a	8/22/2024	517	No	37	n/a	n/a	0	n/a	n/a	0.001253	NP Inter (normality) 1 of 2
Total Dissolved Solids (mg/L)	GWC-22	2640	n/a	8/21/2024	81	No	37	n/a	n/a	0	n/a	n/a	0.001253	NP Inter (normality) 1 of 2
Total Dissolved Solids (mg/L)	GWC-9	2640	n/a	8/21/2024	90	No	37	n/a	n/a	0	n/a	n/a	0.001253	NP Inter (normality) 1 of 2

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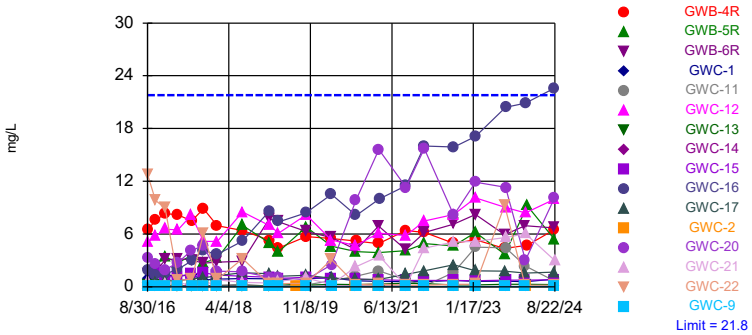
Exceeds Limit: GWC-16

Prediction Limit

Interwell 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 42 background values. Annual per-constituent alpha = 0.0317. Individual comparison alpha = 0.001006 (1 of 2). Comparing 16 points to limit.

Constituent: Boron Analysis Run 12/13/2024 1:34 PM View: Appendix III

Grumman Road Landfill Client: Southern Company Data: Grumman Road Landfill

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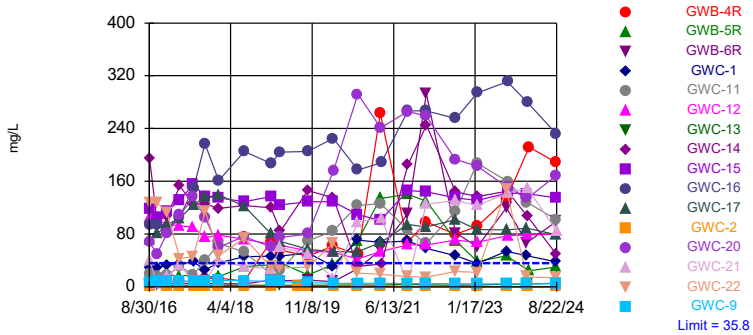
Exceeds Limit: GWB-4R, GWB-6R, GWC-1, GWC-11, GWC-12, GWC-14, GWC-15, GWC-16, GWC-17, GWC-20, GWC-21

Prediction Limit

Interwell 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 42 background values. Annual per-constituent alpha = 0.0317. Individual comparison alpha = 0.001006 (1 of 2). Comparing 16 points to limit.

Constituent: Calcium Analysis Run 12/13/2024 1:34 PM View: Appendix III

Grumman Road Landfill Client: Southern Company Data: Grumman Road Landfill

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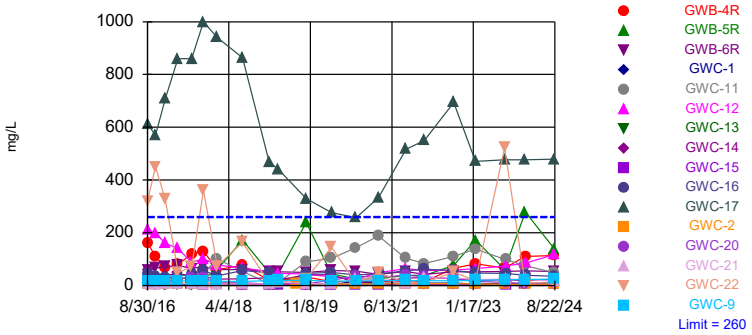
Exceeds Limit: GWC-17

Prediction Limit

Interwell 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 42 background values. Annual per-constituent alpha = 0.0317. Individual comparison alpha = 0.001006 (1 of 2). Comparing 16 points to limit.

Constituent: Chloride Analysis Run 12/13/2024 1:34 PM View: Appendix III

Grumman Road Landfill Client: Southern Company Data: Grumman Road Landfill

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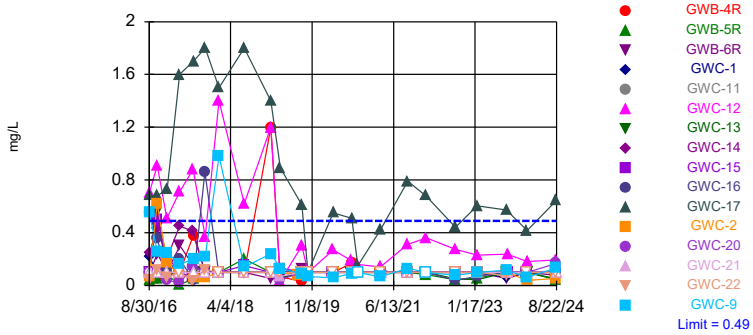
Hollow symbols indicate censored values.

Exceeds Limit: GWC-17

Prediction Limit

Interwell 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 46 background values. 21.74% NDs. Annual per-constituent alpha = 0.02719. Individual comparison alpha = 0.0008612 (1 of 2). Comparing 16 points to limit.

Constituent: Fluoride Analysis Run 12/13/2024 1:34 PM View: Appendix III

Grumman Road Landfill Client: Southern Company Data: Grumman Road Landfill

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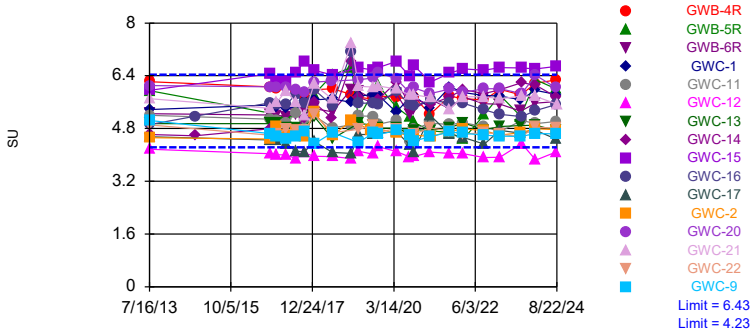
Exceeds Limits: GWC-12, GWC-15

Prediction Limit

Interwell 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 44 background values. Annual per-constituent alpha = 0.05889. Individual comparison alpha = 0.001867 (1 of 2). Comparing 16 points to limit.

Constituent: pH Analysis Run 12/13/2024 1:34 PM View: Appendix III

Grumman Road Landfill Client: Southern Company Data: Grumman Road Landfill

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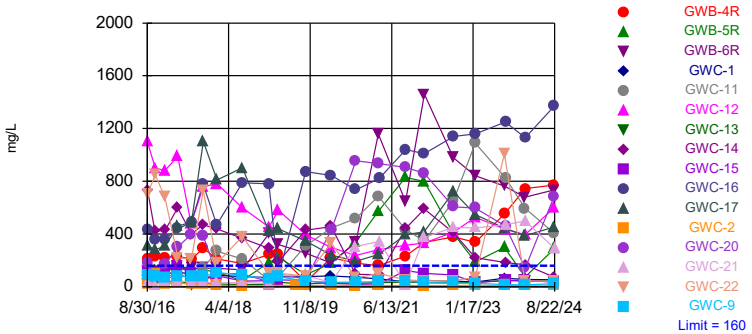
Exceeds Limit: GWB-4R, GWB-5R, GWB-6R, GWC-11, GWC-12, GWC-16, GWC-17, GWC-20, GWC-21

Prediction Limit

Interwell 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 42 background values. Annual per-constituent alpha = 0.0317. Individual comparison alpha = 0.001006 (1 of 2). Comparing 16 points to limit.

Constituent: Sulfate Analysis Run 12/13/2024 1:34 PM View: Appendix III

Grumman Road Landfill Client: Southern Company Data: Grumman Road Landfill

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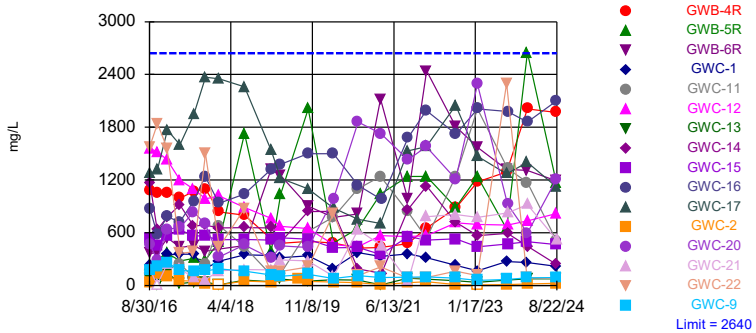
Hollow symbols indicate censored values.

Within Limit

Prediction Limit

Interwell 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 37 background values. Annual per-constituent alpha = 0.03932. Individual comparison alpha = 0.001253 (1 of 2). Comparing 16 points to limit.

Constituent: Total Dissolved Solids Analysis Run 12/13/2024 1:34 PM View: Appendix III

Grumman Road Landfill Client: Southern Company Data: Grumman Road Landfill

Prediction Limit

Constituent: Boron (mg/L) Analysis Run 12/13/2024 1:37 PM View: Appendix III

Grumman Road Landfill Client: Southern Company Data: Grumman Road Landfill

	GWC-1	GWB-6R	GWB-5R	GWA-8 (bg)	GWC-11	GWC-12	GWC-13	GWC-2	GWC-9
8/30/2016	0.875	1.41	1.09	0.117					
8/31/2016					0.0688 (J)	5.1	0.261	0.0196 (J)	0.096 (J)
9/1/2016									
10/24/2016				0.126					
10/25/2016	1.22								
10/26/2016		1.83	2.5		0.083 (J)	5.74	0.211	0.05 (J)	
10/27/2016									0.0281 (J)
1/3/2017			3.39	0.124					
1/4/2017	1.3				0.0738	6.56			
1/5/2017		3.07					0.179	0.0162 (J)	
1/6/2017									0.0189 (J)
4/3/2017				0.105					
4/4/2017	1.19							0.019 (J)	
4/5/2017						6.49			
4/6/2017		3.19	2.76		0.0754		0.112		0.0181 (J)
7/10/2017						8.13			
7/11/2017				0.136	0.0614				
7/12/2017	1.37	3.06	3.55				0.0882		0.0211 (J)
7/13/2017								0.023 (J)	
10/2/2017				0.107					
10/3/2017	0.765	2.69	2.72		0.0838			0.0266 (J)	
10/4/2017						5.18	0.116		0.0254 (J)
1/9/2018		2.81		0.123					
1/10/2018	0.876		3.21				0.101	0.0203 (J)	
1/11/2018					0.169	5.16			0.018 (J)
7/9/2018				0.11					
7/10/2018	0.94	2.9	7					0.026 (J)	
7/11/2018					0.3	8.5	0.098		0.02 (J)
1/16/2019	0.91	7.7	5	0.13			0.11		
1/17/2019					0.065	7			
1/18/2019									0.018 (J)
1/21/2019								0.018 (J)	
3/25/2019				0.098					
3/26/2019	0.77	7.4	4				0.35		
3/27/2019					0.089	6.1			0.016 (J)
7/30/2019								0.02 (J)	
10/7/2019				0.12					
10/8/2019					0.22		0.18		
10/9/2019	0.93	6.3	6.8			8.2		0.024 (J)	0.019 (J)
4/6/2020				0.14					
4/7/2020	1	5.6	4.6		0.67	5.3			
4/8/2020							0.28	0.031 (J)	0.023 (J)
9/28/2020	0.69			0.15			0.24		
9/29/2020					1.2	4.7		0.024 (J)	
9/30/2020		4.2	4						
10/1/2020									0.028 (J)
3/10/2021	0.63	6.9	3.9		1.8	6.1			0.022 (J)
3/11/2021									
3/12/2021				0.11					
3/15/2021							0.31	0.084	
3/16/2021									
9/21/2021		4.2	4.1	0.13	0.8	5.8	0.38		

Prediction Limit

Constituent: Boron (mg/L) Analysis Run 12/13/2024 1:37 PM View: Appendix III

Grumman Road Landfill Client: Southern Company Data: Grumman Road Landfill

	GWC-1	GWB-6R	GWB-5R	GWA-8 (bg)	GWC-11	GWC-12	GWC-13	GWC-2	GWC-9
9/22/2021								0.017 (J)	0.015 (J)
9/23/2021	0.59								
1/31/2022				0.13					
2/1/2022									
2/2/2022		6.2						0.023 (J)	0.011 (J)
2/3/2022	0.59		4.9		0.1	7.5	0.37		
8/30/2022		7.13	4.66	0.152		8.21			
8/31/2022					1.65		0.231		
9/1/2022	0.728							0.0204	0.0187
1/31/2023				0.177					
2/1/2023		8.23	6.19		4.49	10.1	0.208		0.0186
2/2/2023	0.599							0.022	
8/28/2023				0.194					
8/29/2023	0.653	5.92	3.69				0.296	0.0163	0.016
9/6/2023					4.44	9.02			
9/7/2023									
1/23/2024	0.568	6.94		0.195					
1/24/2024					2.36				0.0175
1/25/2024						8.4	0.275	0.0199	
2/7/2024									
2/8/2024			9.21						
8/19/2024									
8/20/2024	0.854	6.7							
8/21/2024			5.38	0.23	0.668	9.95	0.233	0.023	0.0193
8/22/2024									

Prediction Limit

Constituent: Boron (mg/L) Analysis Run 12/13/2024 1:37 PM View: Appendix III

Grumman Road Landfill Client: Southern Company Data: Grumman Road Landfill

	GWC-22	GWC-14	GWC-16	GWC-17	GWB-4R	GWC-20	GWC-21	GWA-7 (bg)	GWC-15
8/30/2016									
8/31/2016	12.8								
9/1/2016		0.071 (J)	1.82	0.408	6.48	3.34	0.62	11.6	9.01 (O)
10/24/2016									
10/25/2016		0.0819 (J)	1.26			2.54	0.0658 (J)	21.4	1.66
10/26/2016	9.81			0.5	7.57				
10/27/2016									
1/3/2017									
1/4/2017	8.94		1.46			1.91	0.36		
1/5/2017		0.0813		0.676					1.1
1/6/2017					8.34			20.1	
4/3/2017									1.21
4/4/2017		0.0723			8.18	2.77	0.509		
4/5/2017			2	0.69					
4/6/2017	0.733							21.8	
7/10/2017									
7/11/2017	0.852	0.0734				4.14			1.44
7/12/2017			2.95		7.51				
7/13/2017				0.888			0.126	16.3	
10/2/2017		0.0748				4.65			1.59
10/3/2017			4.15				0.1		
10/4/2017	6.05			1.02	8.88			21.5	
1/9/2018		0.0679					0.783	13.9	1.35
1/10/2018			3.68			1.79			
1/11/2018	0.838			1.28	6.95				
7/9/2018		0.061				1.7			
7/10/2018			5.2				0.5		1.2
7/11/2018	3.2			1.6	6.4			11.7	
1/16/2019		0.046		1.5	5.3			9.3	
1/17/2019			8.6				0.43		1.1
1/18/2019	0.37								
1/21/2019						1.1			
3/25/2019					4.4	1		8.5	
3/26/2019		0.037 (J)	7.4	1.2			0.61		0.95
3/27/2019	0.37								
7/30/2019									
10/7/2019									
10/8/2019		0.048	8.4				1	6.4	1.1
10/9/2019	0.39			1.3	5.7	0.79			
4/6/2020								6.1	
4/7/2020	3.1	0.061 (J)	10.5		5.5		0.24		0.96
4/8/2020				0.99		2.5			
9/28/2020								4.6	
9/29/2020		0.053							
9/30/2020	0.25		8.1	0.86		9.9	2.3		0.86
10/1/2020					5.2				
3/10/2021	0.32				4.9				
3/11/2021				0.85				8	
3/12/2021						15.6			0.81
3/15/2021									
3/16/2021		0.08	10				3.5		
9/21/2021	0.19				6.4			4.4	

Prediction Limit

Constituent: Boron (mg/L) Analysis Run 12/13/2024 1:37 PM View: Appendix III

Grumman Road Landfill Client: Southern Company Data: Grumman Road Landfill

	GWC-22	GWC-14	GWC-16	GWC-17	GWB-4R	GWC-20	GWC-21	GWA-7 (bg)	GWC-15
9/22/2021		0.052	11.5	1.4		11.3	0.095		
9/23/2021									0.72
1/31/2022								3.9	
2/1/2022			16	1.8		15.7	4.4		
2/2/2022		0.044			6.2				
2/3/2022	0.18								0.71
8/30/2022		0.046			4.95	8.14	5.08	5.72	
8/31/2022	0.271			2.51					0.719
9/1/2022			15.9						
1/31/2023								5.72	
2/1/2023			17.1	1.83		11.9			
2/2/2023	0.302	0.0451			5.35		5.15		0.679
8/28/2023								7.01	
8/29/2023	9.28			1.77	4.35				
9/6/2023		0.0433	20.4			11.3	5.6		
9/7/2023									0.747
1/23/2024	0.173							10.4	
1/24/2024				1.57		3			0.743
1/25/2024		0.0439	20.9				6.05		
2/7/2024					4.72				
2/8/2024									
8/19/2024								10.5	
8/20/2024					6.51				
8/21/2024	0.179	0.0675	22.6	1.66		10.1			0.785
8/22/2024							2.98		

Prediction Limit

Constituent: Calcium (mg/L) Analysis Run 12/13/2024 1:37 PM View: Appendix III

Grumman Road Landfill Client: Southern Company Data: Grumman Road Landfill

	GWB-5R	GWC-1	GWA-8 (bg)	GWB-6R	GWC-9	GWC-2	GWC-11	GWC-13	GWC-12
8/30/2016	14.3	29.4	23.8	4.68					
8/31/2016					6.9	0.371 (J)	18.8	2.77	105
9/1/2016									
10/24/2016			22.5						
10/25/2016		28.3							
10/26/2016	18.6			5.45		5.84	16.6	2.25	101
10/27/2016					8.2				
1/3/2017	18.1		22.1						
1/4/2017		33.4					17.6		94.9
1/5/2017				5.35		0.379 (J)		2.27	
1/6/2017					7.97				
4/3/2017			24.6 (J)						
4/4/2017		34.6				0.993			
4/5/2017									92.5
4/6/2017	16.2			5.41	7.95		30.9	2.04	
7/10/2017									90.3
7/11/2017			23.5				17.7		
7/12/2017	18.1	38		4.81	8.37			2.25	
7/13/2017						0.388 (J)			
10/2/2017			22.7						
10/3/2017	15.2	25.5		5.17		0.251 (J)	39.8		
10/4/2017					8.57			2.19	74.6
1/9/2018			23.2	4.73					
1/10/2018	15.5	36.5				0.177 (J)		2.28	
1/11/2018					9.78		65.6		78.1
7/9/2018			24.6 (J)						
7/10/2018	30.6	45.5		4.5		0.17 (J)			
7/11/2018					9.2		53	2.3	72.2
1/16/2019	33.3	46.5	27.7	10.1				2.3	
1/17/2019							19.8 (J)		64.7
1/18/2019					8.1				
1/21/2019						0.19 (J)			
3/25/2019			31.7						
3/26/2019	36.1	46.3		9				2.4	
3/27/2019					7.7		25.1		63.1
7/30/2019						0.43			
10/7/2019			31.6						
10/8/2019							69.2	2.3	
10/9/2019	17.7	51.2		10.1	6	0.18			54.2
4/6/2020			35.8						
4/7/2020	34.1	31.1		7.8			84.7		52.1
4/8/2020					5.3	0.24 (J)		2.5	
9/28/2020		70.7	25.6					2.9	
9/29/2020						0.18 (J)	123		42
9/30/2020	70.4			27.5					
10/1/2020					5.5				
3/10/2021	134	67.2		55.9	5.3		126		53.1
3/11/2021									
3/12/2021			21.4						
3/15/2021						0.22 (J)		2.4	
3/16/2021									
9/21/2021	140		18.5	110			87	3.6	63.4

Prediction Limit

Constituent: Calcium (mg/L) Analysis Run 12/13/2024 1:37 PM View: Appendix III

Grumman Road Landfill Client: Southern Company Data: Grumman Road Landfill

	GWB-5R	GWC-1	GWA-8 (bg)	GWB-6R	GWC-9	GWC-2	GWC-11	GWC-13	GWC-12
9/22/2021					5	0.19 (J)			
9/23/2021		69.1							
1/31/2022			17.2						
2/1/2022									
2/2/2022				293	4.6	0.16 (J)			
2/3/2022	130	58.2					65.4	2.7	63.7
8/30/2022	70.3		15	81.8					70.8
8/31/2022							115	2.54	
9/1/2022		46.9			5	0.236			
1/31/2023			14.8						
2/1/2023	38.3			60.4	4.44		187	2.89	67.5
2/2/2023		35.2				0.143 (J)			
8/28/2023			13.6						
8/29/2023	46.8	53.9		120	4.38	0.165 (J)		3.64	
9/6/2023							160		77.4
9/7/2023									
1/23/2024		47.2	16.6	66.8					
1/24/2024					4.4		128		
1/25/2024						0.17 (J)		4.19	78.5
2/7/2024									
2/8/2024	24.2								
8/19/2024									
8/20/2024		37.8		99.1					
8/21/2024	30		18.6		4.68	0.156 (J)	102	5.23	79.6
8/22/2024									

Prediction Limit

Constituent: Calcium (mg/L) Analysis Run 12/13/2024 1:37 PM View: Appendix III

Grumman Road Landfill Client: Southern Company Data: Grumman Road Landfill

	GWC-22	GWC-16	GWC-14	GWC-17	GWB-4R	GWC-20	GWC-21	GWC-15	GWA-7 (bg)
8/30/2016									
8/31/2016	127								
9/1/2016		93.8	194	71.9	9.91	67.2	40.5	119	5.59
10/24/2016									
10/25/2016		94.1	100			50.1	3.91	106	6.43
10/26/2016	127			80.3	8.56				
10/27/2016									
1/3/2017									
1/4/2017	113	88.2				80.4	15.2		
1/5/2017			107	94.4				115	
1/6/2017					8.18				8.13
4/3/2017								131	
4/4/2017			153		8.12	108	32.3		
4/5/2017		106		104					
4/6/2017	42.7								7.72
7/10/2017									
7/11/2017	46		125			136		155	
7/12/2017		149			8				
7/13/2017				124			8.92		4.57
10/2/2017			126			105		137	
10/3/2017		217					7.88		
10/4/2017	115			136	12.5				6.41
1/9/2018			119				40.5	135	4.68
1/10/2018		161				60.1			
1/11/2018	47.6			139	12.9				
7/9/2018			123			75.9			
7/10/2018		205					29.8	129	
7/11/2018	73.7			122	8.6				3.9
1/16/2019			120	80.5	68.8				4.3
1/17/2019		187					27.6	137	
1/18/2019	30.6								
1/21/2019						60			
3/25/2019					55.6	74.8			3.9
3/26/2019		204	84.2	68.8			60.1	124	
3/27/2019	28.8								
7/30/2019									
10/7/2019									
10/8/2019		205	146				49.5	129	3.5
10/9/2019	30.1			56.6	46.7	80.1			
4/6/2020									3.1
4/7/2020	65.7	225	135		62.1		12.5	129	
4/8/2020				53.1		175			
9/28/2020									3.3
9/29/2020			30.8						
9/30/2020	20.9	177		53.5		292	98.4	109	
10/1/2020					48.4				
3/10/2021	18.7				263				
3/11/2021				67					2.4
3/12/2021						241		101	
3/15/2021									
3/16/2021		188	34.4				104		
9/21/2021	15.3				67.5				2.7

Prediction Limit

Constituent: Calcium (mg/L) Analysis Run 12/13/2024 1:37 PM View: Appendix III
Grumman Road Landfill Client: Southern Company Data: Grumman Road Landfill

	GWC-22	GWC-16	GWC-14	GWC-17	GWB-4R	GWC-20	GWC-21	GWC-15	GWA-7 (bg)
9/22/2021		267	185	94.6		266	5.8		
9/23/2021								146	
1/31/2022									3.4
2/1/2022		267		90.8		259	125		
2/2/2022			245		98.2				
2/3/2022	14.6							144	
8/30/2022			144		79.3	193	131		3.56
8/31/2022	23.2			102				135	
9/1/2022		255							
1/31/2023									3.33
2/1/2023		294		86.8		183			
2/2/2023	21.6		137		91.8		123	131	
8/28/2023									3.72
8/29/2023	147			86.5	133				
9/6/2023		311	145			151	142		
9/7/2023								142	
1/23/2024	15.1								3.56
1/24/2024				88.7		134		141	
1/25/2024		280	107				150		
2/7/2024					212				
2/8/2024									
8/19/2024									3.36
8/20/2024					188				
8/21/2024	13.3	232	49.5	78.9		169		135	
8/22/2024							85		

Prediction Limit

Constituent: Chloride (mg/L) Analysis Run 12/13/2024 1:37 PM View: Appendix III

Grumman Road Landfill Client: Southern Company Data: Grumman Road Landfill

	GWB-5R	GWC-1	GWA-8 (bg)	GWB-6R	GWC-9	GWC-2	GWC-11	GWC-13	GWC-12
8/30/2016	31	5.5	15	60					
8/31/2016					17	7.8	3.5	4.3	210
9/1/2016									
10/24/2016			13						
10/25/2016		5.1							
10/26/2016	24			67		12	2.5	4.9	200
10/27/2016					17				
1/3/2017	29		13						
1/4/2017		6.9					3.8		160
1/5/2017				70		7.4		4.1	
1/6/2017					16				
4/3/2017			14						
4/4/2017		6.5				8.7			
4/5/2017									140
4/6/2017	27			76	17		7.1	3.7	
7/10/2017									88
7/11/2017			13				3.1		
7/12/2017	31	6.5		64	18			2.6	
7/13/2017						8.3			
10/2/2017			15						
10/3/2017	27	4.5		73		9	46		
10/4/2017					18			3	100
1/9/2018			13	61					
1/10/2018	59	6.9				8.2		3.4	
1/11/2018					16		100		78
7/9/2018			15.4						
7/10/2018	172	6.2		60.2		7.3			
7/11/2018					16.2		53.7	3.2	66.9
1/16/2019	49.7	6.6	16	54.1				3.8	
1/17/2019							6.6		52
1/18/2019					17.5				
1/21/2019						6.9			
3/25/2019			17.7						
3/26/2019	47.9	7		51.8				3.2	
3/27/2019					18.9		11.9		45.6
7/30/2019						7.1			
10/7/2019			18						
10/8/2019							89	4	
10/9/2019	239	7.2		49.7	19	7			44.1
4/6/2020			13.5						
4/7/2020	44.3	7.7		56.4			103		32.5
4/8/2020					16.9	5.2		4.5	
9/28/2020		13.8	13.7					4.3	
9/29/2020						5.4	143		24.3
9/30/2020	24.1			53.9					
10/1/2020					16.8				
3/10/2021	25.7	8.5		42.4	18.3		188		48.7
3/11/2021									
3/12/2021			14.1						
3/15/2021						6.4		7.6	
3/16/2021									
9/21/2021	38.8		12.2	53.8			103	7.9	63.8

Prediction Limit

Constituent: Chloride (mg/L) Analysis Run 12/13/2024 1:37 PM View: Appendix III

Grumman Road Landfill Client: Southern Company Data: Grumman Road Landfill

	GWB-5R	GWC-1	GWA-8 (bg)	GWB-6R	GWC-9	GWC-2	GWC-11	GWC-13	GWC-12
9/22/2021					19.3	7.4			
9/23/2021		8.8							
1/31/2022			11.2						
2/1/2022									
2/2/2022				42.3	17.5	6.9			
2/3/2022	38.5	8					83.4	8.8	57
8/30/2022	76.8		9.93	52					58.4
8/31/2022							110	6.69	
9/1/2022		9.17			17.6	6.59			
1/31/2023			11						
2/1/2023	172			51.6	18.8		138	6.17	64.5
2/2/2023		6.47				5.42			
8/28/2023			10.1						
8/29/2023	61.8	7.48		53.2	21.1	4.97		7.34	
9/6/2023							98		74.1
9/7/2023									
1/23/2024		6.4	13.4	55.4					
1/24/2024	279				22.4		75.6		
1/25/2024						5.09		7.26	84.4
8/19/2024									
8/20/2024		8.85		53					
8/21/2024	138		18.2		24	5.61	48.9	6.83	117
8/22/2024									

Prediction Limit

Constituent: Chloride (mg/L) Analysis Run 12/13/2024 1:37 PM View: Appendix III

Grumman Road Landfill Client: Southern Company Data: Grumman Road Landfill

	GWC-22	GWC-16	GWC-14	GWC-17	GWB-4R	GWC-20	GWC-21	GWC-15	GWA-7 (bg)
8/30/2016									
8/31/2016	320								
9/1/2016		43	60	610	160	16	5.9	10	190
10/24/2016									
10/25/2016		34	36			8.1	4.4	6.5	175 (D)
10/26/2016	450			570	110				
10/27/2016									
1/3/2017									
1/4/2017	330	29				13	7.7		
1/5/2017			37	710				10	
1/6/2017					67				180
4/3/2017								7.3	
4/4/2017			47		80	23	8		
4/5/2017		36		860					
4/6/2017	50								200
7/10/2017									
7/11/2017	70		34			31		5.7	
7/12/2017		44			120				
7/13/2017				860			5.4		200
10/2/2017			34			30		4.4	
10/3/2017		58					4.4		
10/4/2017	360			1000	130				260
1/9/2018			24				4.4	5.7	210
1/10/2018		36				9.7			
1/11/2018	74			940	60				
7/9/2018			25.9			10.8			
7/10/2018		57					6.3	3.1	
7/11/2018	164			864	75.9				177
1/16/2019			29.2	469	20.2				165
1/17/2019		48.9					5.4	3.2	
1/18/2019	11								
1/21/2019						5.1			
3/25/2019					19.7	9.4			147
3/26/2019		5.1	21.1	439			11.9	3	
3/27/2019	11.5								
7/30/2019									
10/7/2019									
10/8/2019		46.4	40.2				7.8	2.9	125
10/9/2019	25.3			330	32.1	5.4			
4/6/2020									30.2
4/7/2020	146	49.3	41.6		14.5		4.7	3.4	
4/8/2020				277		20.2			
9/28/2020									113
9/29/2020			10.6						
9/30/2020	8.5	39.6		257		34.9	23.7	1.7	
10/1/2020					15.7				
3/10/2021	48.2				16				
3/11/2021				334					96.7
3/12/2021						31.9		2.3	
3/15/2021									
3/16/2021		44.9	15.8				25.3		
9/21/2021	9.4				13.9				92.2

Prediction Limit

Constituent: Chloride (mg/L) Analysis Run 12/13/2024 1:37 PM View: Appendix III

Grumman Road Landfill Client: Southern Company Data: Grumman Road Landfill

	GWC-22	GWC-16	GWC-14	GWC-17	GWB-4R	GWC-20	GWC-21	GWC-15	GWA-7 (bg)
9/22/2021		55.8	28	517		38.9	6		
9/23/2021								7.1	
1/31/2022									83.4
2/1/2022		61.5		549		33.4	29.3		
2/2/2022			29.6		14.5				
2/3/2022	10.8							5.1	
8/30/2022			26.7		65	24.4	29.4		74.4
8/31/2022	51.2			694				4.83	
9/1/2022		57.2							
1/31/2023									70.1
2/1/2023		47.1		470		15.3			
2/2/2023	18.2		18.2		82.4		23.3	4.69	
8/28/2023									91.9
8/29/2023	521			476	66				
9/6/2023		45.9	22.7			12.2	24.5		
9/7/2023								4.46	
1/23/2024	9.89								105
1/24/2024				476		7.57		5.13	
1/25/2024		39.1	18.5		110		23.4		
8/19/2024									86.5
8/20/2024					114				
8/21/2024	10.5	34.8	24.3	479		13.1		5.49	
8/22/2024							15.8		

Prediction Limit

Constituent: Fluoride (mg/L) Analysis Run 12/13/2024 1:37 PM View: Appendix III

Grumman Road Landfill Client: Southern Company Data: Grumman Road Landfill

	GWA-8 (bg)	GWB-5R	GWC-1	GWB-6R	GWC-22	GWC-2	GWC-9	GWC-12	GWC-11
8/30/2016	0.1 (J)	0.04 (J)	0.22 (J)	0.09 (J)					
8/31/2016					0.04 (J)	0.07 (J)	0.55	0.7	<0.1
9/1/2016									
10/24/2016	0.18 (J)								
10/25/2016			<0.1						
10/26/2016		0.05 (J)		0.24 (J)	0.12 (J)	0.62		0.91	<0.1
10/27/2016							0.26 (J)		
1/3/2017	0.18 (J)	0.08 (J)							
1/4/2017			0.18 (J)		0.06 (J)			0.51	<0.1
1/5/2017				0.11 (J)		0.17 (J)			
1/6/2017							0.25 (J)		
4/3/2017	0.12 (J)								
4/4/2017			<0.1			0.08 (J)			
4/5/2017								0.71	
4/6/2017		0.006 (J)		0.3	<0.1		0.16 (J)		<0.1
7/10/2017								0.88	
7/11/2017	0.39				0.03 (J)				<0.1
7/12/2017		0.05 (J)	0.04 (J)	0.15 (J)			0.2 (J)		
7/13/2017						0.06 (J)			
10/2/2017	0.12 (J)								
10/3/2017		0.11 (J)	<0.1	0.11 (J)		0.06 (J)			<0.1
10/4/2017					0.12 (J)		0.22 (J)	0.37	
1/9/2018	0.21 (J)			<0.1					
1/10/2018		<0.1	<0.1			<0.1			
1/11/2018					<0.1		0.98	1.4	<0.1
7/9/2018	0.04 (J)								
7/10/2018		0.2 (J)	<0.1	<0.1		<0.1			
7/11/2018					<0.1		0.14 (J)	0.62	<0.1
1/16/2019	<0.1	<0.1	<0.1	0.053 (J)					
1/17/2019								1.2	<0.1
1/18/2019					<0.1		0.24 (J)		
1/21/2019						<0.1			
3/25/2019	0.082 (J)								
3/26/2019		<0.1	0.051 (J)	0.046 (J)					
3/27/2019					<0.1		0.13 (J)	0.036 (J)	<0.1
7/30/2019						0.083 (J)			
8/26/2019	0.13								
8/27/2019			<0.1	0.13 (J)	0.1	<0.1		0.3	<0.1
8/28/2019		0.097 (J)					0.088 (J)		
10/7/2019	<0.1								
10/8/2019									<0.1
10/9/2019		<0.1	<0.1	<0.1	<0.1	<0.1	0.068 (J)	<0.1	
4/6/2020	0.089 (J)								
4/7/2020		<0.1	<0.1	<0.1	<0.1			0.27 (J)	<0.1
4/8/2020						<0.1	0.058 (J)		
8/17/2020	0.079 (J)							0.19	
8/18/2020					<0.1	<0.1			<0.1
8/19/2020		<0.1	<0.1	<0.1			0.092 (J)		
9/28/2020	<0.1		<0.1						
9/29/2020						<0.1		0.16	<0.1
9/30/2020		<0.1		<0.1	<0.1				
10/1/2020							<0.1		

ND substitution: RL or RL/2 if <15% NDs.

Prediction Limit

Constituent: Fluoride (mg/L) Analysis Run 12/13/2024 1:37 PM View: Appendix III

Grumman Road Landfill Client: Southern Company Data: Grumman Road Landfill

	GWA-8 (bg)	GWB-5R	GWC-1	GWB-6R	GWC-22	GWC-2	GWC-9	GWC-12	GWC-11
3/10/2021		<0.1	<0.1	<0.1	<0.1		0.066 (J)	0.14	<0.1
3/11/2021									
3/12/2021	0.087 (J)								
3/15/2021						<0.1			
3/16/2021									
9/21/2021	0.068 (J)	<0.1		<0.1	<0.1			0.31	<0.1
9/22/2021						<0.1	0.13		
9/23/2021			<0.1						
1/31/2022	0.09 (J)								
2/1/2022									
2/2/2022				<0.1		<0.1	<0.1		
2/3/2022		0.081 (J)	<0.1		<0.1			0.36	<0.1
8/30/2022	0.0759 (J)	0.0428 (J)		<0.1				0.273	
8/31/2022					<0.1				<0.1
9/1/2022			<0.1			<0.1	0.0783 (J)		
1/31/2023	0.0842 (J)								
2/1/2023		0.0546 (J)		<0.1			0.0994 (J)	0.231	<0.1
2/2/2023			<0.1		<0.1	<0.1			
8/28/2023	0.0498 (J)								
8/29/2023		<0.1	0.0596 (J)	0.0523 (J)	0.0758 (J)	<0.1	0.115		
9/6/2023								0.238	<0.1
9/7/2023									
1/23/2024	0.0641 (J)		<0.1	<0.1	<0.1				
1/24/2024		<0.1					0.0618 (J)		<0.1
1/25/2024						0.0377 (J)		0.182	
8/19/2024									
8/20/2024			<0.1	0.0768 (J)					
8/21/2024	0.108	0.0435 (J)			<0.1	0.0532 (J)	0.134	0.194	<0.1
8/22/2024									

ND substitution: RL or RL/2 if <15% NDs.

Prediction Limit

Constituent: Fluoride (mg/L) Analysis Run 12/13/2024 1:37 PM View: Appendix III

Grumman Road Landfill Client: Southern Company Data: Grumman Road Landfill

	GWC-13	GWC-15	GWC-14	GWC-20	GWB-4R	GWC-21	GWC-16	GWC-17	GWA-7 (bg)
8/30/2016									
8/31/2016	<0.1								
9/1/2016		<0.1	0.25 (J)	<0.1	<0.1	<0.1	0.55	0.68	<0.1
10/24/2016									
10/25/2016		0.5	0.43	<0.1		<0.1	0.36		0.07 (J)
10/26/2016	0.55				0.05 (J)			0.68	
10/27/2016									
1/3/2017									
1/4/2017				0.04 (J)		<0.1	0.1 (J)		
1/5/2017	0.09 (J)	0.22 (J)	0.21 (J)					0.73	
1/6/2017					0.08 (J)				0.2 (J)
4/3/2017		<0.1							
4/4/2017			0.45	0.02 (J)	<0.1	<0.1			
4/5/2017							0.2 (J)	1.6	
4/6/2017	<0.1								0.05 (J)
7/10/2017									
7/11/2017		0.06 (J)	0.41	0.14 (J)					
7/12/2017	<0.1				0.38		0.04 (J)		
7/13/2017						<0.1		1.7	0.41
10/2/2017		<0.1	<0.1	<0.1					
10/3/2017						<0.1	0.86		
10/4/2017	<0.1				<0.1			1.8	0.04 (J)
1/9/2018		<0.1	<0.1			<0.1			0.46
1/10/2018	<0.1			<0.1			<0.1		
1/11/2018					<0.1			1.5	
7/9/2018			<0.1	<0.1					
7/10/2018		0.15 (J)				<0.1	<0.1		
7/11/2018	<0.1				<0.1			1.8	<0.1
1/16/2019	<0.1		<0.1		1.2			1.4	0.49
1/17/2019		<0.1				<0.1	<0.1		
1/18/2019									
1/21/2019				<0.1					
3/25/2019				0.043 (J)	0.064 (J)				0.21 (J)
3/26/2019	0.052 (J)	0.13 (J)	0.13 (J)			0.071 (J)	0.11 (J)	0.89	
3/27/2019									
7/30/2019									
8/26/2019									<0.1
8/27/2019	<0.1	<0.1	<0.1		0.031 (J)				
8/28/2019				<0.1		<0.1	<0.1	0.61	
10/7/2019									
10/8/2019	<0.1	<0.1	<0.1			<0.1	<0.1		<0.1
10/9/2019				<0.1	<0.1			<0.1	
4/6/2020									0.13 (J)
4/7/2020		<0.1	<0.1		<0.1	<0.1	<0.1		
4/8/2020	<0.1			<0.1				0.55	
8/17/2020	<0.1								
8/18/2020		<0.1	<0.1	<0.1		<0.1	<0.1	0.51	
8/19/2020					0.17				0.21
9/28/2020	<0.1								0.069 (J)
9/29/2020			<0.1						
9/30/2020		<0.1		<0.1		<0.1	<0.1	0.15	
10/1/2020					<0.1				

ND substitution: RL or RL/2 if <15% NDs.

Prediction Limit

Constituent: Fluoride (mg/L) Analysis Run 12/13/2024 1:37 PM View: Appendix III

Grumman Road Landfill Client: Southern Company Data: Grumman Road Landfill

	GWC-13	GWC-15	GWC-14	GWC-20	GWB-4R	GWC-21	GWC-16	GWC-17	GWA-7 (bg)
3/10/2021					<0.1				
3/11/2021								0.42	<0.1
3/12/2021		<0.1		<0.1					
3/15/2021	<0.1								
3/16/2021			<0.1			<0.1	<0.1		
9/21/2021	<0.1				<0.1				0.077 (J)
9/22/2021			<0.1	<0.1		<0.1	<0.1	0.79	
9/23/2021		<0.1							
1/31/2022									<0.1
2/1/2022				<0.1		<0.1	<0.1	0.68	
2/2/2022			<0.1		<0.1				
2/3/2022	<0.1	<0.1							
8/30/2022			<0.1	<0.1	<0.1	<0.1			0.0391 (J)
8/31/2022	0.051 (J)	<0.1						0.442	
9/1/2022							0.0374 (J)		
1/31/2023									0.051 (J)
2/1/2023	0.0423 (J)			<0.1			0.0702 (J)	0.604	
2/2/2023		<0.1	<0.1		<0.1	<0.1			
8/28/2023									<0.1
8/29/2023	<0.1				<0.1			0.572	
9/6/2023			<0.1	<0.1		<0.1	<0.1		
9/7/2023		<0.1							
1/23/2024									0.0367 (J)
1/24/2024		<0.1		<0.1				0.416	
1/25/2024	<0.1		<0.1		<0.1	<0.1	<0.1		
8/19/2024									0.061 (J)
8/20/2024					<0.1				
8/21/2024	0.0496 (J)	<0.1	<0.1	0.168			<0.1	0.642	
8/22/2024						<0.1			

ND substitution: RL or RL/2 if <15% NDs.

Prediction Limit

Constituent: pH (SU) Analysis Run 12/13/2024 1:37 PM View: Appendix III

Grumman Road Landfill Client: Southern Company Data: Grumman Road Landfill

	GWC-14	GWB-6R	GWC-1	GWC-11	GWC-12	GWC-13	GWC-15	GWB-5R	GWC-16
7/16/2013	4.62	5.25	5.38	5.2	4.17	4.95	5.96	5.95	4.92
10/11/2014	4.58								5.17
10/24/2016									
10/25/2016	4.79		5.51				6.46		5.58
10/26/2016		5.21		5.08	4.04	4.95		5.27	
10/27/2016									
1/3/2017								5.09	
1/4/2017			5.46	5.06	4.01				5.51
1/5/2017	4.73	5.2				4.97	6.25		
1/6/2017									
4/3/2017							6.25		
4/4/2017	4.68		5.43						
4/5/2017					4	4.81			5.51
4/6/2017		5.17		4.97				5.22	
7/10/2017					3.89				
7/11/2017	4.72			5.26			6.5		
7/12/2017		5.24	5.46			4.83		5.29	5.84
7/13/2017									
10/2/2017	5.13						6.83		
10/3/2017		5.36	5.65	5.07				5.08	5.55
10/4/2017					4.06	4.71			
1/9/2018	5.59	5.4					6.57		
1/10/2018			5.67			5.17		5.83	5.99
1/11/2018				5.18	3.96				
7/9/2018	5.11								
7/10/2018		5.31	5.71				6.42	6.42	5.5
7/11/2018				4.82	3.95	4.49			
1/16/2019	6.82	5.99	5.59			6.45 (O)		6.66	
1/17/2019				4.91	3.89		8.44 (O)		7.13
1/18/2019									
1/21/2019									
3/25/2019									
3/26/2019	5.74	5.94	5.77			4.96	6.65	5.1	5.57
3/27/2019				5.18	4.11				
7/30/2019									
8/26/2019									
8/27/2019	5.58	5.67	5.84	5.17	4.02	4.9	6.57		
8/28/2019								5.95	5.57
10/7/2019									
10/8/2019	5.68			4.93		4.81	6.65		5.54
10/9/2019		5.66	5.82		4.25			6.11	
4/6/2020									
4/7/2020	6.2	5.86	5.3	5.05	4.1		6.83	5.45	5.94
4/8/2020						4.81			
8/17/2020					3.94	4.65			
8/18/2020	5.56			4.41			6.39		5.52
8/19/2020		5.21	5.73					5.14 (D)	
9/28/2020			5.79			4.76			
9/29/2020	5.69			4.77	3.95				
9/30/2020		5.39					6.71	4.99	5.47
10/1/2020									
3/10/2021		5.69	5.42	4.97	4.08			4.73	

Prediction Limit

Constituent: pH (SU) Analysis Run 12/13/2024 1:37 PM View: Appendix III

Grumman Road Landfill Client: Southern Company Data: Grumman Road Landfill

	GWC-14	GWB-6R	GWC-1	GWC-11	GWC-12	GWC-13	GWC-15	GWB-5R	GWC-16
3/11/2021									
3/12/2021							6.21		
3/15/2021						4.74			
3/16/2021	5.53								5.67
9/21/2021		5.4		4.92	4.05	4.83		4.68	
9/22/2021	5.76								5.57
9/23/2021			6.06				6.48		
1/31/2022									
2/1/2022									5.57
2/2/2022	5.98	5.75							
2/3/2022			5.89	4.98	4.04	4.97	6.61	4.48	
8/30/2022	5.86	5.55			3.92			5.22	
8/31/2022				4.85		4.76	6.57		
9/1/2022			5.8						5.37
1/31/2023									
2/1/2023		5.54		4.71	3.93	4.86		5.81	5.23
2/2/2023	5.98		5.78				6.65		
8/28/2023									
8/29/2023		5.33	5.68			4.89		5.17	
9/6/2023	6.19			5.05	4.35				5.16
9/7/2023							6.64		
1/23/2024		5.57	5.96						
1/24/2024				4.95			6.61	6.28	
1/25/2024	6.11				3.84	4.9			5.35
8/19/2024									
8/20/2024		5.62	5.83						
8/21/2024	5.75			5.02	4.09	4.73	6.69	6	5.53
8/22/2024									

Prediction Limit

Constituent: pH (SU) Analysis Run 12/13/2024 1:37 PM View: Appendix III

Grumman Road Landfill Client: Southern Company Data: Grumman Road Landfill

	GWB-4R	GWC-17	GWC-2	GWC-20	GWC-21	GWC-22	GWC-9	GWA-8 (bg)	GWA-7 (bg)
7/16/2013	6.22	4.55	4.52	6.1	5.71	4.91	5.05		
10/11/2014								4.42	
10/24/2016								4.36	
10/25/2016				6.06	5.41				6.17
10/26/2016	6.06	4.45	4.48			4.6			
10/27/2016							4.65		
1/3/2017								4.28	
1/4/2017				6.05	5.6	4.63			
1/5/2017		4.45	4.85						
1/6/2017	6.02						4.56		6.16
4/3/2017								4.29	
4/4/2017	6.08		4.58	6.03	5.94				
4/5/2017		4.33							
4/6/2017						4.79	4.5		6.26
7/10/2017									
7/11/2017				5.96		4.73		4.35	
7/12/2017	5.93						4.56		
7/13/2017		4.11	4.74		5.6				5.99
10/2/2017				5.88				4.32	
10/3/2017			4.57		5.18				
10/4/2017	5.77	4.09				4.74	4.72		6.16
1/9/2018					6.14			4.44	6.43
1/10/2018			5.31	6.21					
1/11/2018	5.98	4.4				5.22	4.34		
7/9/2018				6.24				4.4	
7/10/2018			4.58		5.7				
7/11/2018	6.01	4.07				4.68	4.68		6.1
1/16/2019	5.83	4.05						6.16 (O)	6.05
1/17/2019					7.39				
1/18/2019						6.98 (O)	6.87 (O)		
1/21/2019			5.05	7.73 (O)					
3/25/2019	5.74			6.28				4.4	6.06
3/26/2019		4.62			6.08				
3/27/2019						4.77	4.38		
7/30/2019			4.74						
8/26/2019								4.26	5.91
8/27/2019	5.7		4.77			4.89			
8/28/2019		4.62		6.34	6.05		4.68		
10/7/2019								4.24	
10/8/2019					6.09				5.74
10/9/2019	5.79	4.66	4.79	6.5		4.68	4.62		
4/6/2020								4.52	6.02
4/7/2020	5.74				6	4.8			
4/8/2020		4.71	4.66	6.31			4.73		
8/17/2020								4.23	
8/18/2020		4.31	4.6	5.89	5.82	4.52			
8/19/2020	5.7						4.58		5.81 (D)
9/28/2020								4.41	5.86
9/29/2020			4.6						
9/30/2020		4.08		6.04	5.82	4.63			
10/1/2020	5.75						4.42		
3/10/2021	5.23					4.82	4.55		

Prediction Limit

Constituent: pH (SU) Analysis Run 12/13/2024 1:37 PM View: Appendix III

Grumman Road Landfill Client: Southern Company Data: Grumman Road Landfill

	GWB-4R	GWC-17	GWC-2	GWC-20	GWC-21	GWC-22	GWC-9	GWA-8 (bg)	GWA-7 (bg)
3/11/2021		5.2							5.85
3/12/2021				5.86				4.54	
3/15/2021			4.56						
3/16/2021					5.74				
9/21/2021	5.78					4.72		4.44	6.03
9/22/2021		4.63	4.71	6	5.39		4.7		
9/23/2021									
1/31/2022								4.39	5.94
2/1/2022		4.53		5.9	5.76				
2/2/2022	5.71		4.79				4.66		
2/3/2022						4.63			
8/30/2022	5.67			6.01	5.76			4.58	5.98
8/31/2022		4.33				4.68			
9/1/2022			4.73				4.6		
1/31/2023								4.6	6.02
2/1/2023		4.74		6.01			4.57		
2/2/2023	5.99		4.6		5.71	4.63			
8/28/2023								4.62	5.94
8/29/2023	5.82	4.66	4.68			4.55	4.56		
9/6/2023				5.86	5.78				
9/7/2023									
1/23/2024						4.84		4.68	6.08
1/24/2024		4.74		6.41			4.65		
1/25/2024	6.17		4.79		5.77				
8/19/2024									6.19
8/20/2024	6.28								
8/21/2024		4.47	4.76	6.03		4.81	4.64	4.59	
8/22/2024					5.54				

Prediction Limit

Constituent: Sulfate (mg/L) Analysis Run 12/13/2024 1:37 PM View: Appendix III

Grumman Road Landfill Client: Southern Company Data: Grumman Road Landfill

	GWB-5R	GWC-1	GWA-8 (bg)	GWB-6R	GWC-9	GWC-2	GWC-11	GWC-13	GWC-12
8/30/2016	100	87	140	120					
8/31/2016					84	21	64	43	1100
9/1/2016									
10/24/2016			160						
10/25/2016		83							
10/26/2016	130			120		100	56	29	900
10/27/2016					76				
1/3/2017	120		140						
1/4/2017		99					65		880
1/5/2017				130		22		32	
1/6/2017					66				
4/3/2017			140						
4/4/2017		110				29			
4/5/2017									990
4/6/2017	140			150	79		110	49	
7/10/2017									480
7/11/2017			130				49		
7/12/2017	140	100		140	75			16	
7/13/2017						20			
10/2/2017			150						
10/3/2017	130	63		140		20	140		
10/4/2017					78			33	760
1/9/2018			120	140					
1/10/2018	110	86				9.5		22	
1/11/2018					110		270		780
7/9/2018			123						
7/10/2018	48.1	77.7		128		8.5			
7/11/2018					87.4		211	17.8	598
1/16/2019	184	71.2	129	402				20.2	
1/17/2019							50.3		454
1/18/2019					56.9				
1/21/2019						10.2			
3/25/2019			152						
3/26/2019	222	73.8		319				33.6	
3/27/2019					76.2		76.8		579
7/30/2019						12.3			
10/7/2019			156						
10/8/2019							310	22	
10/9/2019	90.8	76.3		255	41.1	10.1			392
4/6/2020			123						
4/7/2020	180	83		180			446		297
4/8/2020					34.2	12.9		30.7	
9/28/2020		71.6	93.6					25.6	
9/29/2020						8.6	516		237
9/30/2020	339			339					
10/1/2020					35				
3/10/2021	572	61.2		1160	38.7		687		282
3/11/2021									
3/12/2021			103						
3/15/2021						10		30.6	
3/16/2021									
9/21/2021	829		96.5	645			433	36.6	315

Prediction Limit

Constituent: Sulfate (mg/L) Analysis Run 12/13/2024 1:37 PM View: Appendix III

Grumman Road Landfill Client: Southern Company Data: Grumman Road Landfill

	GWB-5R	GWC-1	GWA-8 (bg)	GWB-6R	GWC-9	GWC-2	GWC-11	GWC-13	GWC-12
9/22/2021					42.7	10.3			
9/23/2021		37.3							
1/31/2022			89.7						
2/1/2022									
2/2/2022				1460	31.5	9			
2/3/2022	797	49.2					347	32.1	333
8/30/2022	403		77.4	978					415
8/31/2022							653	29	
9/1/2022		44			28.7	10.3			
1/31/2023			79.3						
2/1/2023	190			842	25.2		1090	34.5	527
2/2/2023		35.3				11.9			
8/28/2023			62.9						
8/29/2023	299	64.7		763	15.7	10.5		47.5	
9/6/2023							827		437
9/7/2023									
1/23/2024		54.4	78.2	678					
1/24/2024	75.2				15.3		593		
1/25/2024						10.9		43.7	394
8/19/2024									
8/20/2024		54		734					
8/21/2024	289		107		24.1	11.6	404	44.4	602
8/22/2024									

Prediction Limit

Constituent: Sulfate (mg/L) Analysis Run 12/13/2024 1:37 PM View: Appendix III

Grumman Road Landfill Client: Southern Company Data: Grumman Road Landfill

	GWC-22	GWC-16	GWC-14	GWC-17	GWB-4R	GWC-20	GWC-21	GWC-15	GWA-7 (bg)
8/30/2016									
8/31/2016	700								
9/1/2016		430	730	310	210	180	36	120	73
10/24/2016									
10/25/2016		360	420			79	16	100	26
10/26/2016	850			280	230				
10/27/2016									
1/3/2017									
1/4/2017	680	360				170	45		
1/5/2017			430	310				140	
1/6/2017					220				23
4/3/2017								150	
4/4/2017			600		230	300	46		
4/5/2017		440		460					
4/6/2017	220								25
7/10/2017									
7/11/2017	210		400			400		110	
7/12/2017		490			210				
7/13/2017				490			33		65
10/2/2017			470			390		56	
10/3/2017		780					34		
10/4/2017	730			1100	290				13
1/9/2018			440				29	84	45
1/10/2018		470				99			
1/11/2018	180			810	210				
7/9/2018			369			99.2			
7/10/2018		787					33.2	43	
7/11/2018	381			902	177				37.7
1/16/2019			291	422	244				24.5
1/17/2019		780					24.1	45.2	
1/18/2019	107								
1/21/2019						35.5			
3/25/2019					245	95.6			14.7
3/26/2019		87.9	192	439			83.9	54	
3/27/2019	103								
7/30/2019									
10/7/2019									
10/8/2019		872	428				85.6	45.8	32.8
10/9/2019	80.2			346	38.5	58.5			
4/6/2020									20.3
4/7/2020	333	844	456		221		33.2	26.9	
4/8/2020				239		428			
9/28/2020									20
9/29/2020			93.5						
9/30/2020	65.5	736		193		956	306	18.5	
10/1/2020					178				
3/10/2021	101				160				
3/11/2021				244					12
3/12/2021						933		21.1	
3/15/2021									
3/16/2021		821	92				343		
9/21/2021	52.4				232				11.1

Prediction Limit

Constituent: Sulfate (mg/L) Analysis Run 12/13/2024 1:37 PM View: Appendix III

Grumman Road Landfill Client: Southern Company Data: Grumman Road Landfill

	GWC-22	GWC-16	GWC-14	GWC-17	GWB-4R	GWC-20	GWC-21	GWC-15	GWA-7 (bg)
9/22/2021		1040	444	394		905	14.6		
9/23/2021								124	
1/31/2022									15
2/1/2022		1010		416		862	374		
2/2/2022			589		338				
2/3/2022	46.2							102	
8/30/2022			410		379	606	451		10.6
8/31/2022	45.3			721				88.5	
9/1/2022		1140							
1/31/2023									7.88
2/1/2023		1160		547		596			
2/2/2023	71.6		220		337		447	34.3	
8/28/2023									6.57
8/29/2023	1010			444	551				
9/6/2023		1250	185			460	470		
9/7/2023								46.8	
1/23/2024	44.9								5.11
1/24/2024				389		140		49.7	
1/25/2024		1130	167		744		499		
8/19/2024									2.76
8/20/2024					772				
8/21/2024	41.8	1370	71.5	453		688		34.2	
8/22/2024							291		

Prediction Limit

Constituent: Total Dissolved Solids (mg/L) Analysis Run 12/13/2024 1:37 PM View: Appendix III

Grumman Road Landfill Client: Southern Company Data: Grumman Road Landfill

	GWC-1	GWB-6R	GWB-5R	GWA-8 (bg)	GWC-9	GWC-2	GWC-13	GWC-22	GWC-11
8/30/2016	225	365	224	234					
8/31/2016					173	39	77	1570	119
9/1/2016									
10/24/2016				216					
10/25/2016	230								
10/26/2016		373	297			135	<10	1840	108
10/27/2016					221				
1/3/2017			366	333					
1/4/2017	349							1560	182
1/5/2017		543				99	146		
1/6/2017					259				
4/3/2017				288					
4/4/2017	356					54			
4/5/2017									
4/6/2017		434	279		169		23 (J)	368	248
7/10/2017									
7/11/2017				188				383	88
7/12/2017	357	454	308		163		39		
7/13/2017						50			
10/2/2017				210					
10/3/2017	192	389	288			18 (J)			248
10/4/2017					168		38	1500	
1/9/2018		415		118					
1/10/2018	277		493			<10	<10		
1/11/2018					190			438	681
7/9/2018				235					
7/10/2018	349	453	1730			49			
7/11/2018					165		63	876	440
1/16/2019	341	1320	382	219			44		
1/17/2019									118
1/18/2019					118			154	
1/21/2019						39			
3/25/2019				240					
3/26/2019	317	1250	1040				72		
3/27/2019					104			158	138
7/30/2019						70			
10/7/2019				275					
10/8/2019							51		613
10/9/2019	338	903	2010		128	46		211	
4/6/2020				214					
4/7/2020	195	775	483					819	780
4/8/2020					80	38	65		
9/28/2020	373			175			60		
9/29/2020						33			1100
9/30/2020		816	652					113	
10/1/2020					111				
3/10/2021	329	2120	1040		89			210	1240
3/11/2021									
3/12/2021				163					
3/15/2021						11	<10		
3/16/2021									
9/21/2021		985	1240	145			83	87	842

ND substitution: RL or RL/2 if <15% NDs.

Prediction Limit

Constituent: Total Dissolved Solids (mg/L) Analysis Run 12/13/2024 1:37 PM View: Appendix III

Grumman Road Landfill Client: Southern Company Data: Grumman Road Landfill

	GWC-1	GWB-6R	GWB-5R	GWA-8 (bg)	GWC-9	GWC-2	GWC-13	GWC-22	GWC-11
9/22/2021					94	33			
9/23/2021	360								
1/31/2022				153					
2/1/2022									
2/2/2022		2440			96	43			
2/3/2022	315		1240				72	89	538
8/30/2022		1810	886	154					
8/31/2022							55	163	1240
9/1/2022	228				85	9 (J)			
1/31/2023				122					
2/1/2023		1570	1240		59		37		2010
2/2/2023	166					<10		113	
8/28/2023				138					
8/29/2023	272	1320	644		70	9 (J)	62	2300	
9/6/2023									1330
9/7/2023									
1/23/2024	263	1310		158				88	
1/24/2024			2650		86				1170
1/25/2024						17	75		
8/19/2024									
8/20/2024	217	1190							
8/21/2024			1160	165	90	25	77	81	510
8/22/2024									

ND substitution: RL or RL/2 if <15% NDs.

Prediction Limit

Constituent: Total Dissolved Solids (mg/L) Analysis Run 12/13/2024 1:37 PM View: Appendix III

Grumman Road Landfill Client: Southern Company Data: Grumman Road Landfill

	GWC-12	GWC-15	GWB-4R	GWC-14	GWC-17	GWC-20	GWC-16	GWC-21	GWA-7 (bg)
8/30/2016									
8/31/2016	1560								
9/1/2016		539	1080	1170	1270	470	878	184	3660 (o)
10/24/2016									
10/25/2016		449		633		289	585	<10	3560 (o)
10/26/2016	1520		1050		1320				
10/27/2016									
1/3/2017									
1/4/2017	1430					639	783	242	
1/5/2017		565		781	1770				
1/6/2017			1060						3490 (o)
4/3/2017		632							
4/4/2017			994	916		660		187	
4/5/2017	1200				1600		722		
4/6/2017									3170 (o)
7/10/2017	1100								
7/11/2017		569		675		836			
7/12/2017			1070				962		
7/13/2017					1940			86	2280
10/2/2017		559		689		698			
10/3/2017							1240	66	
10/4/2017	986		1100		2370				3350 (o)
1/9/2018		520		653				167	2640
1/10/2018						322	935		
1/11/2018	1020		838		2350				
7/9/2018				659		461			
7/10/2018		524					1040	180	
7/11/2018	888		799		2260				2200
1/16/2019			530	656	1540				2100
1/17/2019	765	518 (D)					1320	178	
1/18/2019									
1/21/2019						307			
3/25/2019			479			449			2100
3/26/2019		541		496	1220		1380	292	
3/27/2019	673								
7/30/2019									
10/7/2019									
10/8/2019		526		841			1500	278	1840
10/9/2019	647		502		1100	434			
4/6/2020									1670
4/7/2020	464	428	482	843			1500	106	
4/8/2020					881	986			
9/28/2020									1450
9/29/2020	440			187					
9/30/2020		434			752	1860	1140	634	
10/1/2020			424						
3/10/2021	566		434						
3/11/2021					705				1220
3/12/2021		353				1730			
3/15/2021									
3/16/2021				137			980	454	
9/21/2021	558		476						1210

ND substitution: RL or RL/2 if <15% NDs.

Prediction Limit

Constituent: Total Dissolved Solids (mg/L) Analysis Run 12/13/2024 1:37 PM View: Appendix III

Grumman Road Landfill Client: Southern Company Data: Grumman Road Landfill

	GWC-12	GWC-15	GWB-4R	GWC-14	GWC-17	GWC-20	GWC-16	GWC-21	GWA-7 (bg)
9/22/2021				864	1530	1430	1680	51	
9/23/2021		556							
1/31/2022									1260
2/1/2022					1580	1580	1990	783	
2/2/2022			654	1130					
2/3/2022	566	516							
8/30/2022	713		882	720		1210		807	1340
8/31/2022		530			2050				
9/1/2022							1720		
1/31/2023									1230
2/1/2023	694				1470	2290	2010		
2/2/2023		440	1180	566				775	
8/28/2023									1450
8/29/2023			1290		1270				
9/6/2023	686			594		924	1980	826	
9/7/2023		471							
1/23/2024									1580
1/24/2024		497			1400	597			
1/25/2024	733		2010	446			1860	921	
8/19/2024									1540
8/20/2024			1970						
8/21/2024	817	464		239	1120	1210	2100		
8/22/2024								517	

FIGURE G.

Appendix III - Trend Test Summary - Significant Results

Grumman Road Landfill Client: Southern Company Data: Grumman Road Landfill Printed 12/13/2024, 1:39 PM

Constituent	Well	Slope	Calc.	Critical	Sig.	N	%NDs	Normality	Alpha	Method
Boron (mg/L)	**GWA-7 (bg)**	**-1.604**	**-107**	**-87**	**Yes**	**21**	**0**	**n/a**	**0.01**	**NP**
Boron (mg/L)	**GWA-8 (bg)**	**0.009091**	**114**	**87**	**Yes**	**21**	**0**	**n/a**	**0.01**	**NP**
Boron (mg/L)	**GWC-16**	**2.606**	**190**	**87**	**Yes**	**21**	**0**	**n/a**	**0.01**	**NP**
Calcium (mg/L)	**GWA-7 (bg)**	**-0.4001**	**-118**	**-87**	**Yes**	**21**	**0**	**n/a**	**0.01**	**NP**
Calcium (mg/L)	**GWB-4R**	**17.67**	**148**	**87**	**Yes**	**21**	**0**	**n/a**	**0.01**	**NP**
Calcium (mg/L)	**GWB-6R**	**10.56**	**135**	**87**	**Yes**	**21**	**0**	**n/a**	**0.01**	**NP**
Calcium (mg/L)	**GWC-1**	**3.066**	**92**	**87**	**Yes**	**21**	**0**	**n/a**	**0.01**	**NP**
Calcium (mg/L)	**GWC-11**	**16.76**	**146**	**87**	**Yes**	**21**	**0**	**n/a**	**0.01**	**NP**
Calcium (mg/L)	**GWC-16**	**25.16**	**148**	**87**	**Yes**	**21**	**0**	**n/a**	**0.01**	**NP**
Calcium (mg/L)	**GWC-21**	**16.79**	**113**	**87**	**Yes**	**21**	**0**	**n/a**	**0.01**	**NP**
Chloride (mg/L)	**GWA-7 (bg)**	**-18.04**	**-131**	**-87**	**Yes**	**21**	**0**	**n/a**	**0.01**	**NP**
pH (SU)	**GWA-8 (bg)**	**0.0357**	**107**	**92**	**Yes**	**22**	**0**	**n/a**	**0.01**	**NP**
Sulfate (mg/L)	**GWA-7 (bg)**	**-3.957**	**-152**	**-87**	**Yes**	**21**	**0**	**n/a**	**0.01**	**NP**
Sulfate (mg/L)	**GWA-8 (bg)**	**-10.02**	**-128**	**-87**	**Yes**	**21**	**0**	**n/a**	**0.01**	**NP**
Sulfate (mg/L)	**GWB-4R**	**27.8**	**88**	**87**	**Yes**	**21**	**0**	**n/a**	**0.01**	**NP**
Sulfate (mg/L)	**GWB-6R**	**90.19**	**136**	**87**	**Yes**	**21**	**0**	**n/a**	**0.01**	**NP**
Sulfate (mg/L)	**GWC-11**	**90.66**	**134**	**87**	**Yes**	**21**	**0**	**n/a**	**0.01**	**NP**
Sulfate (mg/L)	**GWC-12**	**-74.79**	**-94**	**-87**	**Yes**	**21**	**0**	**n/a**	**0.01**	**NP**
Sulfate (mg/L)	**GWC-16**	**115.8**	**156**	**87**	**Yes**	**21**	**0**	**n/a**	**0.01**	**NP**
Sulfate (mg/L)	**GWC-21**	**58.5**	**107**	**87**	**Yes**	**21**	**0**	**n/a**	**0.01**	**NP**

Appendix III - Trend Test Summary - All Results

Grumman Road Landfill Client: Southern Company Data: Grumman Road Landfill Printed 12/13/2024, 1:39 PM

Constituent	Well	Slope	Calc.	Critical	Sig.	N	%NDs	Normality	Alpha	Method
Boron (mg/L)	**GWA-7 (bg)**	**-1.604**	**-107**	**-87**	**Yes**	**21**	**0**	**n/a**	**0.01**	**NP**
Boron (mg/L)	**GWA-8 (bg)**	**0.009091**	**114**	**87**	**Yes**	**21**	**0**	**n/a**	**0.01**	**NP**
Boron (mg/L)	**GWC-16**	**2.606**	**190**	**87**	**Yes**	**21**	**0**	**n/a**	**0.01**	**NP**
Calcium (mg/L)	**GWA-7 (bg)**	**-0.4001**	**-118**	**-87**	**Yes**	**21**	**0**	**n/a**	**0.01**	**NP**
Calcium (mg/L)	GWA-8 (bg)	-1.056	-69	-87	No	21	0	n/a	0.01	NP
Calcium (mg/L)	**GWB-4R**	**17.67**	**148**	**87**	**Yes**	**21**	**0**	**n/a**	**0.01**	**NP**
Calcium (mg/L)	**GWB-6R**	**10.56**	**135**	**87**	**Yes**	**21**	**0**	**n/a**	**0.01**	**NP**
Calcium (mg/L)	**GWC-1**	**3.066**	**92**	**87**	**Yes**	**21**	**0**	**n/a**	**0.01**	**NP**
Calcium (mg/L)	**GWC-11**	**16.76**	**146**	**87**	**Yes**	**21**	**0**	**n/a**	**0.01**	**NP**
Calcium (mg/L)	GWC-12	-4.055	-68	-87	No	21	0	n/a	0.01	NP
Calcium (mg/L)	GWC-14	-0.9677	-5	-87	No	21	0	n/a	0.01	NP
Calcium (mg/L)	GWC-15	1.661	44	87	No	21	0	n/a	0.01	NP
Calcium (mg/L)	**GWC-16**	**25.16**	**148**	**87**	**Yes**	**21**	**0**	**n/a**	**0.01**	**NP**
Calcium (mg/L)	GWC-17	-2.068	-28	-87	No	21	0	n/a	0.01	NP
Calcium (mg/L)	GWC-20	15.17	82	87	No	21	0	n/a	0.01	NP
Calcium (mg/L)	**GWC-21**	**16.79**	**113**	**87**	**Yes**	**21**	**0**	**n/a**	**0.01**	**NP**
Chloride (mg/L)	**GWA-7 (bg)**	**-18.04**	**-131**	**-87**	**Yes**	**21**	**0**	**n/a**	**0.01**	**NP**
Chloride (mg/L)	GWA-8 (bg)	-0.2161	-29	-87	No	21	0	n/a	0.01	NP
Chloride (mg/L)	GWC-17	-38.2	-52	-87	No	21	0	n/a	0.01	NP
Fluoride (mg/L)	GWA-7 (bg)	-0.009727	-69	-98	No	23	30.43	n/a	0.01	NP
Fluoride (mg/L)	GWA-8 (bg)	-0.008207	-80	-98	No	23	13.04	n/a	0.01	NP
Fluoride (mg/L)	GWC-17	-0.07415	-98	-98	No	23	4.348	n/a	0.01	NP
pH (SU)	GWA-7 (bg)	-0.0276	-60	-92	No	22	0	n/a	0.01	NP
pH (SU)	**GWA-8 (bg)**	**0.0357**	**107**	**92**	**Yes**	**22**	**0**	**n/a**	**0.01**	**NP**
pH (SU)	GWC-12	-0.004611	-16	-98	No	23	0	n/a	0.01	NP
pH (SU)	GWC-15	0.03619	76	92	No	22	0	n/a	0.01	NP
Sulfate (mg/L)	**GWA-7 (bg)**	**-3.957**	**-152**	**-87**	**Yes**	**21**	**0**	**n/a**	**0.01**	**NP**
Sulfate (mg/L)	**GWA-8 (bg)**	**-10.02**	**-128**	**-87**	**Yes**	**21**	**0**	**n/a**	**0.01**	**NP**
Sulfate (mg/L)	**GWB-4R**	**27.8**	**88**	**87**	**Yes**	**21**	**0**	**n/a**	**0.01**	**NP**
Sulfate (mg/L)	GWB-5R	27.25	78	87	No	21	0	n/a	0.01	NP
Sulfate (mg/L)	**GWB-6R**	**90.19**	**136**	**87**	**Yes**	**21**	**0**	**n/a**	**0.01**	**NP**
Sulfate (mg/L)	**GWC-11**	**90.66**	**134**	**87**	**Yes**	**21**	**0**	**n/a**	**0.01**	**NP**
Sulfate (mg/L)	**GWC-12**	**-74.79**	**-94**	**-87**	**Yes**	**21**	**0**	**n/a**	**0.01**	**NP**
Sulfate (mg/L)	**GWC-16**	**115.8**	**156**	**87**	**Yes**	**21**	**0**	**n/a**	**0.01**	**NP**
Sulfate (mg/L)	GWC-17	5.089	7	87	No	21	0	n/a	0.01	NP
Sulfate (mg/L)	GWC-20	56.03	60	87	No	21	0	n/a	0.01	NP
Sulfate (mg/L)	**GWC-21**	**58.5**	**107**	**87**	**Yes**	**21**	**0**	**n/a**	**0.01**	**NP**

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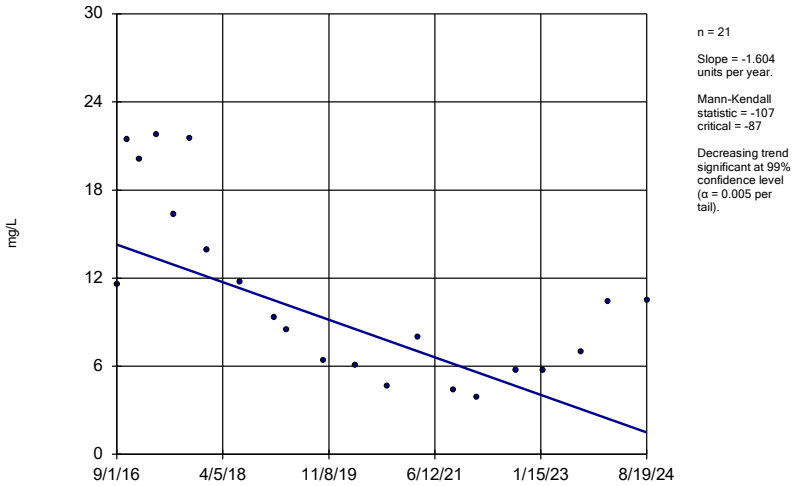
Sen's Slope Estimator

GWA-7 (bg)



n = 21

Slope = -1.604 units per year.

Mann-Kendall statistic = -107
critical = -87

Decreasing trend significant at 99% confidence level (α = 0.005 per tail).

Constituent: Boron Analysis Run 12/13/2024 1:38 PM View: Appendix III - Trend Tests
Grumman Road Landfill Client: Southern Company Data: Grumman Road Landfill

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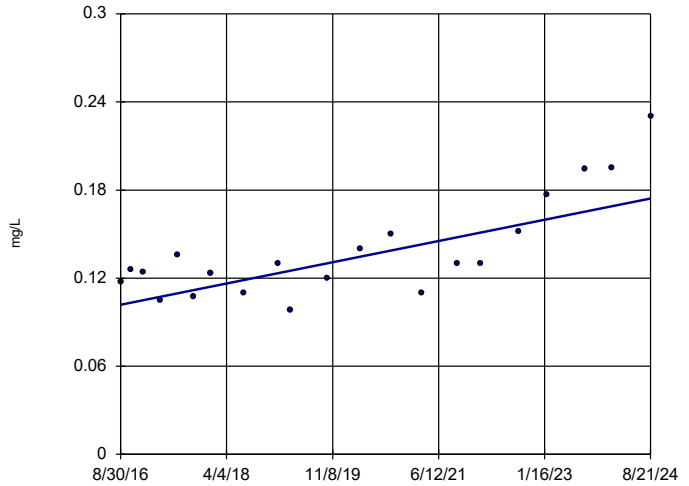
Sen's Slope Estimator

GWA-8 (bg)



n = 21

Slope = 0.009091 units per year.

Mann-Kendall statistic = 114
critical = 87

Increasing trend significant at 99% confidence level (α = 0.005 per tail).

Constituent: Boron Analysis Run 12/13/2024 1:38 PM View: Appendix III - Trend Tests
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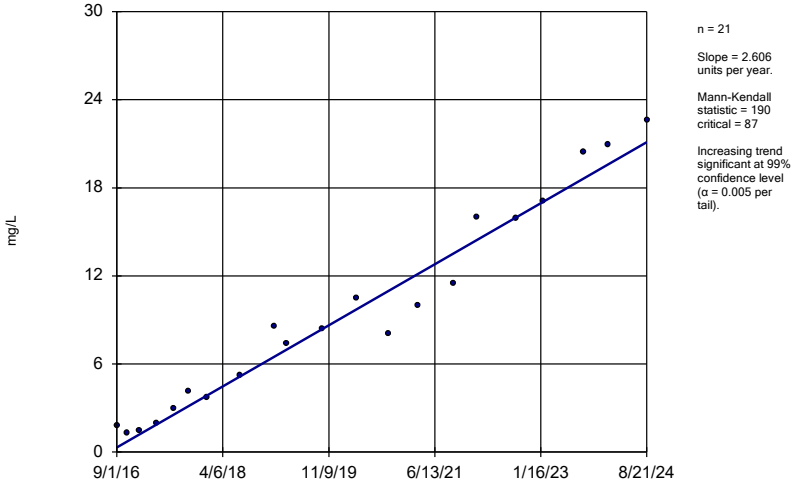
Sen's Slope Estimator

GWC-16



n = 21

Slope = 2.606 units per year.

Mann-Kendall statistic = 190
critical = 87

Increasing trend significant at 99% confidence level (α = 0.005 per tail).

Constituent: Boron Analysis Run 12/13/2024 1:38 PM View: Appendix III - Trend Tests
Grumman Road Landfill Client: Southern Company Data: Grumman Road Landfill

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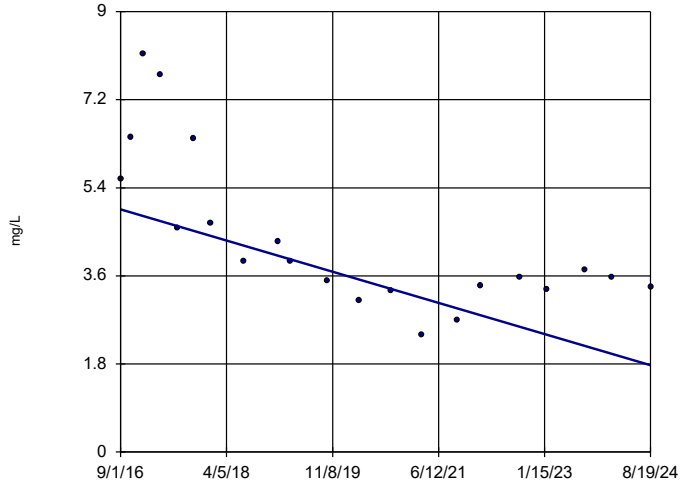
Sen's Slope Estimator

GWA-7 (bg)



n = 21

Slope = -0.4001 units per year.

Mann-Kendall statistic = -118
critical = -87

Decreasing trend significant at 99% confidence level (α = 0.005 per tail).

Constituent: Calcium Analysis Run 12/13/2024 1:38 PM View: Appendix III - Trend Tests
Grumman Road Landfill Client: Southern Company Data: Grumman Road Landfill

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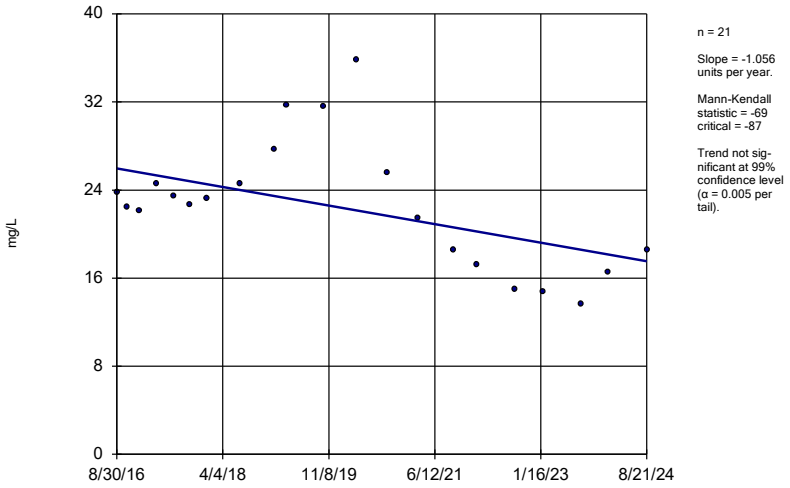
Sen's Slope Estimator

GWA-8 (bg)



n = 21

Slope = -1.056 units per year.

Mann-Kendall statistic = -69 critical = -87

Trend not significant at 99% confidence level (α = 0.005 per tail).

Constituent: Calcium Analysis Run 12/13/2024 1:38 PM View: Appendix III - Trend Tests

Grumman Road Landfill Client: Southern Company Data: Grumman Road Landfill

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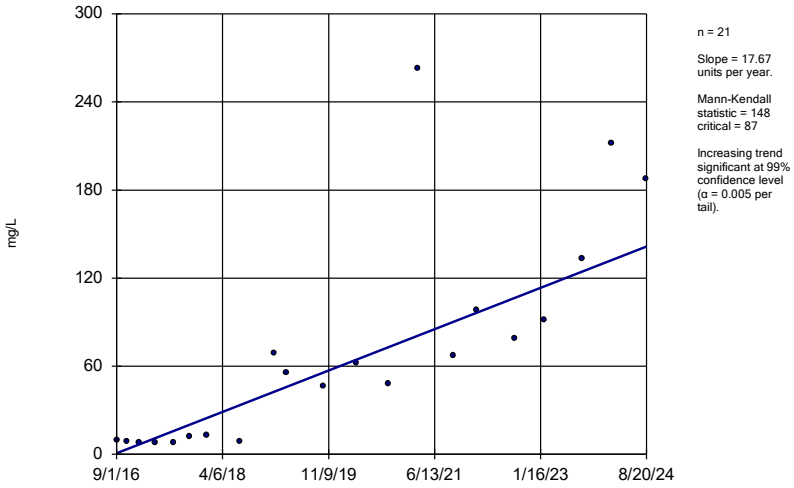
Sen's Slope Estimator

GWB-4R



n = 21

Slope = 17.67 units per year.

Mann-Kendall statistic = 148 critical = 87

Increasing trend significant at 99% confidence level (α = 0.005 per tail).

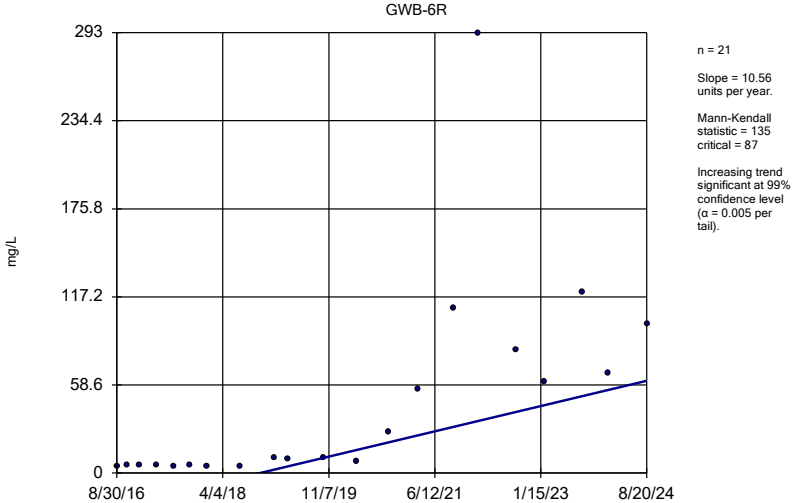
Constituent: Calcium Analysis Run 12/13/2024 1:38 PM View: Appendix III - Trend Tests

Grumman Road Landfill Client: Southern Company Data: Grumman Road Landfill

Sanitas™ v.10.0.23a Software licensed to Groundwater Stats Consulting. UG

Sen's Slope Estimator

GWB-6R



n = 21

Slope = 10.56 units per year.

Mann-Kendall statistic = 135 critical = 87

Increasing trend significant at 99% confidence level (α = 0.005 per tail).

Constituent: Calcium Analysis Run 12/13/2024 1:38 PM View: Appendix III - Trend Tests

Grumman Road Landfill Client: Southern Company Data: Grumman Road Landfill

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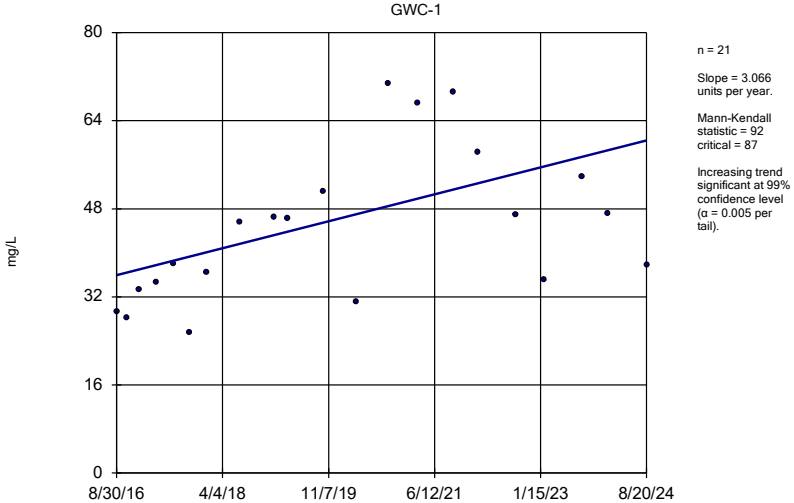
Sen's Slope Estimator

GWC-1



n = 21

Slope = 3.066 units per year.

Mann-Kendall statistic = 92 critical = 87

Increasing trend significant at 99% confidence level (α = 0.005 per tail).

Constituent: Calcium Analysis Run 12/13/2024 1:38 PM View: Appendix III - Trend Tests

Grumman Road Landfill Client: Southern Company Data: Grumman Road Landfill

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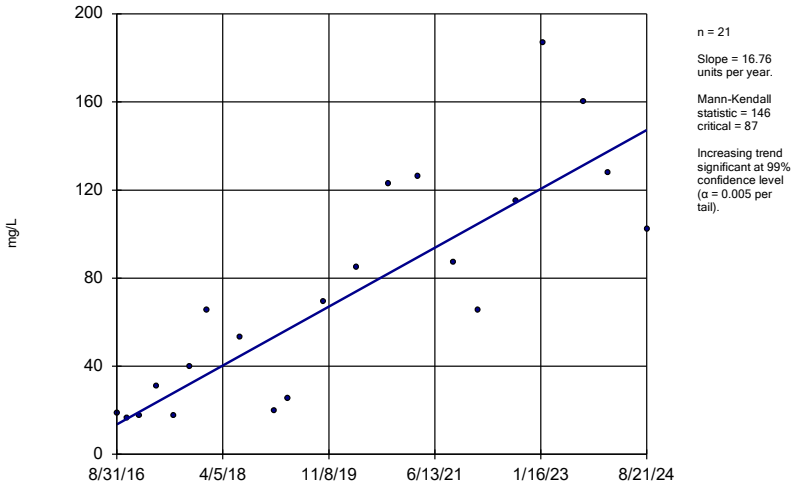
Sen's Slope Estimator

GWC-11



n = 21

Slope = 16.76 units per year.

Mann-Kendall statistic = 146 critical = 87

Increasing trend significant at 99% confidence level (α = 0.005 per tail).

Constituent: Calcium Analysis Run 12/13/2024 1:38 PM View: Appendix III - Trend Tests

Grumman Road Landfill Client: Southern Company Data: Grumman Road Landfill

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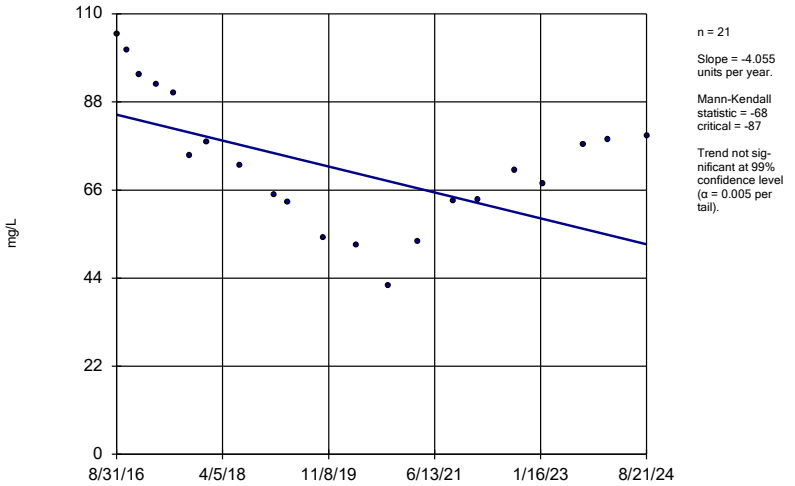
Sen's Slope Estimator

GWC-12



n = 21

Slope = -4.055 units per year.

Mann-Kendall statistic = -68 critical = -87

Trend not significant at 99% confidence level (α = 0.005 per tail).

Constituent: Calcium Analysis Run 12/13/2024 1:38 PM View: Appendix III - Trend Tests

Grumman Road Landfill Client: Southern Company Data: Grumman Road Landfill

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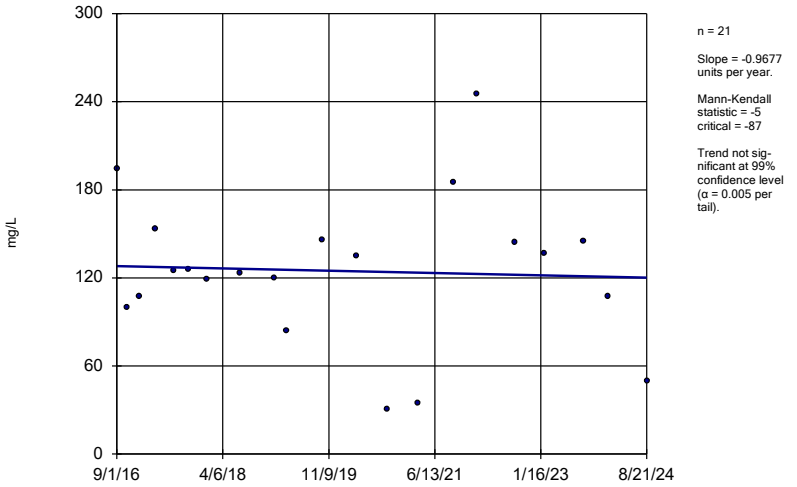
Sen's Slope Estimator

GWC-14



n = 21

Slope = -0.9677 units per year.

Mann-Kendall statistic = -5 critical = -87

Trend not significant at 99% confidence level (α = 0.005 per tail).

Constituent: Calcium Analysis Run 12/13/2024 1:38 PM View: Appendix III - Trend Tests

Grumman Road Landfill Client: Southern Company Data: Grumman Road Landfill

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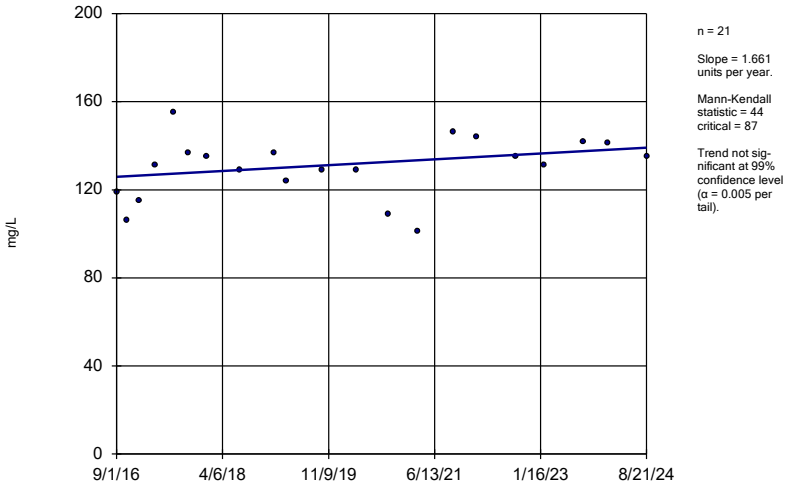
Sen's Slope Estimator

GWC-15



n = 21

Slope = 1.661 units per year.

Mann-Kendall statistic = 44 critical = 87

Trend not significant at 99% confidence level (α = 0.005 per tail).

Constituent: Calcium Analysis Run 12/13/2024 1:38 PM View: Appendix III - Trend Tests

Grumman Road Landfill Client: Southern Company Data: Grumman Road Landfill

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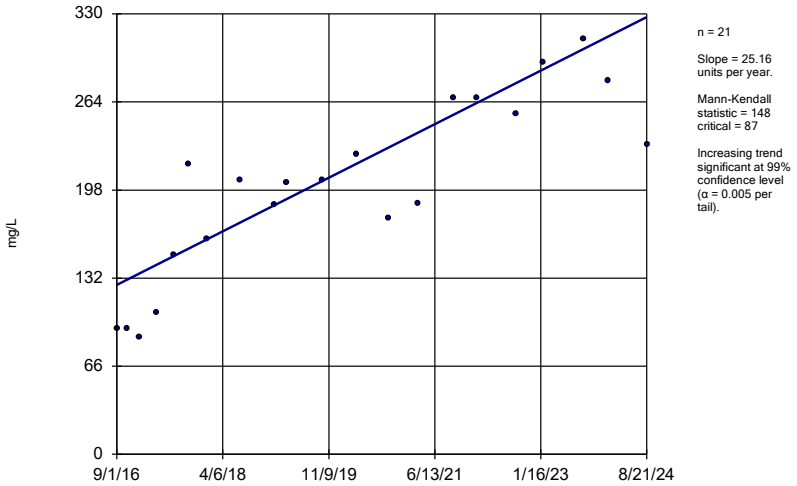
Sen's Slope Estimator

GWC-16



n = 21

Slope = 25.16 units per year.

Mann-Kendall statistic = 148 critical = 87

Increasing trend significant at 99% confidence level (α = 0.005 per tail).

Constituent: Calcium Analysis Run 12/13/2024 1:38 PM View: Appendix III - Trend Tests

Grumman Road Landfill Client: Southern Company Data: Grumman Road Landfill

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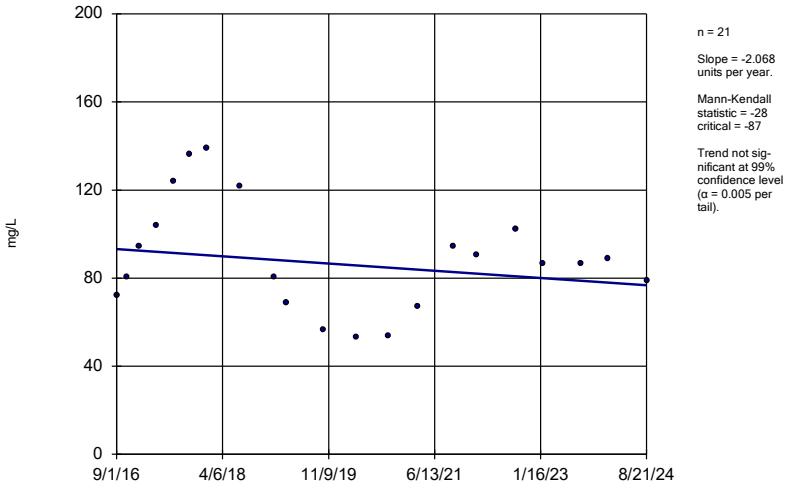
Sen's Slope Estimator

GWC-17



n = 21

Slope = -2.068 units per year.

Mann-Kendall statistic = -28 critical = -87

Trend not significant at 99% confidence level (α = 0.005 per tail).

Constituent: Calcium Analysis Run 12/13/2024 1:38 PM View: Appendix III - Trend Tests

Grumman Road Landfill Client: Southern Company Data: Grumman Road Landfill

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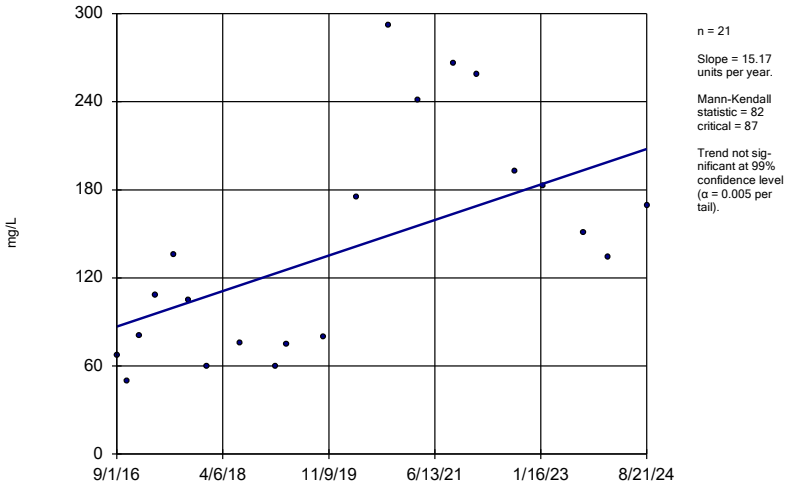
Sen's Slope Estimator

GWC-20



n = 21

Slope = 15.17 units per year.

Mann-Kendall statistic = 82 critical = 87

Trend not significant at 99% confidence level (α = 0.005 per tail).

Constituent: Calcium Analysis Run 12/13/2024 1:38 PM View: Appendix III - Trend Tests

Grumman Road Landfill Client: Southern Company Data: Grumman Road Landfill

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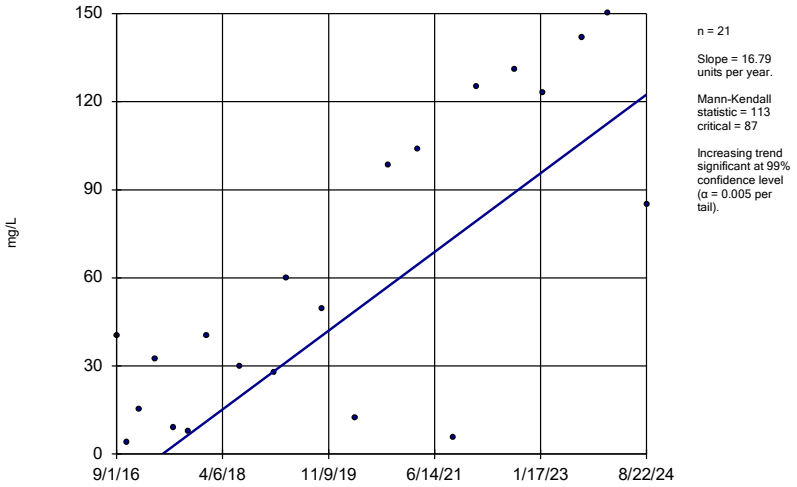
Sen's Slope Estimator

GWC-21



n = 21

Slope = 16.79 units per year.

Mann-Kendall statistic = 113 critical = 87

Increasing trend significant at 99% confidence level (α = 0.005 per tail).

Constituent: Calcium Analysis Run 12/13/2024 1:38 PM View: Appendix III - Trend Tests

Grumman Road Landfill Client: Southern Company Data: Grumman Road Landfill

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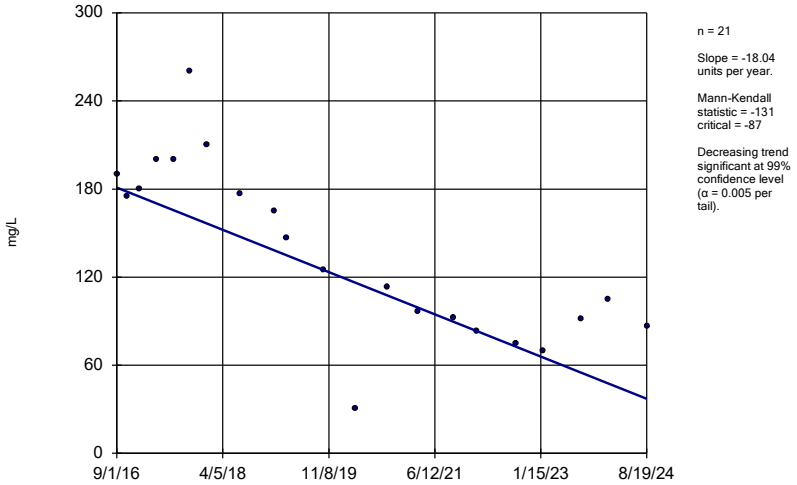
Sen's Slope Estimator

GWA-7 (bg)



n = 21

Slope = -18.04 units per year.

Mann-Kendall statistic = -131 critical = -87

Decreasing trend significant at 99% confidence level (α = 0.005 per tail).

Constituent: Chloride Analysis Run 12/13/2024 1:38 PM View: Appendix III - Trend Tests

Grumman Road Landfill Client: Southern Company Data: Grumman Road Landfill

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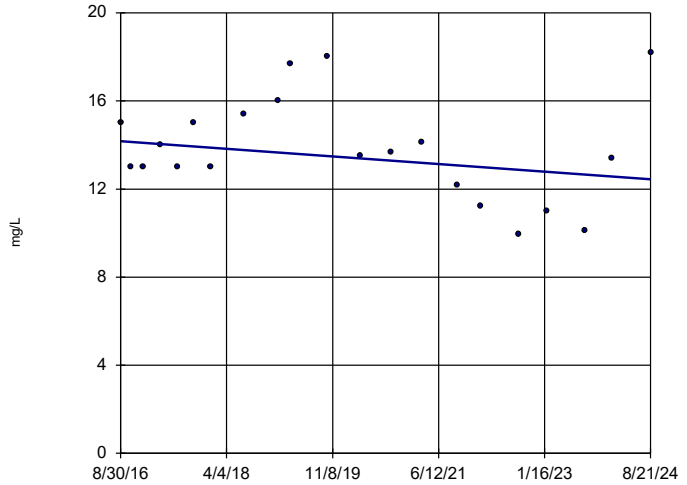
Sen's Slope Estimator

GWA-8 (bg)



n = 21

Slope = -0.2161 units per year.

Mann-Kendall statistic = -29 critical = -87

Trend not significant at 99% confidence level (α = 0.005 per tail).

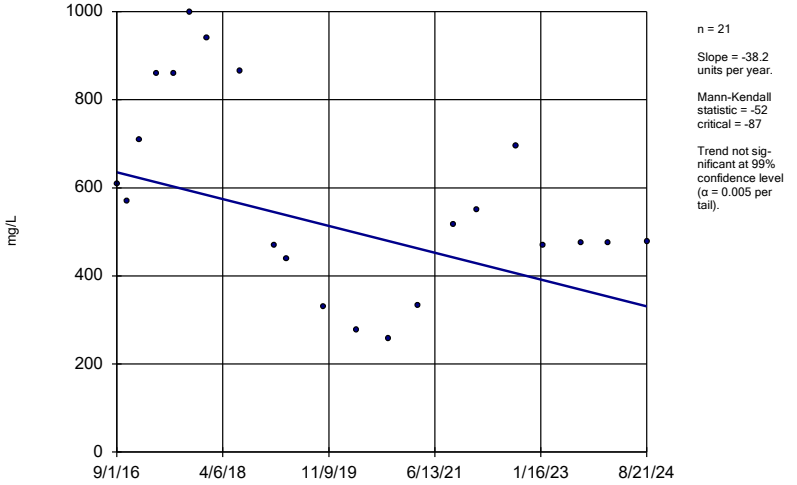
Constituent: Chloride Analysis Run 12/13/2024 1:38 PM View: Appendix III - Trend Tests

Grumman Road Landfill Client: Southern Company Data: Grumman Road Landfill

Sanitas™ v.10.0.23a Software licensed to Groundwater Stats Consulting. UG

Sen's Slope Estimator

GWC-17



n = 21

Slope = -38.2 units per year.

Mann-Kendall statistic = -52 critical = -87

Trend not significant at 99% confidence level (α = 0.005 per tail).

Constituent: Chloride Analysis Run 12/13/2024 1:38 PM View: Appendix III - Trend Tests

Grumman Road Landfill Client: Southern Company Data: Grumman Road Landfill

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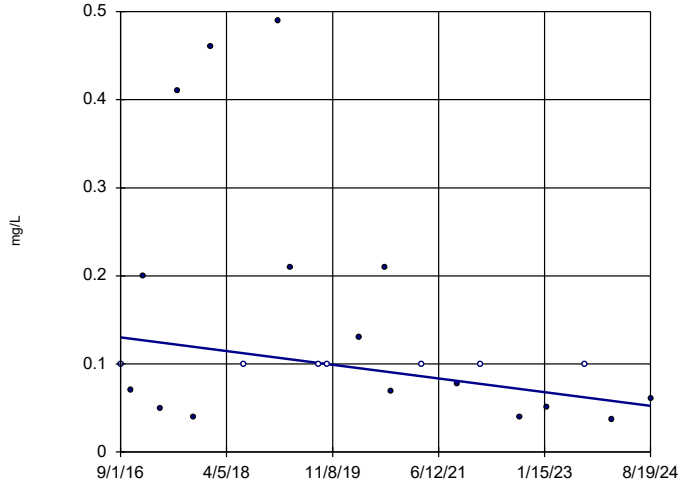
Hollow symbols indicate censored values.

Sen's Slope Estimator

GWA-7 (bg)



n = 23

Slope = -0.009727 units per year.

Mann-Kendall statistic = -69 critical = -98

Trend not significant at 99% confidence level (α = 0.005 per tail).

Constituent: Fluoride Analysis Run 12/13/2024 1:38 PM View: Appendix III - Trend Tests

Grumman Road Landfill Client: Southern Company Data: Grumman Road Landfill

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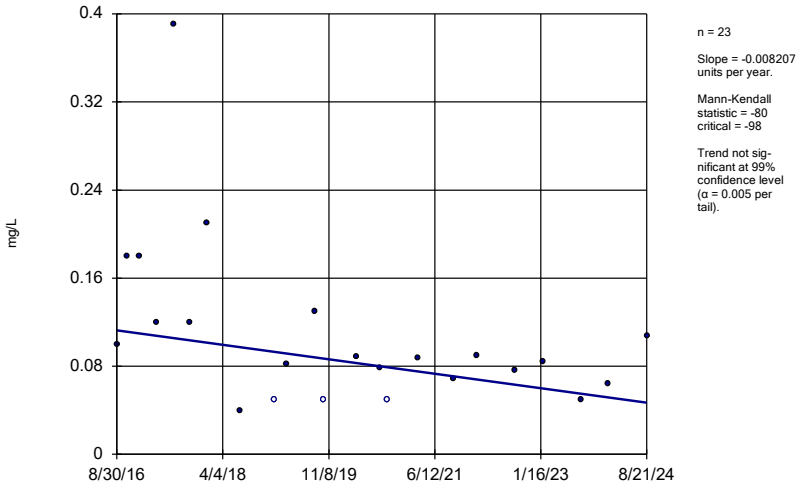
Hollow symbols indicate censored values.

Sen's Slope Estimator

GWA-8 (bg)



n = 23

Slope = -0.008207 units per year.

Mann-Kendall statistic = -80
critical = -98

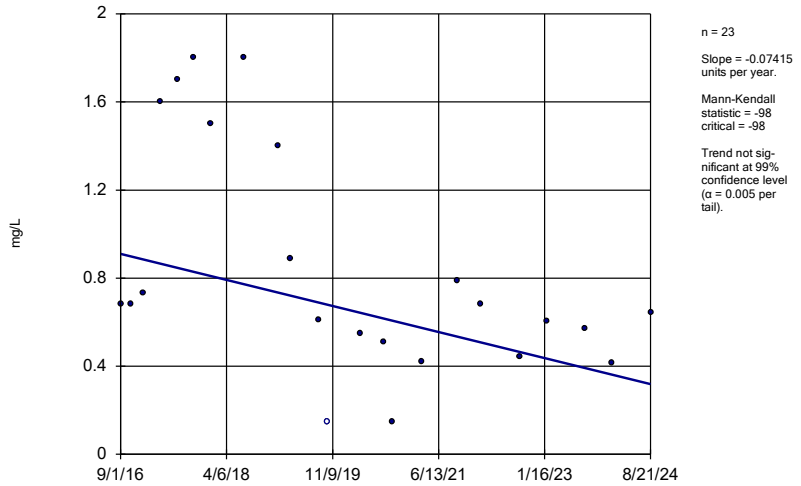
Trend not significant at 99% confidence level (α = 0.005 per tail).

Constituent: Fluoride Analysis Run 12/13/2024 1:38 PM View: Appendix III - Trend Tests
Grumman Road Landfill Client: Southern Company Data: Grumman Road Landfill

Sanitas™ v.10.0.23a Software licensed to Groundwater Stats Consulting. UG
Hollow symbols indicate censored values.

Sen's Slope Estimator

GWC-17



n = 23

Slope = -0.07415 units per year.

Mann-Kendall statistic = -98
critical = -98

Trend not significant at 99% confidence level (α = 0.005 per tail).

Constituent: Fluoride Analysis Run 12/13/2024 1:38 PM View: Appendix III - Trend Tests
Grumman Road Landfill Client: Southern Company Data: Grumman Road Landfill

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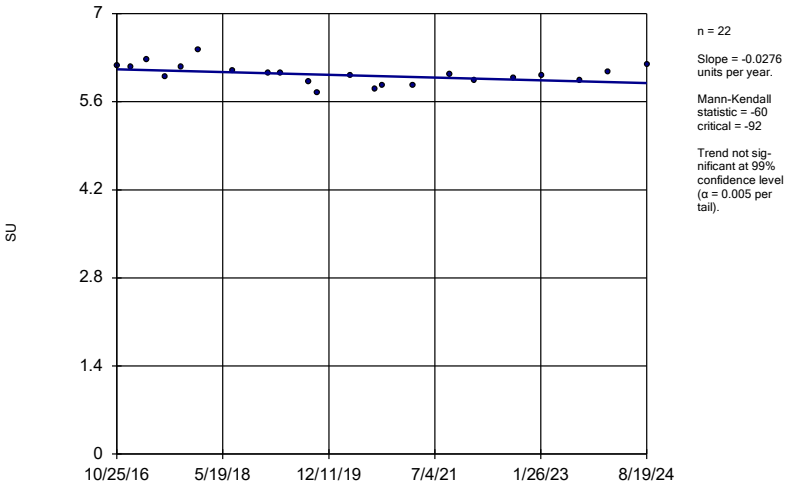
Sen's Slope Estimator

GWA-7 (bg)



n = 22

Slope = -0.0276 units per year.

Mann-Kendall statistic = -60
critical = -92

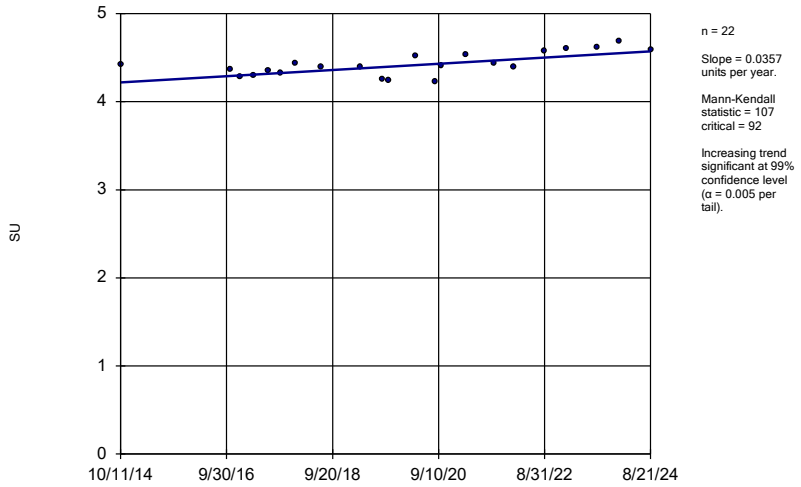
Trend not significant at 99% confidence level (α = 0.005 per tail).

Constituent: pH Analysis Run 12/13/2024 1:38 PM View: Appendix III - Trend Tests
Grumman Road Landfill Client: Southern Company Data: Grumman Road Landfill

Sanitas™ v.10.0.23a Software licensed to Groundwater Stats Consulting. UG

Sen's Slope Estimator

GWA-8 (bg)



n = 22

Slope = 0.0357 units per year.

Mann-Kendall statistic = 107
critical = 92

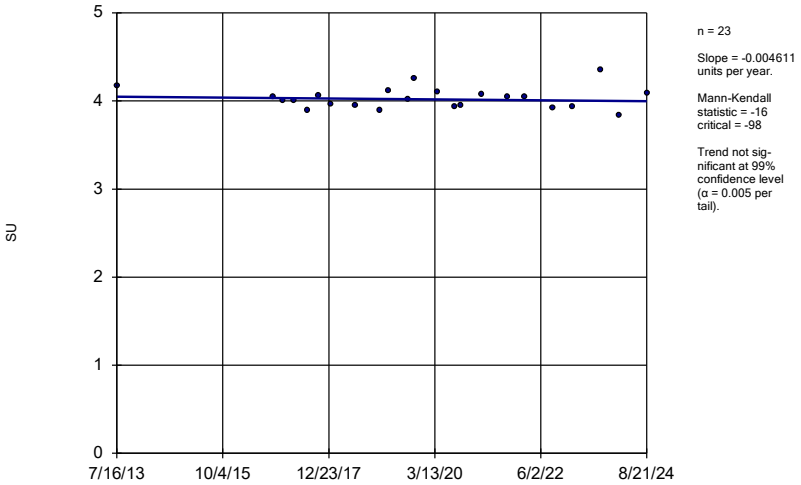
Increasing trend significant at 99% confidence level (α = 0.005 per tail).

Constituent: pH Analysis Run 12/13/2024 1:38 PM View: Appendix III - Trend Tests
Grumman Road Landfill Client: Southern Company Data: Grumman Road Landfill

Sanitas™ v.10.0.23a Software licensed to Groundwater Stats Consulting. UG

Sen's Slope Estimator

GWC-12



n = 23

Slope = -0.004611 units per year.

Mann-Kendall statistic = -16
critical = -98

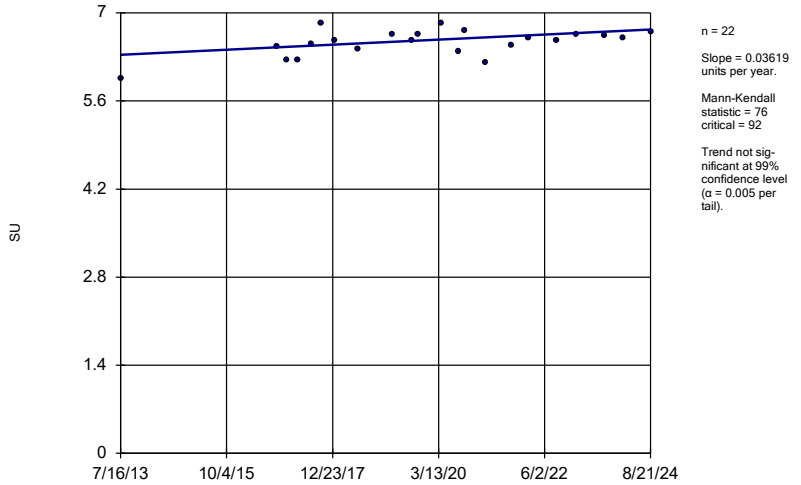
Trend not significant at 99% confidence level (α = 0.005 per tail).

Constituent: pH Analysis Run 12/13/2024 1:38 PM View: Appendix III - Trend Tests
Grumman Road Landfill Client: Southern Company Data: Grumman Road Landfill

Sanitas™ v.10.0.23a Software licensed to Groundwater Stats Consulting. UG

Sen's Slope Estimator

GWC-15



n = 22

Slope = 0.03619 units per year.

Mann-Kendall statistic = 76
critical = 92

Trend not significant at 99% confidence level (α = 0.005 per tail).

Constituent: pH Analysis Run 12/13/2024 1:38 PM View: Appendix III - Trend Tests
Grumman Road Landfill Client: Southern Company Data: Grumman Road Landfill

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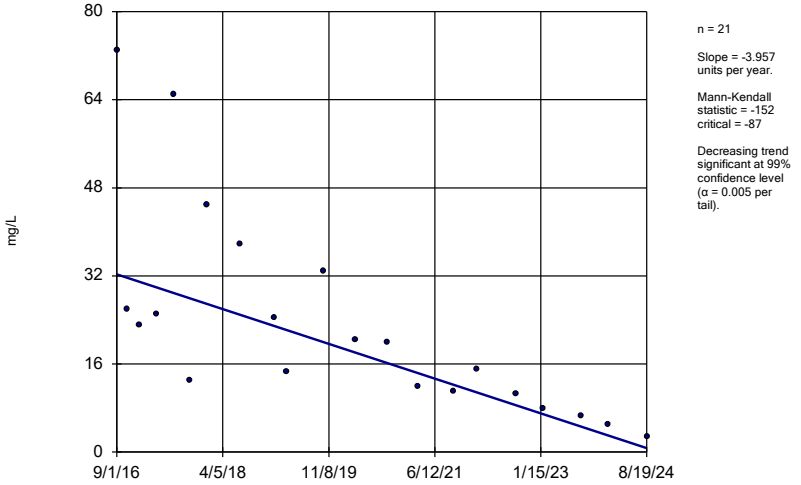
Sen's Slope Estimator

GWA-7 (bg)



n = 21

Slope = -3.957 units per year.

Mann-Kendall statistic = -152
critical = -87

Decreasing trend significant at 99% confidence level (α = 0.005 per tail).

Constituent: Sulfate Analysis Run 12/13/2024 1:38 PM View: Appendix III - Trend Tests
Grumman Road Landfill Client: Southern Company Data: Grumman Road Landfill

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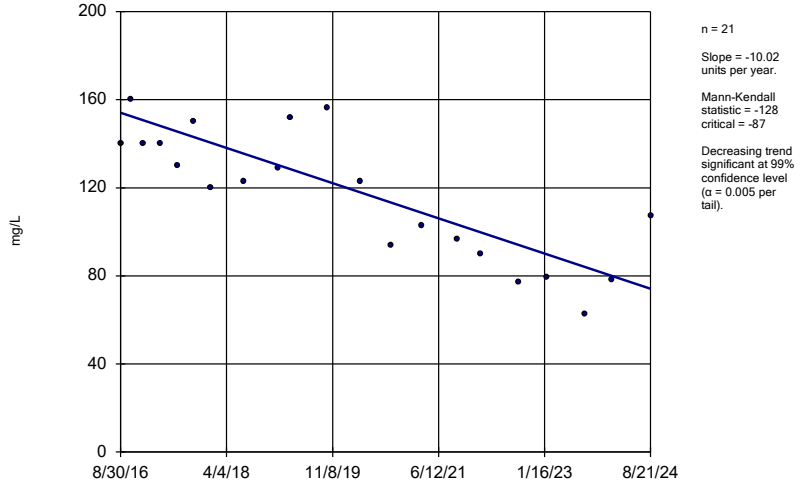
Sen's Slope Estimator

GWA-8 (bg)



n = 21

Slope = -10.02 units per year.

Mann-Kendall statistic = -128
critical = -87

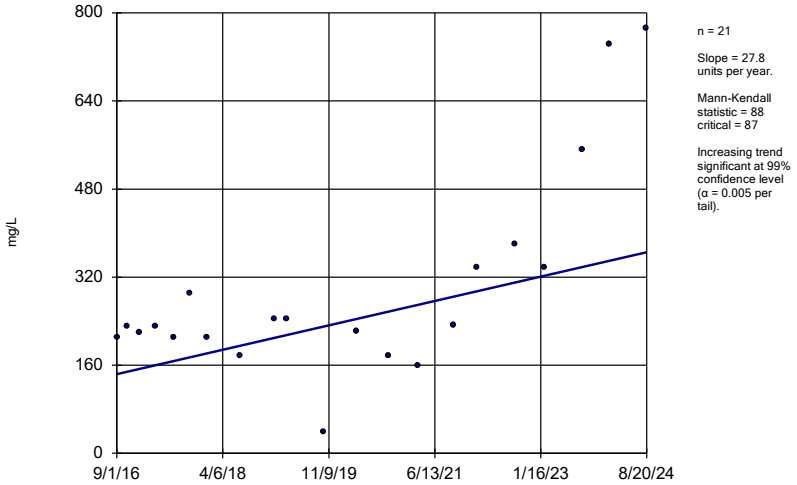
Decreasing trend significant at 99% confidence level (α = 0.005 per tail).

Constituent: Sulfate Analysis Run 12/13/2024 1:38 PM View: Appendix III - Trend Tests
Grumman Road Landfill Client: Southern Company Data: Grumman Road Landfill

Sanitas™ v.10.0.23a Software licensed to Groundwater Stats Consulting. UG

Sen's Slope Estimator

GWB-4R



n = 21

Slope = 27.8 units per year.

Mann-Kendall statistic = 88
critical = 87

Increasing trend significant at 99% confidence level (α = 0.005 per tail).

Constituent: Sulfate Analysis Run 12/13/2024 1:38 PM View: Appendix III - Trend Tests
Grumman Road Landfill Client: Southern Company Data: Grumman Road Landfill

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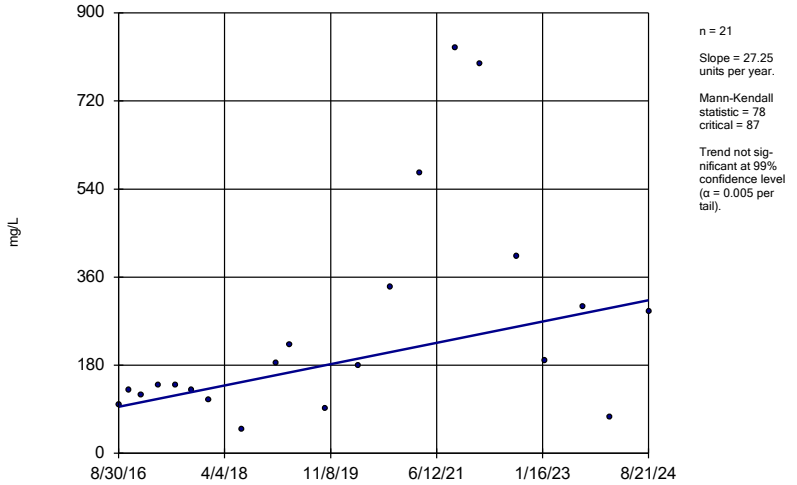
Sen's Slope Estimator

GWB-5R



n = 21

Slope = 27.25 units per year.

Mann-Kendall statistic = 78
critical = 87

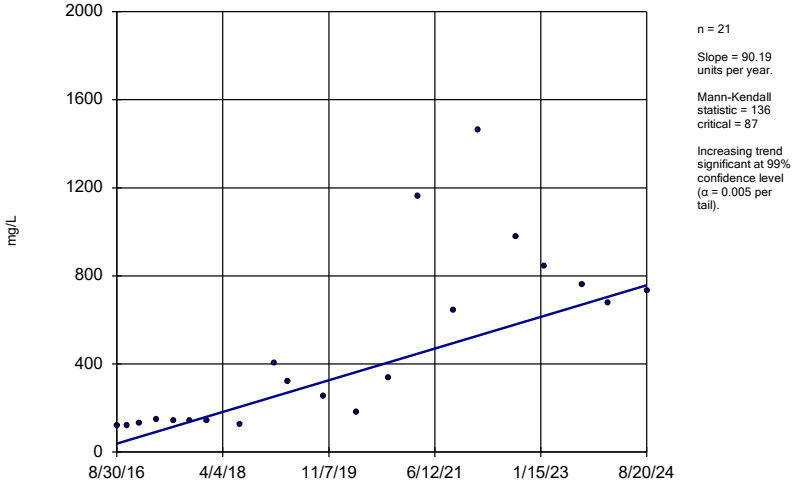
Trend not significant at 99% confidence level (α = 0.005 per tail).

Constituent: Sulfate Analysis Run 12/13/2024 1:38 PM View: Appendix III - Trend Tests
Grumman Road Landfill Client: Southern Company Data: Grumman Road Landfill

Sanitas™ v.10.0.23a Software licensed to Groundwater Stats Consulting. UG

Sen's Slope Estimator

GWB-6R



n = 21

Slope = 90.19 units per year.

Mann-Kendall statistic = 136
critical = 87

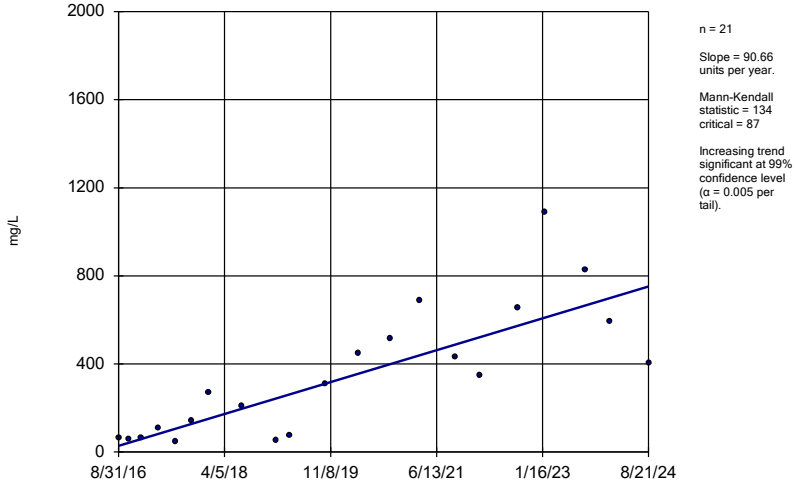
Increasing trend significant at 99% confidence level (α = 0.005 per tail).

Constituent: Sulfate Analysis Run 12/13/2024 1:38 PM View: Appendix III - Trend Tests
Grumman Road Landfill Client: Southern Company Data: Grumman Road Landfill

Sanitas™ v.10.0.23a Software licensed to Groundwater Stats Consulting. UG

Sen's Slope Estimator

GWC-11



n = 21

Slope = 90.66 units per year.

Mann-Kendall statistic = 134
critical = 87

Increasing trend significant at 99% confidence level (α = 0.005 per tail).

Constituent: Sulfate Analysis Run 12/13/2024 1:38 PM View: Appendix III - Trend Tests
Grumman Road Landfill Client: Southern Company Data: Grumman Road Landfill

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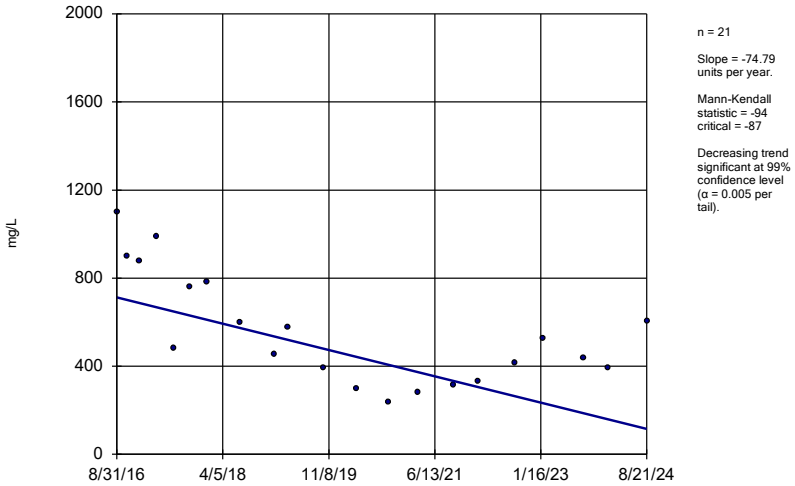
Sen's Slope Estimator

GWC-12



n = 21

Slope = -74.79 units per year.

Mann-Kendall statistic = -94 critical = -87

Decreasing trend significant at 99% confidence level (α = 0.005 per tail).

Constituent: Sulfate Analysis Run 12/13/2024 1:38 PM View: Appendix III - Trend Tests

Grumman Road Landfill Client: Southern Company Data: Grumman Road Landfill

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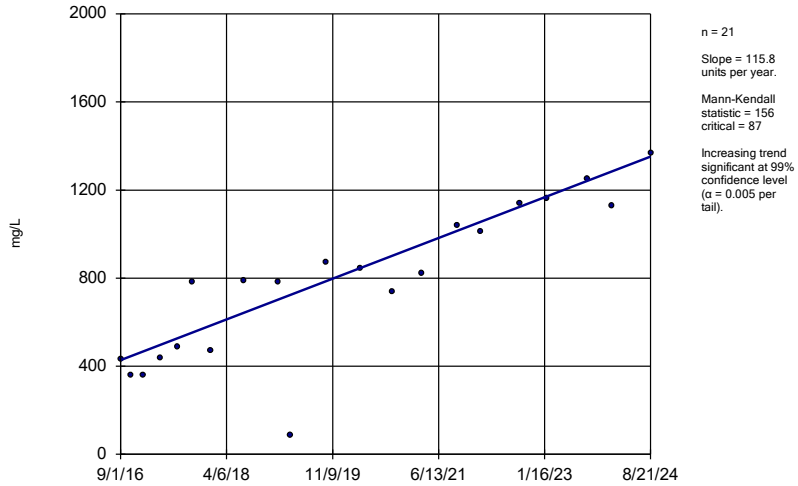
Sen's Slope Estimator

GWC-16



n = 21

Slope = 115.8 units per year.

Mann-Kendall statistic = 156 critical = 87

Increasing trend significant at 99% confidence level (α = 0.005 per tail).

Constituent: Sulfate Analysis Run 12/13/2024 1:38 PM View: Appendix III - Trend Tests

Grumman Road Landfill Client: Southern Company Data: Grumman Road Landfill

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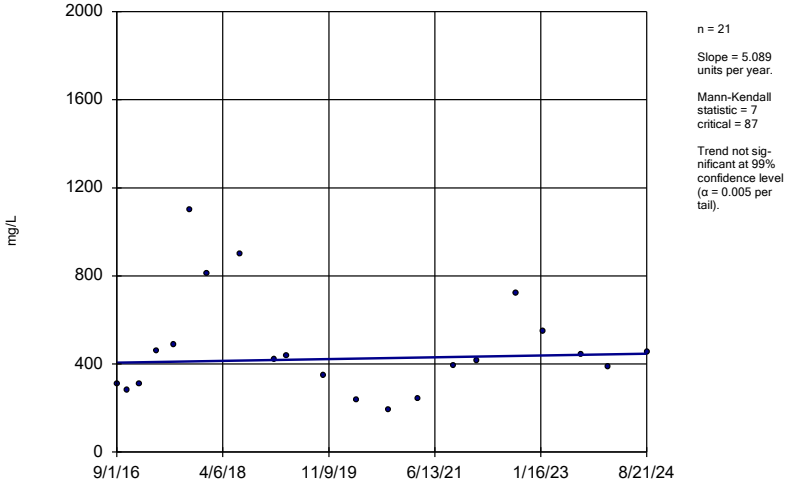
Sen's Slope Estimator

GWC-17



n = 21

Slope = 5.089 units per year.

Mann-Kendall statistic = 7 critical = 87

Trend not sig-nificant at 99% confidence level (α = 0.005 per tail).

Constituent: Sulfate Analysis Run 12/13/2024 1:38 PM View: Appendix III - Trend Tests

Grumman Road Landfill Client: Southern Company Data: Grumman Road Landfill

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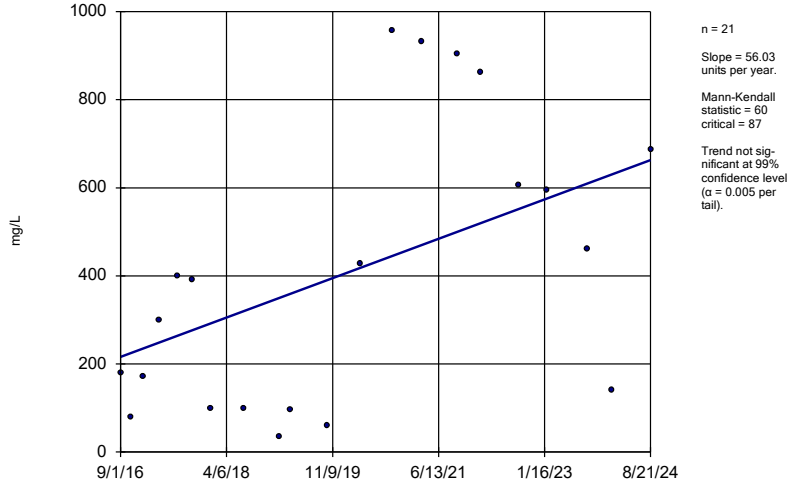
Sen's Slope Estimator

GWC-20



n = 21

Slope = 56.03 units per year.

Mann-Kendall statistic = 60 critical = 87

Trend not sig-nificant at 99% confidence level (α = 0.005 per tail).

Constituent: Sulfate Analysis Run 12/13/2024 1:38 PM View: Appendix III - Trend Tests

Grumman Road Landfill Client: Southern Company Data: Grumman Road Landfill

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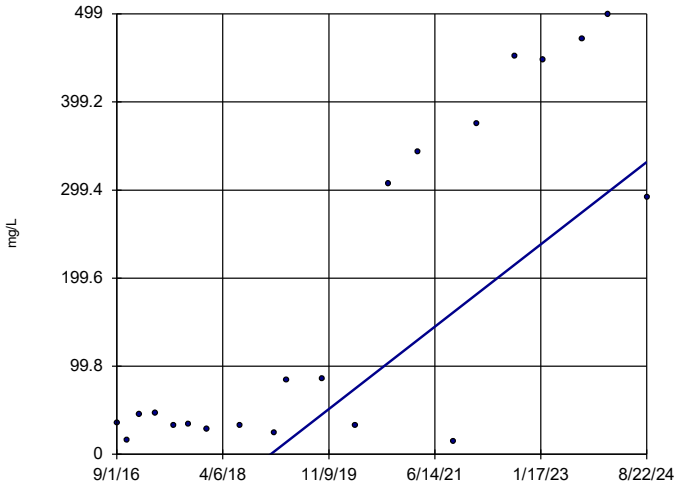
Sen's Slope Estimator

GWC-21



n = 21

Slope = 58.5 units per year.

Mann-Kendall statistic = 107
critical = 87

Increasing trend significant at 99% confidence level (α = 0.005 per tail).

Constituent: Sulfate Analysis Run 12/13/2024 1:38 PM View: Appendix III - Trend Tests

Grumman Road Landfill Client: Southern Company Data: Grumman Road Landfill

FIGURE H.

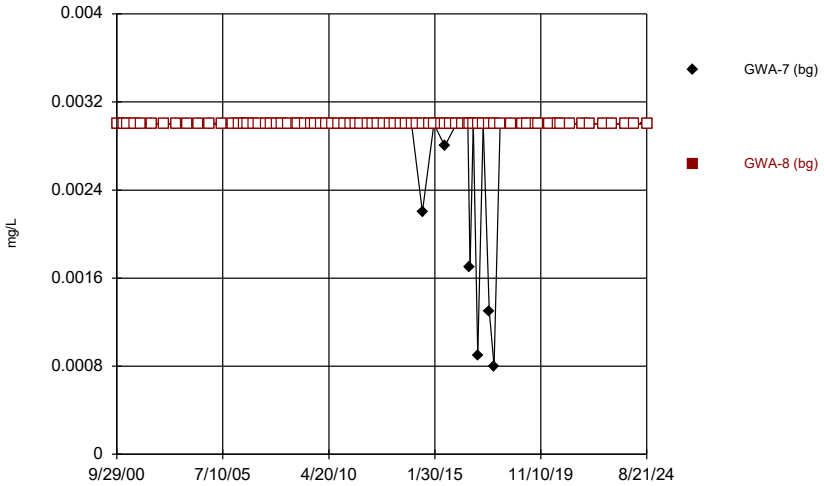
Upper Tolerance Limits Summary Table

Grumman Road Landfill Client: Southern Company Data: Grumman Road Landfill Printed 12/13/2024, 1:43 PM

Constituent	Upper Lim.	Bg N	Bg Mean	Std. Dev.	%NDs	ND Adj.	Transform	Alpha	Method
Antimony (mg/L)	0.003	135	n/a	n/a	95.56	n/a	n/a	0.0009833	NP Inter(NDs)
Arsenic (mg/L)	0.0287	135	n/a	n/a	74.81	n/a	n/a	0.0009833	NP Inter(NDs)
Barium (mg/L)	0.236	133	n/a	n/a	0	n/a	n/a	0.00109	NP Inter(normality)
Beryllium (mg/L)	0.0017	55	n/a	n/a	56.36	n/a	n/a	0.05954	NP Inter(NDs)
Cadmium (mg/L)	0.001	53	n/a	n/a	96.23	n/a	n/a	0.06597	NP Inter(NDs)
Chromium (mg/L)	0.068	134	n/a	n/a	61.94	n/a	n/a	0.001035	NP Inter(NDs)
Cobalt (mg/L)	0.0102	53	n/a	n/a	45.28	n/a	n/a	0.06597	NP Inter(normality)
Combined Radium 226 + 228 (pCi/L)	11.27	39	1.519	0.3388	0	None	x^(1/3)	0.05	Inter
Fluoride (mg/L)	0.49	46	n/a	n/a	21.74	n/a	n/a	0.09447	NP Inter(normality)
Lead (mg/L)	0.013	131	n/a	n/a	72.52	n/a	n/a	0.001207	NP Inter(NDs)
Lithium (mg/L)	0.03	42	n/a	n/a	78.57	n/a	n/a	0.116	NP Inter(NDs)
Mercury (mg/L)	0.0002	36	n/a	n/a	86.11	n/a	n/a	0.1578	NP Inter(NDs)
Molybdenum (mg/L)	0.0098	42	n/a	n/a	80.95	n/a	n/a	0.116	NP Inter(NDs)
Selenium (mg/L)	0.0438	135	n/a	n/a	81.48	n/a	n/a	0.0009833	NP Inter(NDs)
Thallium (mg/L)	0.002	74	n/a	n/a	94.59	n/a	n/a	0.02247	NP Inter(NDs)
Vanadium (mg/L)	0.24	123	n/a	n/a	62.6	n/a	n/a	0.00182	NP Inter(NDs)
Zinc (mg/L)	0.16	127	n/a	n/a	29.13	n/a	n/a	0.001482	NP Inter(normality)

Sanitas™ v.10.0.23a Software licensed to Groundwater Stats Consulting. UG
Hollow symbols indicate censored values.

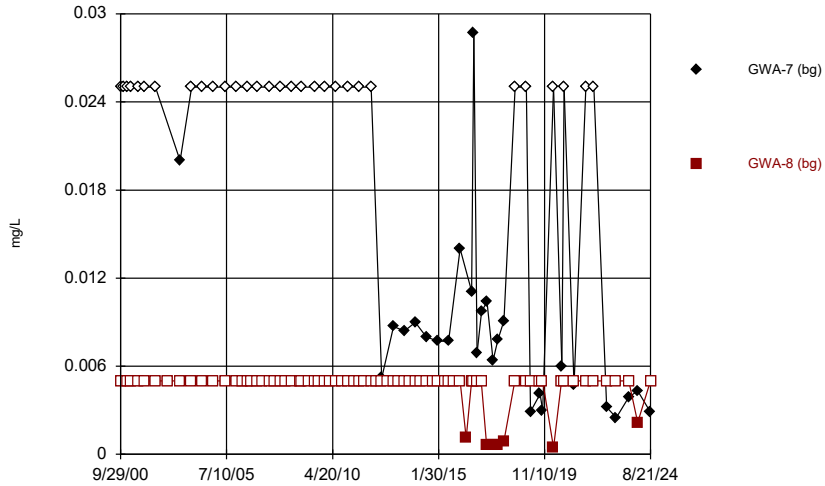
Time Series



Constituent: Antimony Analysis Run 12/13/2024 1:40 PM View: Appendix IV - UTLs
Grumman Road Landfill Client: Southern Company Data: Grumman Road Landfill

Sanitas™ v.10.0.23a Software licensed to Groundwater Stats Consulting. UG
Hollow symbols indicate censored values.

Time Series



Constituent: Arsenic Analysis Run 12/13/2024 1:40 PM View: Appendix IV - UTLs
Grumman Road Landfill Client: Southern Company Data: Grumman Road Landfill

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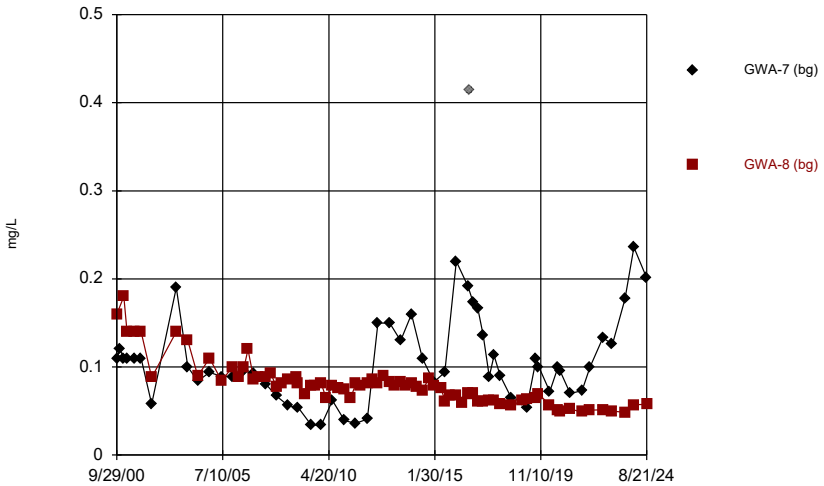
Time Series



Constituent: Barium Analysis Run 12/13/2024 1:40 PM View: Appendix IV - UTLs
Grumman Road Landfill Client: Southern Company Data: Grumman Road Landfill

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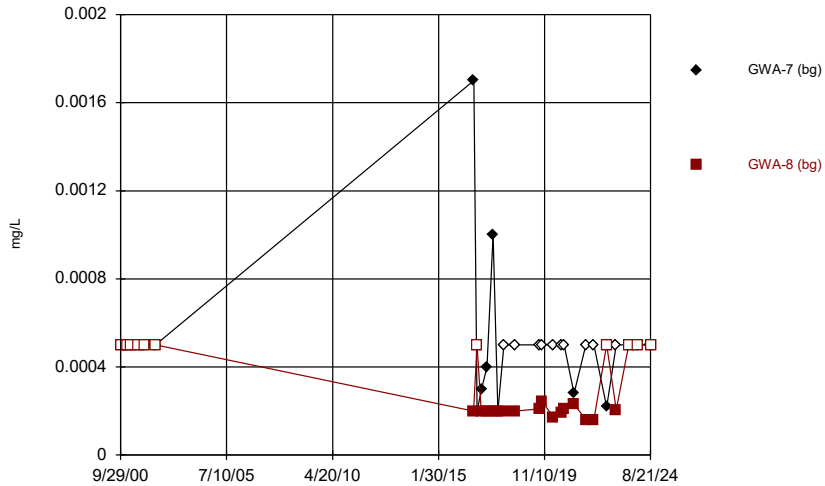
Hollow symbols indicate censored values.

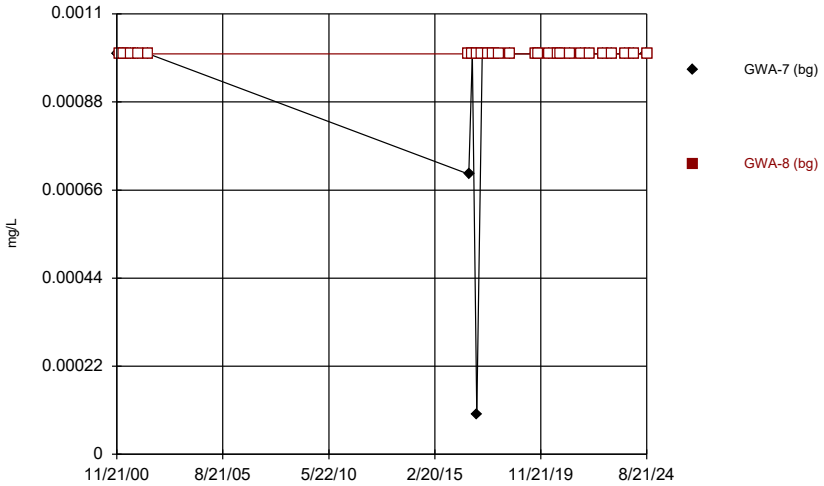
Time Series



Constituent: Beryllium Analysis Run 12/13/2024 1:40 PM View: Appendix IV - UTLs
Grumman Road Landfill Client: Southern Company Data: Grumman Road Landfill

Sanitas™ v.10.0.23a Software licensed to Groundwater Stats Consulting. UG
Hollow symbols indicate censored values.

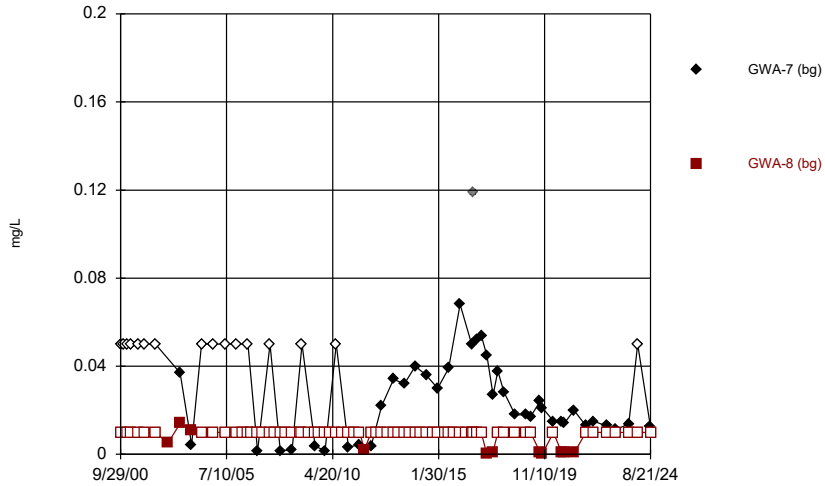
Time Series



Constituent: Cadmium Analysis Run 12/13/2024 1:41 PM View: Appendix IV - UTLs
Grumman Road Landfill Client: Southern Company Data: Grumman Road Landfill

Sanitas™ v.10.0.23a Software licensed to Groundwater Stats Consulting. UG
Hollow symbols indicate censored values.

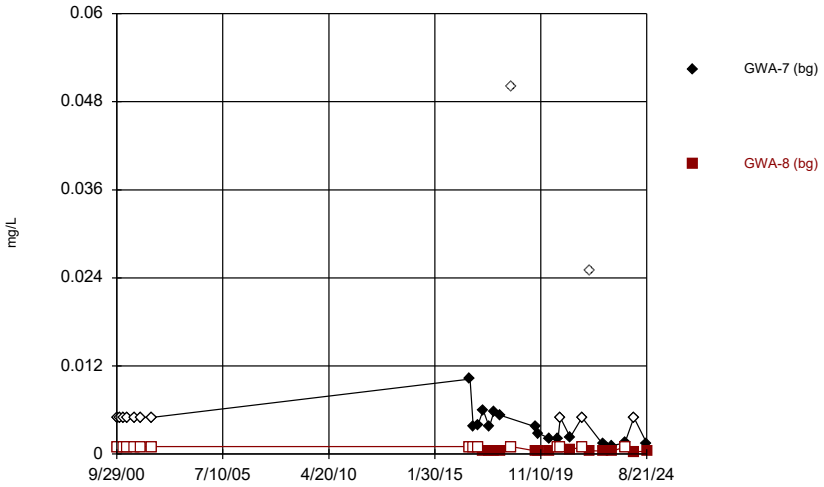
Time Series



Constituent: Chromium Analysis Run 12/13/2024 1:41 PM View: Appendix IV - UTLs
Grumman Road Landfill Client: Southern Company Data: Grumman Road Landfill

Sanitas™ v.10.0.23a Software licensed to Groundwater Stats Consulting. UG
Hollow symbols indicate censored values.

Time Series



Constituent: Cobalt Analysis Run 12/13/2024 1:41 PM View: Appendix IV - UTLs
Grumman Road Landfill Client: Southern Company Data: Grumman Road Landfill

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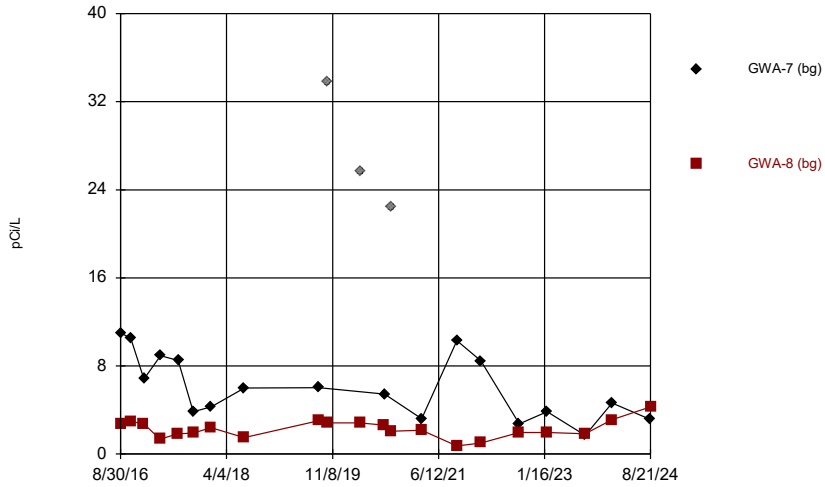
Time Series



Constituent: Combined Radium 226 + 228 Analysis Run 12/13/2024 1:41 PM View: Appendix IV - UTLs
Grumman Road Landfill Client: Southern Company Data: Grumman Road Landfill

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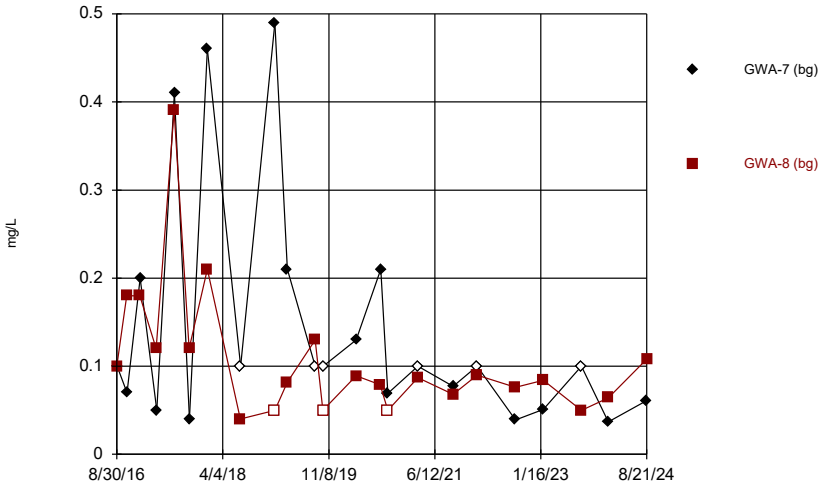
Hollow symbols indicate censored values.

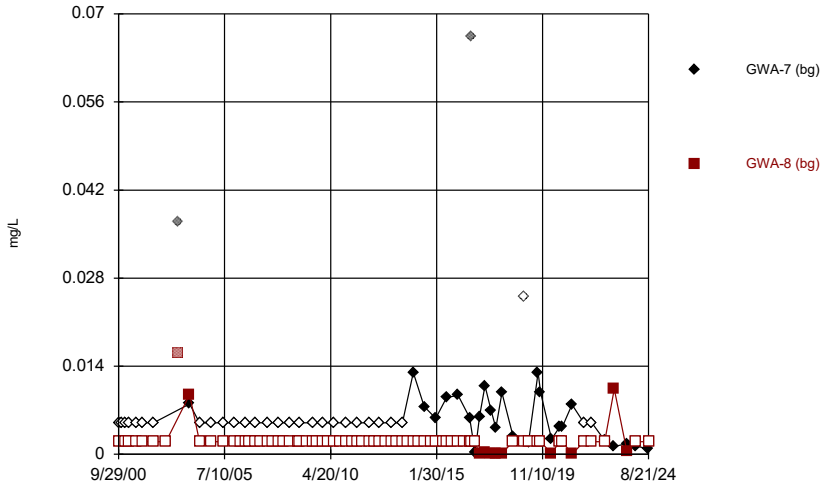
Time Series



Constituent: Fluoride Analysis Run 12/13/2024 1:41 PM View: Appendix IV - UTLs
Grumman Road Landfill Client: Southern Company Data: Grumman Road Landfill

Sanitas™ v.10.0.23a Software licensed to Groundwater Stats Consulting. UG
Hollow symbols indicate censored values.

Time Series



Constituent: Lead Analysis Run 12/13/2024 1:41 PM View: Appendix IV - UTLs
Grumman Road Landfill Client: Southern Company Data: Grumman Road Landfill

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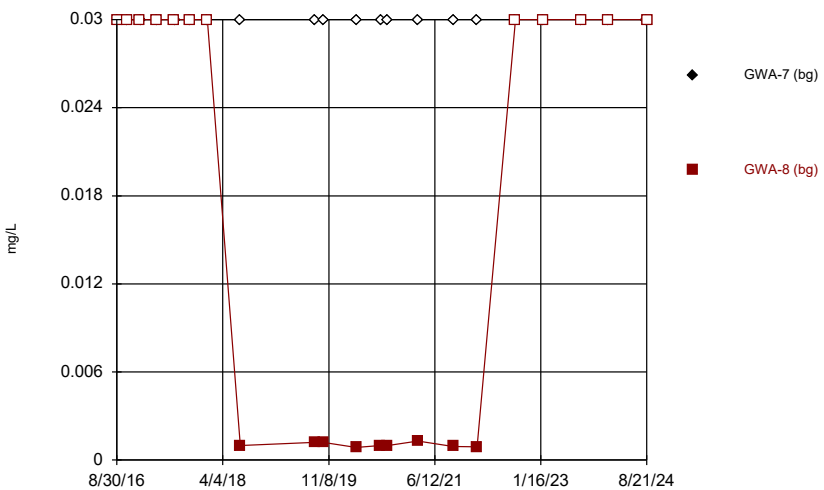
Hollow symbols indicate censored values.

Time Series



Constituent: Lithium Analysis Run 12/13/2024 1:41 PM View: Appendix IV - UTLs
Grumman Road Landfill Client: Southern Company Data: Grumman Road Landfill

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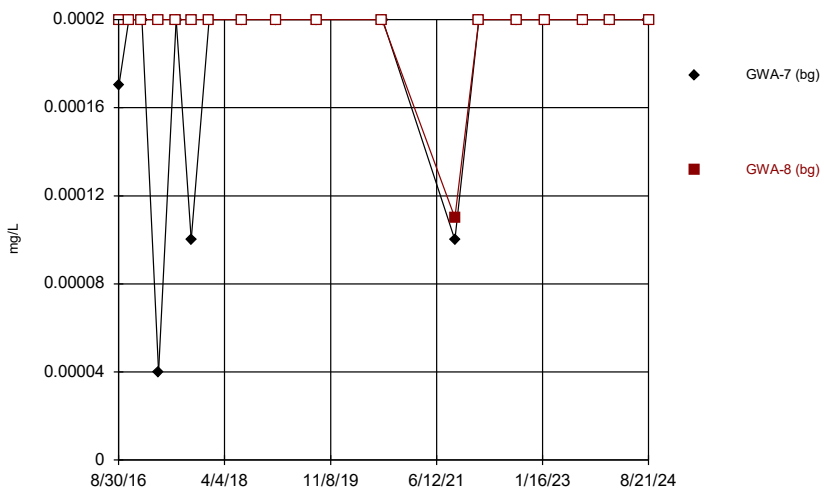
Hollow symbols indicate censored values.

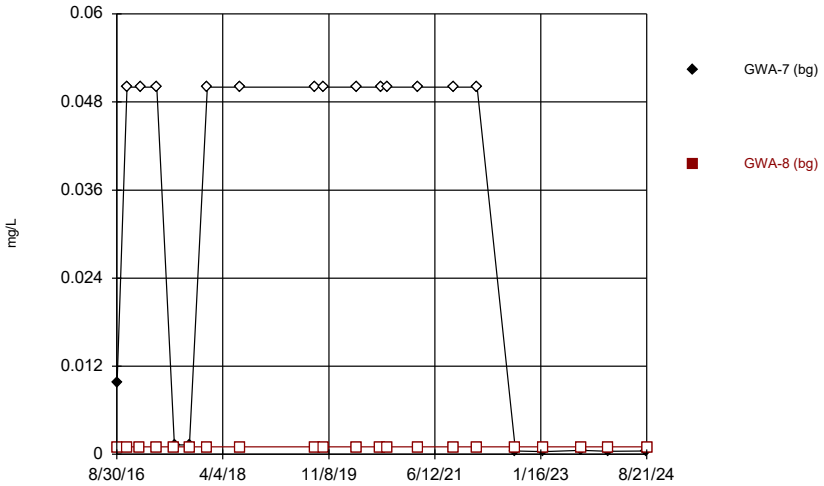
Time Series



Constituent: Mercury Analysis Run 12/13/2024 1:41 PM View: Appendix IV - UTLs
Grumman Road Landfill Client: Southern Company Data: Grumman Road Landfill

Sanitas™ v.10.0.23a Software licensed to Groundwater Stats Consulting. UG
Hollow symbols indicate censored values.

Time Series



Constituent: Molybdenum Analysis Run 12/13/2024 1:41 PM View: Appendix IV - UTLs
Grumman Road Landfill Client: Southern Company Data: Grumman Road Landfill

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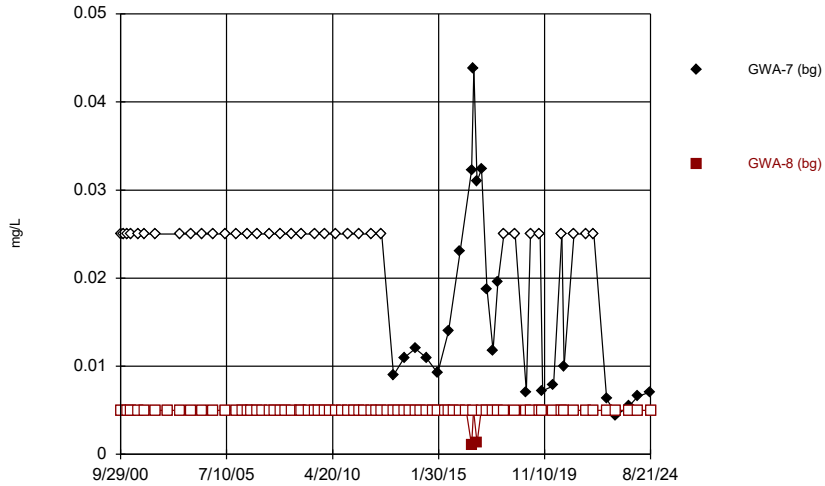
Hollow symbols indicate censored values.

Time Series



Constituent: Selenium Analysis Run 12/13/2024 1:41 PM View: Appendix IV - UTLs
Grumman Road Landfill Client: Southern Company Data: Grumman Road Landfill

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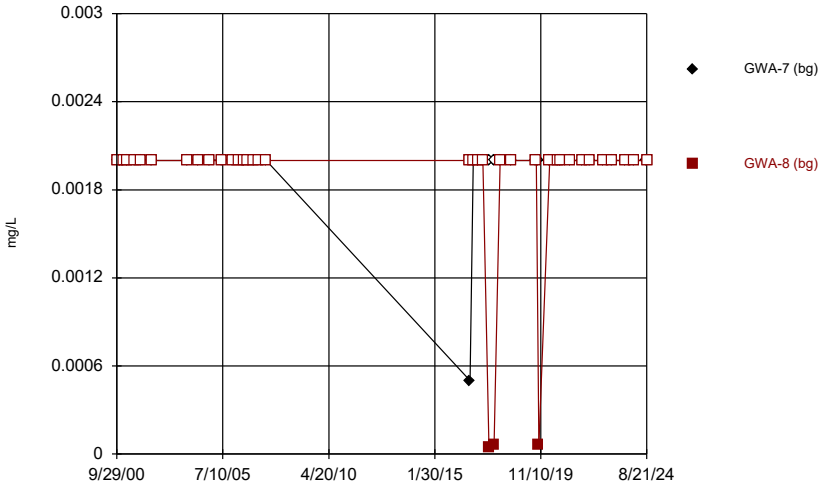
Hollow symbols indicate censored values.

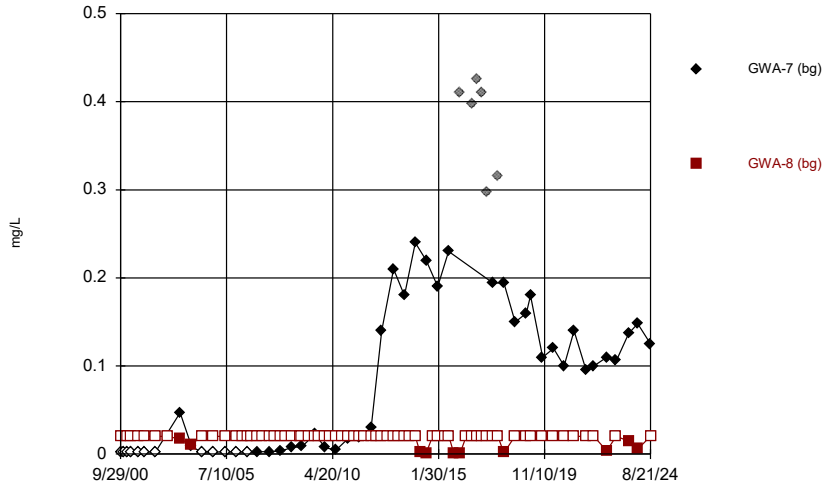
Time Series



Constituent: Thallium Analysis Run 12/13/2024 1:41 PM View: Appendix IV - UTLs
Grumman Road Landfill Client: Southern Company Data: Grumman Road Landfill

Sanitas™ v.10.0.23a Software licensed to Groundwater Stats Consulting. UG
Hollow symbols indicate censored values.

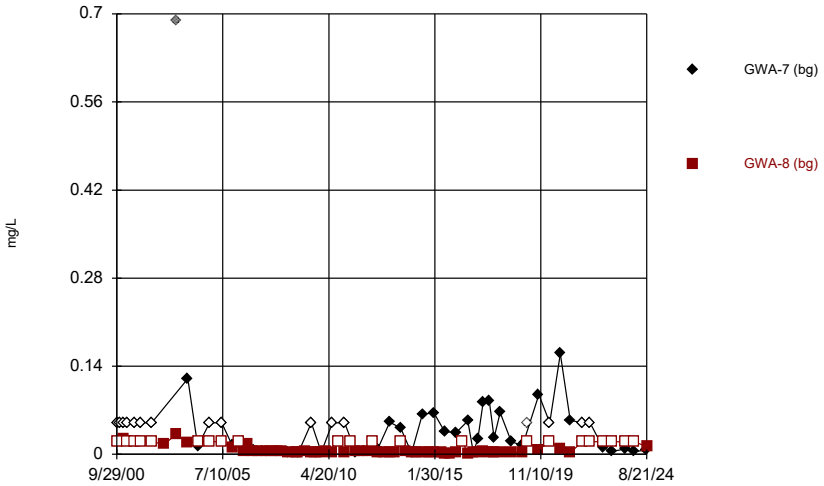
Time Series



Constituent: Vanadium Analysis Run 12/13/2024 1:41 PM View: Appendix IV - UTLs
Grumman Road Landfill Client: Southern Company Data: Grumman Road Landfill

Sanitas™ v.10.0.23a Software licensed to Groundwater Stats Consulting. UG
Hollow symbols indicate censored values.

Time Series



Constituent: Zinc Analysis Run 12/13/2024 1:41 PM View: Appendix IV - UTLs

Grumman Road Landfill Client: Southern Company Data: Grumman Road Landfill

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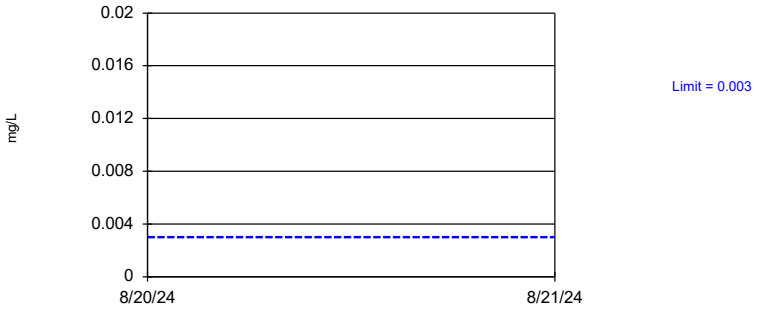
Tolerance Limit

Interwell Non-parametric



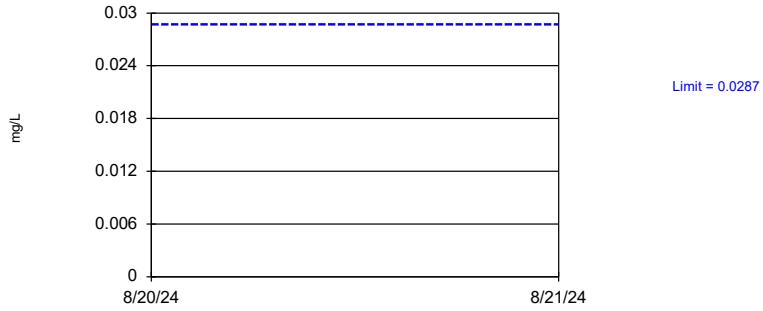
Non-parametric test used in lieu of parametric tolerance limit because censored data exceeded 50%. Limit is highest of 135 background values. 95.56% NDs. 96.68% coverage at alpha=0.01; 97.85% coverage at alpha=0.05; 99.41% coverage at alpha=0.5. Report alpha = 0.0009833.

Constituent: Antimony Analysis Run 12/13/2024 1:42 PM View: Appendix IV - UTLs
Grumman Road Landfill Client: Southern Company Data: Grumman Road Landfill

Sanitas™ v.10.0.23a Software licensed to Groundwater Stats Consulting. UG

Tolerance Limit

Interwell Non-parametric



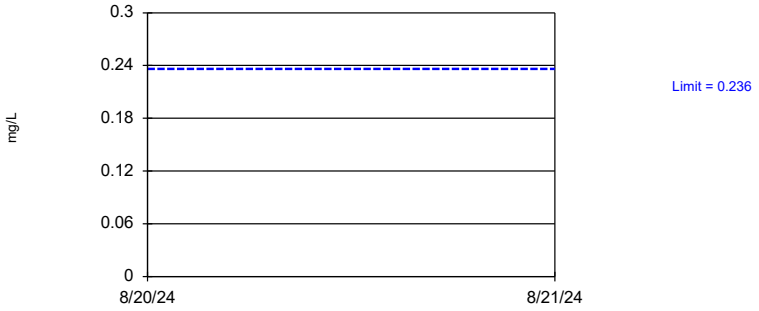
Non-parametric test used in lieu of parametric tolerance limit because censored data exceeded 50%. Limit is highest of 135 background values. 74.81% NDs. 96.68% coverage at alpha=0.01; 97.85% coverage at alpha=0.05; 99.41% coverage at alpha=0.5. Report alpha = 0.0009833.

Constituent: Arsenic Analysis Run 12/13/2024 1:42 PM View: Appendix IV - UTLs
Grumman Road Landfill Client: Southern Company Data: Grumman Road Landfill

Sanitas™ v.10.0.23a Software licensed to Groundwater Stats Consulting. UG

Tolerance Limit

Interwell Non-parametric



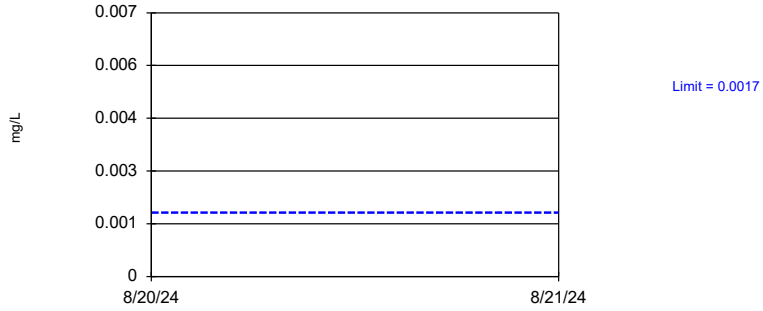
Non-parametric test used in lieu of parametric tolerance limit because the Chi Squared normality test showed the data to be non-normal at the 0.01 alpha level. Limit is highest of 133 background values. 96.68% coverage at alpha=0.01; 97.85% coverage at alpha=0.05; 99.41% coverage at alpha=0.5. Report alpha = 0.00109.

Constituent: Barium Analysis Run 12/13/2024 1:42 PM View: Appendix IV - UTLs
Grumman Road Landfill Client: Southern Company Data: Grumman Road Landfill

Sanitas™ v.10.0.23a Software licensed to Groundwater Stats Consulting. UG

Tolerance Limit

Interwell Non-parametric



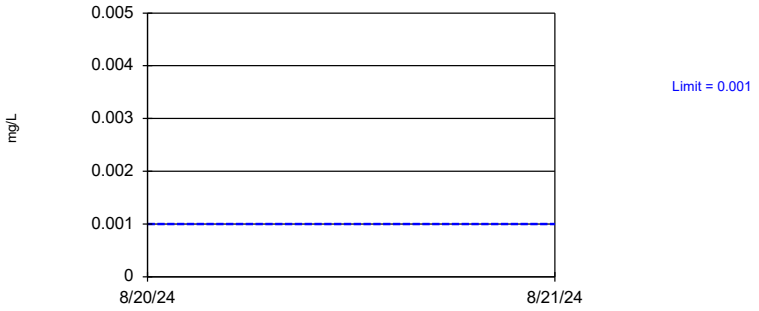
Non-parametric test used in lieu of parametric tolerance limit because censored data exceeded 50%. Limit is highest of 55 background values. 56.36% NDs. 91.99% coverage at alpha=0.01; 94.73% coverage at alpha=0.05; 98.63% coverage at alpha=0.5. Report alpha = 0.05954.

Constituent: Beryllium Analysis Run 12/13/2024 1:42 PM View: Appendix IV - UTLs
Grumman Road Landfill Client: Southern Company Data: Grumman Road Landfill

Sanitas™ v.10.0.23a Software licensed to Groundwater Stats Consulting. UG

Tolerance Limit

Interwell Non-parametric



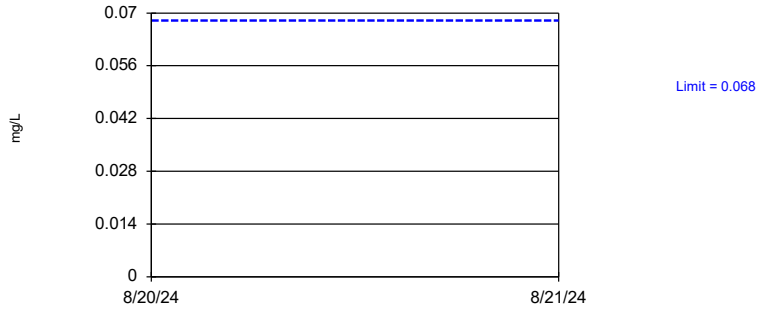
Non-parametric test used in lieu of parametric tolerance limit because censored data exceeded 50%. Limit is highest of 53 background values. 96.23% NDs. 91.6% coverage at alpha=0.01; 94.34% coverage at alpha=0.05; 98.63% coverage at alpha=0.5. Report alpha = 0.06597.

Constituent: Cadmium Analysis Run 12/13/2024 1:42 PM View: Appendix IV - UTLs
Grumman Road Landfill Client: Southern Company Data: Grumman Road Landfill

Sanitas™ v.10.0.23a Software licensed to Groundwater Stats Consulting. UG

Tolerance Limit

Interwell Non-parametric



Non-parametric test used in lieu of parametric tolerance limit because censored data exceeded 50%. Limit is highest of 134 background values. 61.94% NDs. 96.68% coverage at alpha=0.01; 97.85% coverage at alpha=0.05; 99.41% coverage at alpha=0.5. Report alpha = 0.001035.

Constituent: Chromium Analysis Run 12/13/2024 1:42 PM View: Appendix IV - UTLs
Grumman Road Landfill Client: Southern Company Data: Grumman Road Landfill

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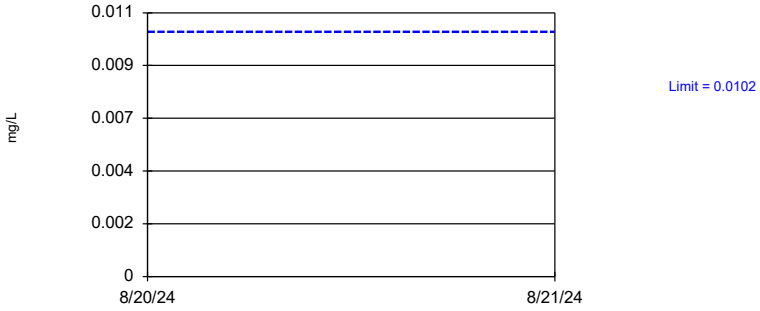
Tolerance Limit

Interwell Non-parametric



Non-parametric test used in lieu of parametric tolerance limit because the Shapiro Francia normality test showed the data to be non-normal at the 0.01 alpha level. Limit is highest of 53 background values. 45.28% NDs. 91.6% coverage at alpha=0.01; 94.34% coverage at alpha=0.05; 98.63% coverage at alpha=0.5. Report alpha = 0.06597.

Constituent: Cobalt Analysis Run 12/13/2024 1:42 PM View: Appendix IV - UTLs
Grumman Road Landfill Client: Southern Company Data: Grumman Road Landfill

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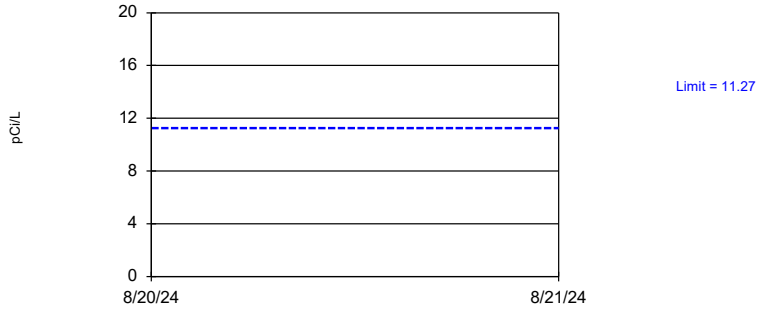
Tolerance Limit

Interwell Parametric



95% coverage. Background Data Summary (based on cube root transformation): Mean=1.519, Std. Dev.=0.3388, n=39. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.9368, critical = 0.917. Report alpha = 0.05.

Constituent: Combined Radium 226 + 228 Analysis Run 12/13/2024 1:42 PM View: Appendix IV - UTLs
Grumman Road Landfill Client: Southern Company Data: Grumman Road Landfill

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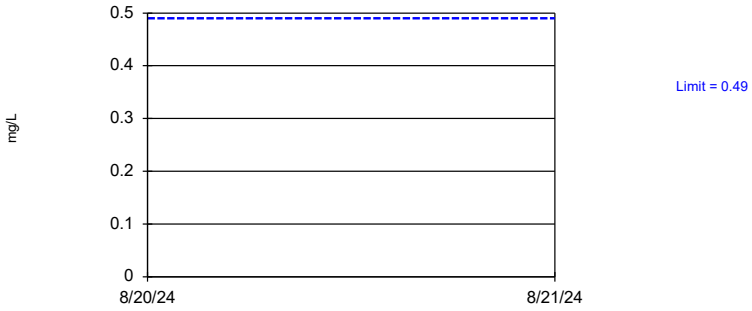
Tolerance Limit

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 46 background values. 21.74% NDs. 90.43% coverage at alpha=0.01; 93.55% coverage at alpha=0.05; 98.63% coverage at alpha=0.5. Report alpha = 0.09447.

Constituent: Fluoride Analysis Run 12/13/2024 1:42 PM View: Appendix IV - UTLs
Grumman Road Landfill Client: Southern Company Data: Grumman Road Landfill

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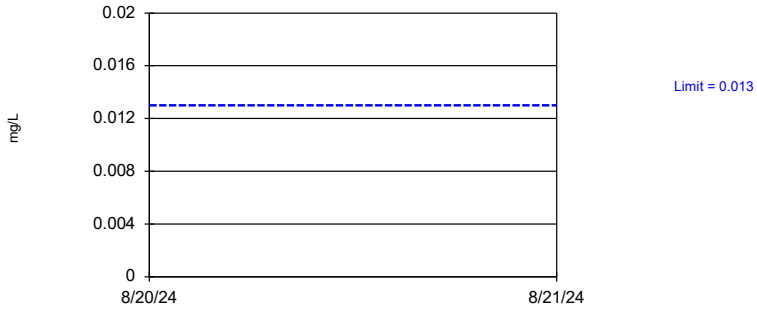
Tolerance Limit

Interwell Non-parametric



Non-parametric test used in lieu of parametric tolerance limit because censored data exceeded 50%. Limit is highest of 131 background values. 72.52% NDs. 96.68% coverage at alpha=0.01; 97.85% coverage at alpha=0.05; 99.41% coverage at alpha=0.5. Report alpha = 0.001207.

Constituent: Lead Analysis Run 12/13/2024 1:42 PM View: Appendix IV - UTLs
Grumman Road Landfill Client: Southern Company Data: Grumman Road Landfill

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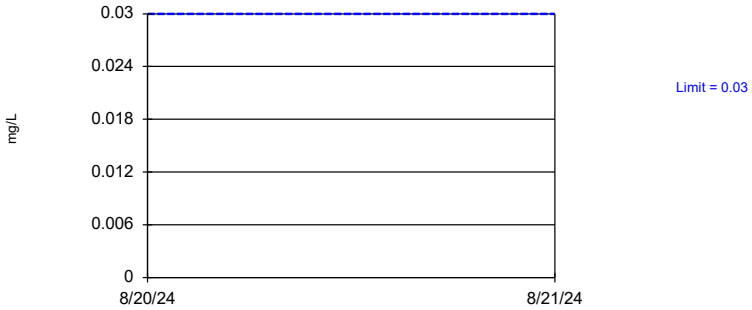
Tolerance Limit

Interwell Non-parametric



Non-parametric test used in lieu of parametric tolerance limit because censored data exceeded 50%. Limit is highest of 42 background values. 78.57% NDs. 89.65% coverage at alpha=0.01; 93.16% coverage at alpha=0.05; 98.24% coverage at alpha=0.5. Report alpha = 0.116.

Constituent: Lithium Analysis Run 12/13/2024 1:42 PM View: Appendix IV - UTLs
Grumman Road Landfill Client: Southern Company Data: Grumman Road Landfill

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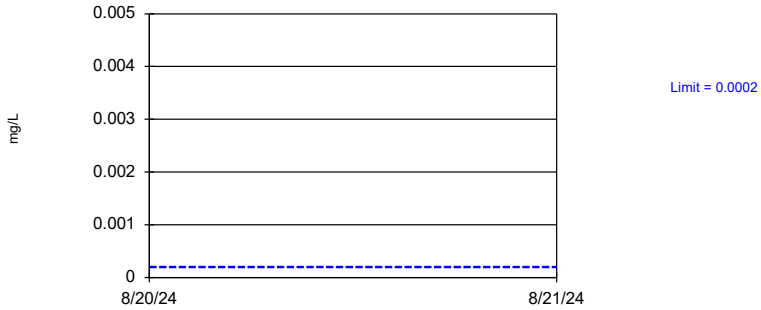
Tolerance Limit

Interwell Non-parametric



Non-parametric test used in lieu of parametric tolerance limit because censored data exceeded 50%. Limit is highest of 36 background values. 86.11% NDs. 88.09% coverage at alpha=0.01; 91.99% coverage at alpha=0.05; 98.24% coverage at alpha=0.5. Report alpha = 0.1578.

Constituent: Mercury Analysis Run 12/13/2024 1:42 PM View: Appendix IV - UTLs
Grumman Road Landfill Client: Southern Company Data: Grumman Road Landfill

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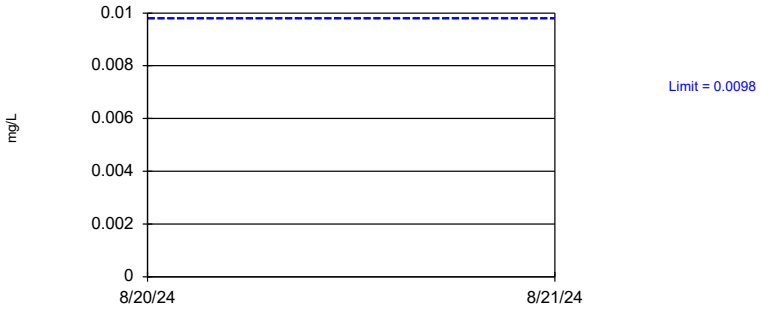
Tolerance Limit

Interwell Non-parametric



Non-parametric test used in lieu of parametric tolerance limit because censored data exceeded 50%. Limit is highest of 42 background values. 80.95% NDs. 89.65% coverage at alpha=0.01; 93.16% coverage at alpha=0.05; 98.24% coverage at alpha=0.5. Report alpha = 0.116.

Constituent: Molybdenum Analysis Run 12/13/2024 1:42 PM View: Appendix IV - UTLs
Grumman Road Landfill Client: Southern Company Data: Grumman Road Landfill

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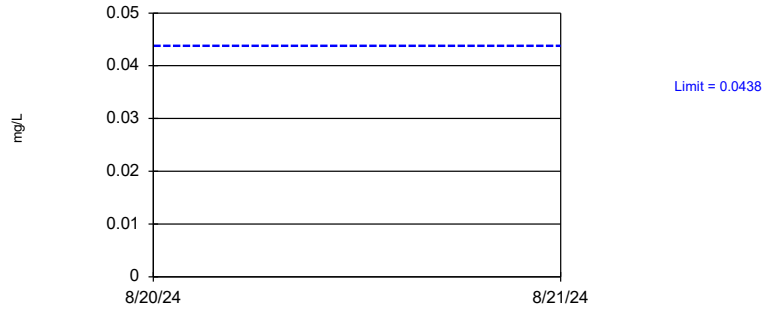
Tolerance Limit

Interwell Non-parametric



Non-parametric test used in lieu of parametric tolerance limit because censored data exceeded 50%. Limit is highest of 135 background values. 81.48% NDs. 96.68% coverage at alpha=0.01; 97.85% coverage at alpha=0.05; 99.41% coverage at alpha=0.5. Report alpha = 0.0009833.

Constituent: Selenium Analysis Run 12/13/2024 1:42 PM View: Appendix IV - UTLs
Grumman Road Landfill Client: Southern Company Data: Grumman Road Landfill

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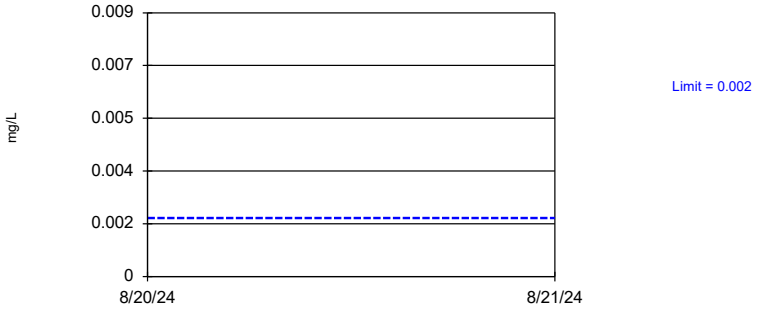
Tolerance Limit

Interwell Non-parametric



Non-parametric test used in lieu of parametric tolerance limit because censored data exceeded 50%. Limit is highest of 74 background values. 94.59% NDs. 93.95% coverage at alpha=0.01; 95.9% coverage at alpha=0.05; 99.02% coverage at alpha=0.5. Report alpha = 0.02247.

Constituent: Thallium Analysis Run 12/13/2024 1:42 PM View: Appendix IV - UTLs
Grumman Road Landfill Client: Southern Company Data: Grumman Road Landfill

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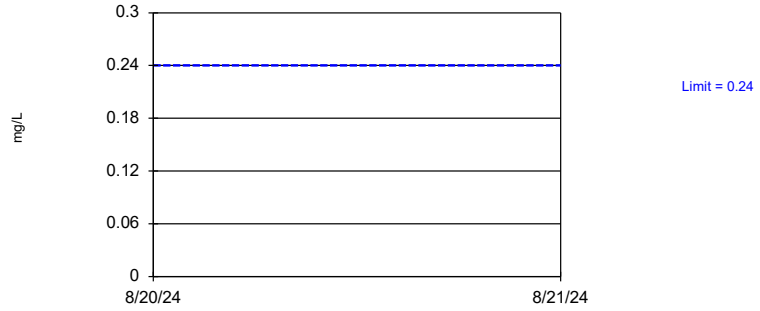
Tolerance Limit

Interwell Non-parametric



Non-parametric test used in lieu of parametric tolerance limit because censored data exceeded 50%. Limit is highest of 123 background values. 62.6% NDs. 96.29% coverage at alpha=0.01; 97.46% coverage at alpha=0.05; 99.41% coverage at alpha=0.5. Report alpha = 0.00182.

Constituent: Vanadium Analysis Run 12/13/2024 1:42 PM View: Appendix IV - UTLs
Grumman Road Landfill Client: Southern Company Data: Grumman Road Landfill

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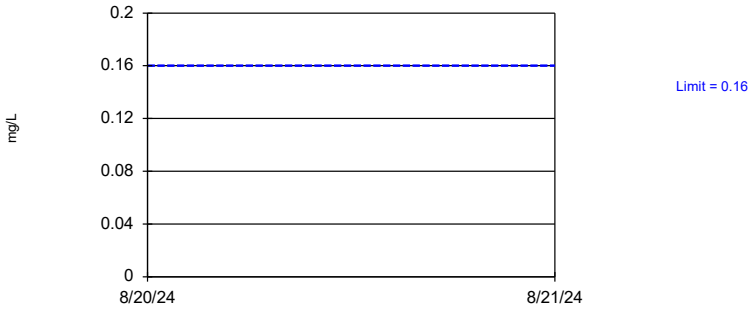
Tolerance Limit

Interwell Non-parametric



Non-parametric test used in lieu of parametric tolerance limit because the Chi Squared normality test showed the data to be non-normal at the 0.01 alpha level. Limit is highest of 127 background values. 29.13% NDs. 96.29% coverage at alpha=0.01; 97.85% coverage at alpha=0.05; 99.41% coverage at alpha=0.5. Report alpha = 0.001482.

Constituent: Zinc Analysis Run 12/13/2024 1:42 PM View: Appendix IV - UTLs

Grumman Road Landfill Client: Southern Company Data: Grumman Road Landfill

Tolerance Limit

Constituent: Antimony (mg/L) Analysis Run 12/13/2024 1:43 PM View: Appendix IV - UTLs

Grumman Road Landfill Client: Southern Company Data: Grumman Road Landfill

	GWA-7 (bg)	GWA-8 (bg)
9/29/2000	<0.003	<0.003
11/21/2000	<0.003	
1/20/2001	<0.003	<0.003
3/14/2001	<0.003	<0.003
7/16/2001	<0.003	<0.003
11/1/2001	<0.003	<0.003
4/25/2002	<0.003	<0.003
11/20/2002		<0.003
6/6/2003	<0.003	<0.003
12/12/2003	<0.003	<0.003
5/26/2004	<0.003	<0.003
12/7/2004	<0.003	<0.003
6/21/2005	<0.003	<0.003
12/12/2005	<0.003	<0.003
4/4/2006		<0.003
6/27/2006	<0.003	<0.003
8/30/2006		<0.003
12/4/2006	<0.003	<0.003
2/15/2007		<0.003
6/23/2007	<0.003	<0.003
9/11/2007		<0.003
12/11/2007	<0.003	<0.003
3/11/2008		<0.003
6/23/2008	<0.003	<0.003
11/3/2008		<0.003
12/4/2008	<0.003	<0.003
3/25/2009		<0.003
7/7/2009	<0.003	<0.003
9/14/2009		<0.003
12/20/2009	<0.003	<0.003
3/4/2010		<0.003
6/20/2010	<0.003	<0.003
9/14/2010		<0.003
1/7/2011	<0.003	<0.003
4/15/2011		<0.003
7/7/2011	<0.003	<0.003
9/25/2011		<0.003
1/17/2012	<0.003	<0.003
4/4/2012		<0.003
7/9/2012	<0.003	
7/10/2012		<0.003
10/9/2012		<0.003
1/18/2013	<0.003	<0.003
4/5/2013		<0.003
7/17/2013	<0.003	<0.003
10/11/2013		<0.003
1/13/2014	<0.003	
1/14/2014		<0.003
4/3/2014		<0.003
7/9/2014	0.0022 (J)	<0.003
10/24/2014		<0.003
1/13/2015	<0.003	

ND substitution: RL or RL/2 if <15% NDs.

Tolerance Limit

Constituent: Antimony (mg/L) Analysis Run 12/13/2024 1:43 PM View: Appendix IV - UTLs

Grumman Road Landfill Client: Southern Company Data: Grumman Road Landfill

	GWA-7 (bg)	GWA-8 (bg)
1/14/2015		<0.003
5/10/2015		<0.003
7/16/2015	0.0028 (J)	
7/17/2015		<0.003
10/6/2015		<0.003
1/18/2016	<0.003	<0.003
4/26/2016		<0.003
7/27/2016	<0.003	
7/28/2016		<0.003
8/30/2016		<0.003
9/1/2016	0.0017 (J)	
10/24/2016		<0.003
10/25/2016	<0.003	
1/3/2017		<0.003
1/6/2017	0.0009 (J)	
4/3/2017		<0.003
4/6/2017	<0.003	
7/11/2017		<0.003
7/13/2017	0.0013 (J)	
10/2/2017		<0.003
10/4/2017	0.0008 (J)	
1/9/2018	<0.003	<0.003
7/9/2018		<0.003
7/11/2018	<0.003	
1/16/2019	<0.003	<0.003
3/25/2019	<0.003	<0.003
8/26/2019	<0.003	<0.003
10/7/2019		<0.003
10/8/2019	<0.003	
4/6/2020	<0.003	<0.003
8/17/2020		<0.003
8/19/2020	<0.003	
9/28/2020	<0.003	<0.003
3/11/2021	<0.003	
3/12/2021		<0.003
9/21/2021	<0.003	<0.003
1/31/2022	<0.003	<0.003
8/30/2022	<0.003	<0.003
1/31/2023	<0.003	<0.003
8/28/2023	<0.003	<0.003
1/23/2024	<0.003	<0.003
8/19/2024	<0.003	
8/21/2024		<0.003

ND substitution: RL or RL/2 if <15% NDs.

Tolerance Limit

Constituent: Arsenic (mg/L) Analysis Run 12/13/2024 1:43 PM View: Appendix IV - UTLs
Grumman Road Landfill Client: Southern Company Data: Grumman Road Landfill

	GWA-7 (bg)	GWA-8 (bg)
9/29/2000	<0.005	<0.005
11/21/2000	<0.005	
1/20/2001	<0.005	<0.005
3/14/2001	<0.005	<0.005
7/16/2001	<0.005	<0.005
11/1/2001	<0.005	<0.005
4/25/2002	<0.005	<0.005
11/20/2002		<0.005
6/6/2003	0.02	<0.005
12/12/2003	<0.005	<0.005
5/26/2004	<0.005	<0.005
12/7/2004	<0.005	<0.005
6/21/2005	<0.005	<0.005
12/12/2005	<0.005	<0.005
4/4/2006		<0.005
6/27/2006	<0.005	<0.005
8/30/2006		<0.005
12/4/2006	<0.005	<0.005
2/15/2007		<0.005
6/23/2007	<0.005	<0.005
9/11/2007		<0.005
12/11/2007	<0.005	<0.005
3/11/2008		<0.005
6/23/2008	<0.005	<0.005
11/3/2008		<0.005
12/4/2008	<0.005	<0.005
3/25/2009		<0.005
7/7/2009	<0.005	<0.005
9/14/2009		<0.005
12/20/2009	<0.005	<0.005
3/4/2010		<0.005
6/20/2010	<0.005	<0.005
9/14/2010		<0.005
1/7/2011	<0.005	<0.005
4/15/2011		<0.005
7/7/2011	<0.005	<0.005
9/25/2011		<0.005
1/17/2012	<0.005	<0.005
4/4/2012		<0.005
7/9/2012	0.0052	
7/10/2012		<0.005
10/9/2012		<0.005
1/18/2013	0.0087	<0.005
4/5/2013		<0.005
7/17/2013	0.0084	<0.005
10/11/2013		<0.005
1/13/2014	0.009	
1/14/2014		<0.005
4/3/2014		<0.005
7/9/2014	0.008	<0.005
10/24/2014		<0.005
1/13/2015	0.0077	

ND substitution: RL or RL/2 if <15% NDs.

Tolerance Limit

Constituent: Arsenic (mg/L) Analysis Run 12/13/2024 1:43 PM View: Appendix IV - UTLs
Grumman Road Landfill Client: Southern Company Data: Grumman Road Landfill

	GWA-7 (bg)	GWA-8 (bg)
1/14/2015		<0.005
5/10/2015		<0.005
7/16/2015	0.0077	
7/17/2015		<0.005
10/6/2015		<0.005
1/18/2016	0.014	<0.005
4/26/2016		0.0011 (J)
7/27/2016	0.0111	
7/28/2016		<0.005
8/30/2016		<0.005
9/1/2016	0.0287	
10/24/2016		<0.005
10/25/2016	0.0069	
1/3/2017		<0.005
1/6/2017	0.0097	
4/3/2017		0.0006 (J)
4/6/2017	0.0104	
7/11/2017		0.0006 (J)
7/13/2017	0.0064	
10/2/2017		0.0006 (J)
10/4/2017	0.0078	
1/9/2018	0.0091 (J)	0.0009 (J)
7/9/2018		<0.005
7/11/2018	<0.005	
1/16/2019	<0.005	<0.005
3/25/2019	0.0029 (J)	<0.005
8/26/2019	0.0041 (J)	<0.005
10/7/2019		<0.005
10/8/2019	0.003 (J)	
4/6/2020	<0.005	0.00045 (J)
8/17/2020		<0.005
8/19/2020	0.006 (J)	
9/28/2020	<0.005	<0.005
3/11/2021	0.0047 (J)	
3/12/2021		<0.005
9/21/2021	<0.005	<0.005
1/31/2022	<0.005	<0.005
8/30/2022	0.00321 (J)	<0.005
1/31/2023	0.0025 (J)	<0.005
8/28/2023	0.0039 (J)	<0.005
1/23/2024	0.00432 (J)	0.00216 (J)
8/19/2024	0.00287 (J)	
8/21/2024		<0.005

ND substitution: RL or RL/2 if <15% NDs.

Tolerance Limit

Constituent: Barium (mg/L) Analysis Run 12/13/2024 1:43 PM View: Appendix IV - UTLs
Grumman Road Landfill Client: Southern Company Data: Grumman Road Landfill

	GWA-7 (bg)	GWA-8 (bg)
9/29/2000	0.11	0.16
11/21/2000	0.12	
1/20/2001	0.11	0.18
3/14/2001	0.11	0.14
7/16/2001	0.11	0.14
11/1/2001	0.11	0.14
4/25/2002	0.058	0.088
6/6/2003	0.19	0.14
12/12/2003	0.1	0.13
5/26/2004	0.084	0.09
12/7/2004	0.094	0.11
6/21/2005	0.089	0.084
12/12/2005	0.089	0.1
4/4/2006		0.089
6/27/2006	0.096	0.1
8/30/2006		0.12
12/4/2006	0.092	0.086
2/15/2007		0.088
6/23/2007	0.08	0.089
9/11/2007		0.092
12/11/2007	0.067	0.077
3/11/2008		0.082
6/23/2008	0.056	0.086
11/3/2008		0.088
12/4/2008	0.054	0.081
3/25/2009		0.069
7/7/2009	0.034	0.078
9/14/2009		0.079
12/20/2009	0.034	0.081
3/4/2010		0.065
6/20/2010	0.062	0.078
9/14/2010		0.076
1/7/2011	0.039	0.074
4/15/2011		0.065
7/7/2011	0.036	0.081
9/25/2011		0.078
1/17/2012	0.041	0.082
4/4/2012		0.0861
7/9/2012	0.15	
7/10/2012		0.082
10/9/2012		0.09
1/18/2013	0.15	0.083
4/5/2013		0.078
7/17/2013	0.13	0.083
10/11/2013		0.078
1/13/2014	0.16	
1/14/2014		0.081
4/3/2014		0.077
7/9/2014	0.11	0.073
10/24/2014		0.087
1/13/2015	0.083	
1/14/2015		0.079

Tolerance Limit

Constituent: Barium (mg/L) Analysis Run 12/13/2024 1:43 PM View: Appendix IV - UTLs
Grumman Road Landfill Client: Southern Company Data: Grumman Road Landfill

	GWA-7 (bg)	GWA-8 (bg)
5/10/2015		0.076
7/16/2015	0.094	
7/17/2015		0.061
10/6/2015		0.067
1/18/2016	0.22	0.068
4/26/2016		0.0596
7/27/2016	0.192	
7/28/2016		0.0701
8/30/2016		0.0687
9/1/2016	0.415 (O)	
10/24/2016		0.07
10/25/2016	0.173	
1/3/2017		0.061
1/6/2017	0.167	
4/3/2017		0.0612
4/6/2017	0.136	
7/11/2017		0.0624
7/13/2017	0.0891	
10/2/2017		0.0618
10/4/2017	0.113	
1/9/2018	0.0901	0.0574
7/9/2018		0.056
7/11/2018	0.065	
1/16/2019	0.062	0.062
3/25/2019	0.054	0.064
8/26/2019	0.11	0.065
10/7/2019		0.069
10/8/2019	0.1	
4/6/2020	0.072	0.057
8/17/2020		0.051
8/19/2020	0.1	
9/28/2020	0.095	0.05
3/11/2021	0.07	
3/12/2021		0.052
9/21/2021	0.073	0.049
1/31/2022	0.1	0.051
8/30/2022	0.133	0.0512
1/31/2023	0.126	0.0499
8/28/2023	0.177	0.0483
1/23/2024	0.236	0.0571
8/19/2024	0.201	
8/21/2024		0.0576

Tolerance Limit

Constituent: Beryllium (mg/L) Analysis Run 12/13/2024 1:43 PM View: Appendix IV - UTLs

Grumman Road Landfill Client: Southern Company Data: Grumman Road Landfill

	GWA-7 (bg)	GWA-8 (bg)
9/29/2000	<0.0005	<0.0005
11/21/2000	<0.0005	
1/20/2001	<0.0005	<0.0005
3/14/2001	<0.0005	<0.0005
7/16/2001	<0.0005	<0.0005
11/1/2001	<0.0005	<0.0005
4/25/2002	<0.0005	<0.0005
8/30/2016		0.0002 (J)
9/1/2016	0.0017 (J)	
10/24/2016		<0.0005
10/25/2016	0.0002 (J)	
1/3/2017		0.0002 (J)
1/6/2017	0.0003 (J)	
4/3/2017		0.0002 (J)
4/6/2017	0.0004 (J)	
7/11/2017		0.0002 (J)
7/13/2017	0.001 (J)	
10/2/2017		0.0002 (J)
10/4/2017	0.0002 (J)	
1/9/2018	<0.0005	0.0002 (J)
7/9/2018		0.0002 (J)
7/11/2018	<0.0005	
8/26/2019	<0.0005	0.00021 (J)
10/7/2019		0.00024 (J)
10/8/2019	<0.0005	
4/6/2020	<0.0005	0.00017 (J)
8/17/2020		0.00019 (J)
8/19/2020	<0.0005	
9/28/2020	<0.0005	0.00021 (J)
3/11/2021	0.00028 (J)	
3/12/2021		0.00023 (J)
9/21/2021	<0.0005	0.00016 (J)
1/31/2022	<0.0005	0.00016 (J)
8/30/2022	0.000219 (J)	<0.0005
1/31/2023	<0.0005	0.000206 (J)
8/28/2023	<0.0005	<0.0005
1/23/2024	<0.0005	<0.0005
8/19/2024	<0.0005	
8/21/2024		<0.0005

ND substitution: RL or RL/2 if <15% NDs.

Tolerance Limit

Constituent: Cadmium (mg/L) Analysis Run 12/13/2024 1:43 PM View: Appendix IV - UTLs

Grumman Road Landfill Client: Southern Company Data: Grumman Road Landfill

	GWA-7 (bg)	GWA-8 (bg)
11/21/2000	<0.001	
1/20/2001	<0.001	<0.001
3/14/2001	<0.001	<0.001
7/16/2001	<0.001	<0.001
11/1/2001	<0.001	<0.001
4/25/2002	<0.001	<0.001
8/30/2016		<0.001
9/1/2016	0.0007 (J)	
10/24/2016		<0.001
10/25/2016	<0.001	
1/3/2017		<0.001
1/6/2017	0.0001 (J)	
4/3/2017		<0.001
4/6/2017	<0.001	
7/11/2017		<0.001
7/13/2017	<0.001	
10/2/2017		<0.001
10/4/2017	<0.001	
1/9/2018	<0.001	<0.001
7/9/2018		<0.001
7/11/2018	<0.001	
8/26/2019	<0.001	<0.001
10/7/2019		<0.001
10/8/2019	<0.001	
4/6/2020	<0.001	<0.001
8/17/2020		<0.001
8/19/2020	<0.001	
9/28/2020	<0.001	<0.001
3/11/2021	<0.001	
3/12/2021		<0.001
9/21/2021	<0.001	<0.001
1/31/2022	<0.001	<0.001
8/30/2022	<0.001	<0.001
1/31/2023	<0.001	<0.001
8/28/2023	<0.001	<0.001
1/23/2024	<0.001	<0.001
8/19/2024	<0.001	
8/21/2024		<0.001

ND substitution: RL or RL/2 if <15% NDs.

Tolerance Limit

Constituent: Chromium (mg/L) Analysis Run 12/13/2024 1:43 PM View: Appendix IV - UTLs

Grumman Road Landfill Client: Southern Company Data: Grumman Road Landfill

	GWA-7 (bg)	GWA-8 (bg)
9/29/2000	<0.01	<0.01
11/21/2000	<0.01	
1/20/2001	<0.01	<0.01
3/14/2001	<0.01	<0.01
7/16/2001	<0.01	<0.01
11/1/2001	<0.01	<0.01
4/25/2002	<0.01	<0.01
11/20/2002		0.0051
6/6/2003	0.037	0.014
12/12/2003	0.0044	0.011
5/26/2004	<0.01	<0.01
12/7/2004	<0.01	<0.01
6/21/2005	<0.01	<0.01
12/12/2005	<0.01	<0.01
4/4/2006		<0.01
6/27/2006	<0.01	<0.01
8/30/2006		<0.01
12/4/2006	0.0015	<0.01
2/15/2007		<0.01
6/23/2007	<0.01	<0.01
9/11/2007		<0.01
12/11/2007	0.0016	<0.01
3/11/2008		<0.01
6/23/2008	0.0019	<0.01
11/3/2008		<0.01
12/4/2008	<0.01	<0.01
3/25/2009		<0.01
7/7/2009	0.0037	<0.01
9/14/2009		<0.01
12/20/2009	0.0016	<0.01
3/4/2010		<0.01
6/20/2010	<0.01	<0.01
9/14/2010		<0.01
1/7/2011	0.0033	<0.01
4/15/2011		<0.01
7/7/2011	0.0044	<0.01
9/25/2011		0.0021
1/17/2012	0.0038	<0.01
4/4/2012		<0.01
7/9/2012	0.022	
7/10/2012		<0.01
10/9/2012		<0.01
1/18/2013	0.034	<0.01
4/5/2013		<0.01
7/17/2013	0.032	<0.01
10/11/2013		<0.01
1/13/2014	0.04	
1/14/2014		<0.01
4/3/2014		<0.01
7/9/2014	0.036	<0.01
10/24/2014		<0.01
1/13/2015	0.03	

ND substitution: RL or RL/2 if <15% NDs.

Tolerance Limit

Constituent: Chromium (mg/L) Analysis Run 12/13/2024 1:43 PM View: Appendix IV - UTLs

Grumman Road Landfill Client: Southern Company Data: Grumman Road Landfill

	GWA-7 (bg)	GWA-8 (bg)
1/14/2015		<0.01
5/10/2015		<0.01
7/16/2015	0.039	
7/17/2015		<0.01
10/6/2015		<0.01
1/18/2016	0.068	<0.01
4/26/2016		<0.01
7/27/2016	0.05	
7/28/2016		<0.01
8/30/2016		<0.01
9/1/2016	0.119 (O)	
10/24/2016		<0.01
10/25/2016	0.0519	
1/3/2017		<0.01
1/6/2017	0.0536	
4/3/2017		0.0004 (J)
4/6/2017	0.0447 (J)	
7/11/2017		0.0006 (J)
7/13/2017	0.0269	
10/2/2017		<0.01
10/4/2017	0.0378	
1/9/2018	0.0283 (J)	<0.01
7/9/2018		<0.01
7/11/2018	0.018 (J)	
1/16/2019	0.018 (J)	<0.01
3/25/2019	0.017 (J)	<0.01
8/26/2019	0.024 (J)	0.001 (J)
10/7/2019		0.00052 (J)
10/8/2019	0.021 (J)	
4/6/2020	0.015 (J)	<0.01
8/17/2020		0.00082 (J)
8/19/2020	0.015 (J)	
9/28/2020	0.014 (J)	0.00071 (J)
3/11/2021	0.02 (J)	
3/12/2021		0.00074 (J)
9/21/2021	0.013 (J)	<0.01
1/31/2022	0.015 (J)	<0.01
8/30/2022	0.0129	<0.01
1/31/2023	0.0112	<0.01
8/28/2023	0.0139	<0.01
1/23/2024	<0.01	<0.01
8/19/2024	0.0123	
8/21/2024		<0.01

ND substitution: RL or RL/2 if <15% NDs.

Tolerance Limit

Constituent: Cobalt (mg/L) Analysis Run 12/13/2024 1:43 PM View: Appendix IV - UTLs
Grumman Road Landfill Client: Southern Company Data: Grumman Road Landfill

	GWA-7 (bg)	GWA-8 (bg)
9/29/2000	<0.005	<0.005
11/21/2000	<0.005	
1/20/2001	<0.005	<0.005
3/14/2001	<0.005	<0.005
7/16/2001	<0.005	<0.005
11/1/2001	<0.005	<0.005
4/25/2002	<0.005	<0.005
8/30/2016		<0.005
9/1/2016	0.0102	
10/24/2016		<0.005
10/25/2016	0.0037 (J)	
1/3/2017		<0.005
1/6/2017	0.0039 (J)	
4/3/2017		0.0005 (J)
4/6/2017	0.006 (J)	
7/11/2017		0.0005 (J)
7/13/2017	0.0037 (J)	
10/2/2017		0.0004 (J)
10/4/2017	0.0058 (J)	
1/9/2018	0.0053 (J)	0.0004 (J)
7/9/2018		<0.005
7/11/2018	<0.05 (O)	
8/26/2019	0.0037 (J)	0.00042 (J)
10/7/2019		0.00046 (J)
10/8/2019	0.0028 (J)	
4/6/2020	0.0021 (J)	0.00036 (J)
8/17/2020		<0.005
8/19/2020	0.0021 (J)	
9/28/2020	<0.005	<0.005
3/11/2021	0.0023 (J)	
3/12/2021		0.00058 (J)
9/21/2021	<0.005	<0.005
1/31/2022	<0.025 (o)	0.00044 (J)
8/30/2022	0.00134	0.00042 (J)
1/31/2023	0.00114	0.000378 (J)
8/28/2023	0.00156	<0.005
1/23/2024	<0.005	0.000302 (J)
8/19/2024	0.0015	
8/21/2024		0.000413 (J)

ND substitution: RL or RL/2 if <15% NDs.

Tolerance Limit

Constituent: Combined Radium 226 + 228 (pCi/L) Analysis Run 12/13/2024 1:43 PM View: Appendix IV - UTLs

Grumman Road Landfill Client: Southern Company Data: Grumman Road Landfill

	GWA-8 (bg)	GWA-7 (bg)
8/30/2016	2.72	
9/1/2016		11
10/24/2016	2.96	
10/25/2016		10.5
1/3/2017	2.76	
1/6/2017		6.81
4/3/2017	1.36	
4/6/2017		8.93
7/11/2017	1.85	
7/13/2017		8.51
10/2/2017	1.9	
10/4/2017		3.85
1/9/2018	2.39	4.28
7/9/2018	1.49	
7/11/2018		5.99
8/26/2019	3.03	6.03
10/7/2019	2.83	
10/8/2019		33.8 (o)
4/6/2020	2.83	25.7 (o)
8/17/2020	2.63	
8/19/2020		5.45
9/28/2020	2.08	22.4 (o)
3/11/2021		3.22
3/12/2021	2.17	
9/21/2021	0.73 (U)	10.3
1/31/2022	1.01	8.46 (U)
8/30/2022	1.97	2.75
1/31/2023	1.96 (U)	3.86
8/28/2023	1.84	1.69
1/23/2024	3.11	4.64
8/19/2024		3.16
8/21/2024	4.29	

Tolerance Limit

Constituent: Fluoride (mg/L) Analysis Run 12/13/2024 1:43 PM View: Appendix IV - UTLs

Grumman Road Landfill Client: Southern Company Data: Grumman Road Landfill

	GWA-8 (bg)	GWA-7 (bg)
8/30/2016	0.1 (J)	
9/1/2016		<0.1
10/24/2016	0.18 (J)	
10/25/2016		0.07 (J)
1/3/2017	0.18 (J)	
1/6/2017		0.2 (J)
4/3/2017	0.12 (J)	
4/6/2017		0.05 (J)
7/11/2017	0.39	
7/13/2017		0.41
10/2/2017	0.12 (J)	
10/4/2017		0.04 (J)
1/9/2018	0.21 (J)	0.46
7/9/2018	0.04 (J)	
7/11/2018		<0.1
1/16/2019	<0.1	0.49
3/25/2019	0.082 (J)	0.21 (J)
8/26/2019	0.13	<0.1
10/7/2019	<0.1	
10/8/2019		<0.1
4/6/2020	0.089 (J)	0.13 (J)
8/17/2020	0.079 (J)	
8/19/2020		0.21
9/28/2020	<0.1	0.069 (J)
3/11/2021		<0.1
3/12/2021	0.087 (J)	
9/21/2021	0.068 (J)	0.077 (J)
1/31/2022	0.09 (J)	<0.1
8/30/2022	0.0759 (J)	0.0391 (J)
1/31/2023	0.0842 (J)	0.051 (J)
8/28/2023	0.0498 (J)	<0.1
1/23/2024	0.0641 (J)	0.0367 (J)
8/19/2024		0.061 (J)
8/21/2024	0.108	

ND substitution: RL or RL/2 if <15% NDs.

Tolerance Limit

Constituent: Lead (mg/L) Analysis Run 12/13/2024 1:43 PM View: Appendix IV - UTLs
Grumman Road Landfill Client: Southern Company Data: Grumman Road Landfill

	GWA-7 (bg)	GWA-8 (bg)
9/29/2000	<0.002	<0.002
11/21/2000	<0.002	
1/20/2001	<0.002	<0.002
3/14/2001	<0.002	<0.002
7/16/2001	<0.002	<0.002
11/1/2001	<0.002	<0.002
4/25/2002	<0.002	<0.002
11/20/2002		<0.002
6/6/2003	0.037 (O)	0.016 (O)
12/12/2003	0.008	0.0095
5/26/2004	<0.002	<0.002
12/7/2004	<0.002	<0.002
6/21/2005	<0.002	<0.002
12/12/2005	<0.002	<0.002
4/4/2006		<0.002
6/27/2006	<0.002	<0.002
8/30/2006		<0.002
12/4/2006	<0.002	<0.002
2/15/2007		<0.002
6/23/2007	<0.002	<0.002
9/11/2007		<0.002
12/11/2007	<0.002	<0.002
3/11/2008		<0.002
6/23/2008	<0.002	<0.002
11/3/2008		<0.002
12/4/2008	<0.002	<0.002
3/25/2009		<0.002
7/7/2009	<0.002	<0.002
9/14/2009		<0.002
12/20/2009	<0.002	<0.002
3/4/2010		<0.002
6/20/2010	<0.002	<0.002
9/14/2010		<0.002
1/7/2011	<0.002	<0.002
4/15/2011		<0.002
7/7/2011	<0.002	<0.002
9/25/2011		<0.002
1/17/2012	<0.002	<0.002
4/4/2012		<0.002
7/9/2012	<0.002	
7/10/2012		<0.002
10/9/2012		<0.002
1/18/2013	<0.002	<0.002
4/5/2013		<0.002
7/17/2013	<0.002	<0.002
10/11/2013		<0.002
1/13/2014	0.013	
1/14/2014		<0.002
4/3/2014		<0.002
7/9/2014	0.0076 (J)	<0.002
10/24/2014		<0.002
1/13/2015	0.0057 (J)	

ND substitution: RL or RL/2 if <15% NDs.

Tolerance Limit

Constituent: Lead (mg/L) Analysis Run 12/13/2024 1:43 PM View: Appendix IV - UTLs
Grumman Road Landfill Client: Southern Company Data: Grumman Road Landfill

	GWA-7 (bg)	GWA-8 (bg)
1/14/2015		<0.002
5/10/2015		<0.002
7/16/2015	0.009 (J)	
7/17/2015		<0.002
10/6/2015		<0.002
1/18/2016	0.0094 (J)	<0.002
4/26/2016		<0.002
7/27/2016	0.0058	
7/28/2016		<0.002
8/30/2016		<0.002
9/1/2016	0.0663 (O)	
10/24/2016		<0.002
10/25/2016	0.0003 (J)	
1/3/2017		0.0001 (J)
1/6/2017	0.006	
4/3/2017		0.0002 (J)
4/6/2017	0.0109	
7/11/2017		0.0001 (J)
7/13/2017	0.007	
10/2/2017		0.0001 (J)
10/4/2017	0.0042 (J)	
1/9/2018	0.0098	0.0001 (J)
7/9/2018		<0.002
7/11/2018	0.0028 (J)	
1/16/2019	<0.025 (O)	<0.002
3/25/2019	0.0019 (J)	<0.002
8/26/2019	0.013 (J)	<0.002
10/7/2019		<0.002
10/8/2019	0.0098 (J)	
4/6/2020	0.0024 (J)	0.0001 (J)
8/17/2020		<0.002
8/19/2020	0.0044 (J)	
9/28/2020	0.0043 (J)	<0.002
3/11/2021	0.0079	
3/12/2021		9.3E-05 (J)
9/21/2021	<0.002	<0.002
1/31/2022	<0.002	<0.002
8/30/2022	0.0022	<0.002
1/31/2023	0.00126 (J)	0.0104
8/28/2023	0.0017 (J)	0.000566 (J)
1/23/2024	0.00133 (J)	<0.002
8/19/2024	0.000838 (J)	
8/21/2024		<0.002

Tolerance Limit

Constituent: Lithium (mg/L) Analysis Run 12/13/2024 1:43 PM View: Appendix IV - UTLs
Grumman Road Landfill Client: Southern Company Data: Grumman Road Landfill

	GWA-8 (bg)	GWA-7 (bg)
8/30/2016	<0.03	
9/1/2016		<0.03
10/24/2016	<0.03	
10/25/2016		<0.03
1/3/2017	<0.03	
1/6/2017		<0.03
4/3/2017	<0.03	
4/6/2017		<0.03
7/11/2017	<0.03	
7/13/2017		<0.03
10/2/2017	<0.03	
10/4/2017		<0.03
1/9/2018	<0.03	<0.03
7/9/2018	0.001 (J)	
7/11/2018		<0.03
8/26/2019	0.0012 (J)	<0.03
10/7/2019	0.0012 (J)	
10/8/2019		<0.03
4/6/2020	0.00086 (J)	<0.03
8/17/2020	0.001 (J)	
8/19/2020		<0.03
9/28/2020	0.001 (J)	<0.03
3/11/2021		<0.03
3/12/2021	0.0013 (J)	
9/21/2021	0.00092 (J)	<0.03
1/31/2022	0.00091 (J)	<0.03
8/30/2022	<0.03	<0.03
1/31/2023	<0.03	<0.03
8/28/2023	<0.03	<0.03
1/23/2024	<0.03	<0.03
8/19/2024		<0.03
8/21/2024	<0.03	

ND substitution: RL or RL/2 if <15% NDs.

Tolerance Limit

Constituent: Mercury (mg/L) Analysis Run 12/13/2024 1:43 PM View: Appendix IV - UTLs

Grumman Road Landfill Client: Southern Company Data: Grumman Road Landfill

	GWA-8 (bg)	GWA-7 (bg)
8/30/2016	<0.0002	
9/1/2016		0.00017 (J)
10/24/2016	<0.0002	
10/25/2016		<0.0002
1/3/2017	<0.0002	
1/6/2017		<0.0002
4/3/2017	<0.0002	
4/6/2017		4E-05 (J)
7/11/2017	<0.0002	
7/13/2017		<0.0002
10/2/2017	<0.0002	
10/4/2017		0.0001 (J)
1/9/2018	<0.0002	<0.0002
7/9/2018	<0.0002	
7/11/2018		<0.0002
1/16/2019	<0.0002	<0.0002
8/26/2019	<0.0002	<0.0002
8/17/2020	<0.0002	
8/19/2020		<0.0002
9/21/2021	0.00011 (J)	0.0001 (J)
1/31/2022	<0.0002	<0.0002
8/30/2022	<0.0002	<0.0002
1/31/2023	<0.0002	<0.0002
8/28/2023	<0.0002	<0.0002
1/23/2024	<0.0002	<0.0002
8/19/2024		<0.0002
8/21/2024	<0.0002	

ND substitution: RL or RL/2 if <15% NDs.

Tolerance Limit

Constituent: Molybdenum (mg/L) Analysis Run 12/13/2024 1:43 PM View: Appendix IV - UTLs

Grumman Road Landfill Client: Southern Company Data: Grumman Road Landfill

	GWA-8 (bg)	GWA-7 (bg)
8/30/2016	<0.001	
9/1/2016		0.0098 (J)
10/24/2016	<0.001	
10/25/2016		<0.001
1/3/2017	<0.001	
1/6/2017		<0.001
4/3/2017	<0.001	
4/6/2017		<0.001
7/11/2017	<0.001	
7/13/2017		0.0013 (J)
10/2/2017	<0.001	
10/4/2017		0.0013 (J)
1/9/2018	<0.001	<0.001
7/9/2018	<0.001	
7/11/2018		<0.001
8/26/2019	<0.001	<0.001
10/7/2019	<0.001	
10/8/2019		<0.001
4/6/2020	<0.001	<0.001
8/17/2020	<0.001	
8/19/2020		<0.001
9/28/2020	<0.001	<0.001
3/11/2021		<0.001
3/12/2021	<0.001	
9/21/2021	<0.001	<0.001
1/31/2022	<0.001	<0.001
8/30/2022	<0.001	0.000453 (J)
1/31/2023	<0.001	0.000364 (J)
8/28/2023	<0.001	0.000543 (J)
1/23/2024	<0.001	0.000396 (J)
8/19/2024		0.000468 (J)
8/21/2024	<0.001	

ND substitution: RL or RL/2 if <15% NDs.

Tolerance Limit

Constituent: Selenium (mg/L) Analysis Run 12/13/2024 1:43 PM View: Appendix IV - UTLs

Grumman Road Landfill Client: Southern Company Data: Grumman Road Landfill

	GWA-7 (bg)	GWA-8 (bg)
9/29/2000	<0.005	<0.005
11/21/2000	<0.005	
1/20/2001	<0.005	<0.005
3/14/2001	<0.005	<0.005
7/16/2001	<0.005	<0.005
11/1/2001	<0.005	<0.005
4/25/2002	<0.005	<0.005
11/20/2002		<0.005
6/6/2003	<0.005	<0.005
12/12/2003	<0.005	<0.005
5/26/2004	<0.005	<0.005
12/7/2004	<0.005	<0.005
6/21/2005	<0.005	<0.005
12/12/2005	<0.005	<0.005
4/4/2006		<0.005
6/27/2006	<0.005	<0.005
8/30/2006		<0.005
12/4/2006	<0.005	<0.005
2/15/2007		<0.005
6/23/2007	<0.005	<0.005
9/11/2007		<0.005
12/11/2007	<0.005	<0.005
3/11/2008		<0.005
6/23/2008	<0.005	<0.005
11/3/2008		<0.005
12/4/2008	<0.005	<0.005
3/25/2009		<0.005
7/7/2009	<0.005	<0.005
9/14/2009		<0.005
12/20/2009	<0.005	<0.005
3/4/2010		<0.005
6/20/2010	<0.005	<0.005
9/14/2010		<0.005
1/7/2011	<0.005	<0.005
4/15/2011		<0.005
7/7/2011	<0.005	<0.005
9/25/2011		<0.005
1/17/2012	<0.005	<0.005
4/4/2012		<0.005
7/9/2012	<0.005	
7/10/2012		<0.005
10/9/2012		<0.005
1/18/2013	0.009	<0.005
4/5/2013		<0.005
7/17/2013	0.011	<0.005
10/11/2013		<0.005
1/13/2014	0.012	
1/14/2014		<0.005
4/3/2014		<0.005
7/9/2014	0.011	<0.005
10/24/2014		<0.005
1/13/2015	0.0092	

ND substitution: RL or RL/2 if <15% NDs.

Tolerance Limit

Constituent: Selenium (mg/L) Analysis Run 12/13/2024 1:43 PM View: Appendix IV - UTLs

Grumman Road Landfill Client: Southern Company Data: Grumman Road Landfill

	GWA-7 (bg)	GWA-8 (bg)
1/14/2015		<0.005
5/10/2015		<0.005
7/16/2015	0.014	
7/17/2015		<0.005
10/6/2015		<0.005
1/18/2016	0.023	<0.005
4/26/2016		<0.005
7/27/2016	0.0323	
7/28/2016		0.001 (J)
8/30/2016		<0.005
9/1/2016	0.0438	
10/24/2016		0.0013 (J)
10/25/2016	0.031	
1/3/2017		<0.005
1/6/2017	0.0324	
4/3/2017		<0.005
4/6/2017	0.0188 (J)	
7/11/2017		<0.005
7/13/2017	0.0118	
10/2/2017		<0.005
10/4/2017	0.0195	
1/9/2018	<0.005	<0.005
7/9/2018		<0.005
7/11/2018	<0.005	
1/16/2019	0.0071 (J)	<0.005
3/25/2019	<0.005	<0.005
8/26/2019	<0.005	<0.005
10/7/2019		<0.005
10/8/2019	0.0072 (J)	
4/6/2020	0.0078 (J)	<0.005
8/17/2020		<0.005
8/19/2020	<0.005	
9/28/2020	0.01 (J)	<0.005
3/11/2021	<0.005	
3/12/2021		<0.005
9/21/2021	<0.005	<0.005
1/31/2022	<0.005	<0.005
8/30/2022	0.0063	<0.005
1/31/2023	0.00443 (J)	<0.005
8/28/2023	0.00544	<0.005
1/23/2024	0.00657	<0.005
8/19/2024	0.00709	
8/21/2024		<0.005

ND substitution: RL or RL/2 if <15% NDs.

Tolerance Limit

Constituent: Thallium (mg/L) Analysis Run 12/13/2024 1:43 PM View: Appendix IV - UTLs

Grumman Road Landfill Client: Southern Company Data: Grumman Road Landfill

	GWA-7 (bg)	GWA-8 (bg)
9/29/2000	<0.002	<0.002
11/21/2000	<0.002	
1/20/2001	<0.002	<0.002
3/14/2001	<0.002	<0.002
7/16/2001	<0.002	<0.002
11/1/2001	<0.002	<0.002
4/25/2002	<0.002	<0.002
12/12/2003	<0.002	<0.002
5/26/2004	<0.002	<0.002
12/7/2004	<0.002	<0.002
6/21/2005	<0.002	<0.002
12/12/2005	<0.002	<0.002
4/4/2006		<0.002
6/27/2006	<0.002	<0.002
8/30/2006		<0.002
12/4/2006	<0.002	<0.002
2/15/2007		<0.002
6/23/2007	<0.002	<0.002
8/30/2016		<0.002
9/1/2016	0.0005 (J)	
10/24/2016		<0.002
10/25/2016	<0.002	
1/3/2017		<0.002
1/6/2017	<0.002	
4/3/2017		<0.002
4/6/2017	<0.002	
7/11/2017		5E-05 (J)
7/13/2017	<0.002	
10/2/2017		6E-05 (J)
10/4/2017	<0.002	
1/9/2018	<0.002	<0.002
7/9/2018		<0.002
7/11/2018	<0.002	
8/26/2019	<0.002	<0.002
10/7/2019		6.2E-05 (J)
10/8/2019	<0.002	
4/6/2020	<0.002	<0.002
8/17/2020		<0.002
8/19/2020	<0.002	
9/28/2020	<0.002	<0.002
3/11/2021	<0.002	
3/12/2021		<0.002
9/21/2021	<0.002	<0.002
1/31/2022	<0.002	<0.002
8/30/2022	<0.002	<0.002
1/31/2023	<0.002	<0.002
8/28/2023	<0.002	<0.002
1/23/2024	<0.002	<0.002
8/19/2024	<0.002	
8/21/2024		<0.002

ND substitution: RL or RL/2 if <15% NDs.

Tolerance Limit

Constituent: Vanadium (mg/L) Analysis Run 12/13/2024 1:43 PM View: Appendix IV - UTLs

Grumman Road Landfill Client: Southern Company Data: Grumman Road Landfill

	GWA-7 (bg)	GWA-8 (bg)
9/29/2000	<0.02	<0.02
11/21/2000	<0.02	
1/20/2001	<0.02	<0.02
3/14/2001	<0.02	<0.02
7/16/2001	<0.02	<0.02
11/1/2001	<0.02	<0.02
4/25/2002	<0.02	<0.02
11/20/2002		<0.02
6/6/2003	0.047	0.017
12/12/2003	0.0086	0.011
5/26/2004	<0.02	<0.02
12/7/2004	<0.02	<0.02
6/21/2005	<0.02	<0.02
12/12/2005	<0.02	<0.02
4/4/2006		<0.02
6/27/2006	<0.02	<0.02
8/30/2006		<0.02
12/4/2006	0.0027	<0.02
2/15/2007		<0.02
6/23/2007	0.0027	<0.02
9/11/2007		<0.02
12/11/2007	0.0033	<0.02
3/11/2008		<0.02
6/23/2008	0.0074	<0.02
11/3/2008		<0.02
12/4/2008	0.0084	<0.02
3/25/2009		<0.02
7/7/2009	0.023	<0.02
9/14/2009		<0.02
12/20/2009	0.007	<0.02
3/4/2010		<0.02
6/20/2010	0.0047	<0.02
9/14/2010		<0.02
1/7/2011	0.018	<0.02
4/15/2011		<0.02
7/7/2011	0.019	<0.02
9/25/2011		<0.02
1/17/2012	0.0298	<0.02
4/4/2012		<0.02
7/9/2012	0.14	
7/10/2012		<0.02
10/9/2012		<0.02
1/18/2013	0.21	<0.02
4/5/2013		<0.02
7/17/2013	0.18	<0.02
10/11/2013		<0.02
1/13/2014	0.24	
1/14/2014		<0.02
4/3/2014		0.0015 (J)
7/9/2014	0.22	0.0012 (J)
10/24/2014		<0.02
1/13/2015	0.19	

ND substitution: RL or RL/2 if <15% NDs.

Tolerance Limit

Constituent: Vanadium (mg/L) Analysis Run 12/13/2024 1:43 PM View: Appendix IV - UTLs

Grumman Road Landfill Client: Southern Company Data: Grumman Road Landfill

	GWA-7 (bg)	GWA-8 (bg)
1/14/2015		<0.02
5/10/2015		<0.02
7/16/2015	0.23	
7/17/2015		<0.02
10/6/2015		0.0012 (J)
1/18/2016	0.41 (o)	0.00079 (J)
4/26/2016		<0.02
7/27/2016	0.397 (o)	
7/28/2016		<0.02
10/24/2016		<0.02
10/25/2016	0.425 (o)	
1/3/2017		<0.02
1/6/2017	0.41 (o)	
4/3/2017		<0.02
4/6/2017	0.297 (o)	
7/11/2017		<0.02
7/13/2017	0.194	
10/2/2017		<0.02
10/4/2017	0.316 (o)	
1/9/2018	0.194	0.0014 (J)
7/9/2018		<0.02
7/11/2018	0.15	
1/16/2019	0.16	<0.02
3/25/2019	0.18	<0.02
10/7/2019		<0.02
10/8/2019	0.11	
4/6/2020	0.12	<0.02
9/28/2020	0.1	<0.02
3/11/2021	0.14	
3/12/2021		<0.02
9/21/2021	0.096	<0.02
1/31/2022	0.1	<0.02
8/30/2022	0.11	0.00372 (J)
1/31/2023	0.106	<0.02
8/28/2023	0.137	0.0148 (J)
1/23/2024	0.148	0.00564 (J)
8/19/2024	0.125	
8/21/2024		<0.02

ND substitution: RL or RL/2 if <15% NDs.

Tolerance Limit

Constituent: Zinc (mg/L) Analysis Run 12/13/2024 1:43 PM View: Appendix IV - UTLs
Grumman Road Landfill Client: Southern Company Data: Grumman Road Landfill

	GWA-7 (bg)	GWA-8 (bg)
9/29/2000	<0.02	<0.02
11/21/2000	<0.02	
1/20/2001	<0.02	0.025
3/14/2001	<0.02	<0.02
7/16/2001	<0.02	<0.02
11/1/2001	<0.02	<0.02
4/25/2002	<0.02	<0.02
11/20/2002		0.016
6/6/2003	0.69 (O)	0.032
12/12/2003	0.12	0.019
5/26/2004	0.013	<0.02
12/7/2004	<0.02	<0.02
6/21/2005	<0.02	<0.02
12/12/2005	0.014	0.01
4/4/2006		<0.02
6/27/2006	0.01	0.0043
8/30/2006		0.017
12/4/2006	0.0065	0.0053
2/15/2007		0.0045
6/23/2007	0.0049	0.0043
9/11/2007		0.004
12/11/2007	0.0043	0.0048
3/11/2008		0.0043
6/23/2008	0.0025	0.0037
11/3/2008		0.0032
12/4/2008	0.0025	0.0029
3/25/2009		0.0055
7/7/2009	<0.02	0.0028
9/14/2009		0.0027
12/20/2009	0.0031	0.0029
3/4/2010		0.0042
6/20/2010	<0.02	0.0027
9/14/2010		<0.02
1/7/2011	<0.02	0.0032
4/15/2011		<0.02
7/7/2011	0.0031	0.005
9/25/2011		0.0041
1/17/2012	0.004	0.0043
4/4/2012		<0.02
7/9/2012	0.0096	
7/10/2012		0.0028
10/9/2012		0.0033
1/18/2013	0.051	0.0038
4/5/2013		0.0026
7/17/2013	0.042	<0.02
10/11/2013		0.0046
1/13/2014	0.0025	
1/14/2014		0.0025
4/3/2014		0.0029
7/9/2014	0.064	0.002 (J)
10/24/2014		0.0031
1/13/2015	0.066	

ND substitution: RL or RL/2 if <15% NDs.

Tolerance Limit

Constituent: Zinc (mg/L) Analysis Run 12/13/2024 1:43 PM View: Appendix IV - UTLs

Grumman Road Landfill Client: Southern Company Data: Grumman Road Landfill

	GWA-7 (bg)	GWA-8 (bg)
1/14/2015		0.003
5/10/2015		0.0028
7/16/2015	0.036	
7/17/2015		0.0018 (J)
10/6/2015		0.0018 (J)
1/18/2016	0.035	0.0028
4/26/2016		<0.02
7/27/2016	0.0529	
7/28/2016		0.0018 (J)
10/24/2016		0.0024 (J)
10/25/2016	0.0035 (J)	
1/3/2017		0.0035 (J)
1/6/2017	0.0235	
4/3/2017		0.0041 (J)
4/6/2017	0.0829	
7/11/2017		0.0029 (J)
7/13/2017	0.0853	
10/2/2017		0.0026 (J)
10/4/2017	0.0263	
1/9/2018	0.0665	0.0035 (J)
7/9/2018		0.0022 (J)
7/11/2018	0.02 (J)	
1/16/2019	0.014 (J)	0.0037 (J)
3/25/2019	<0.05 (O)	<0.02
10/7/2019		0.0077 (J)
10/8/2019	0.095	
4/6/2020	<0.02	<0.02
9/28/2020	0.16	0.0092 (J)
3/11/2021	0.054	
3/12/2021		0.0028 (J)
9/21/2021	<0.02	<0.02
1/31/2022	<0.02	<0.02
8/30/2022	0.011 (J)	<0.02
1/31/2023	0.00457 (J)	<0.02
8/28/2023	0.00851 (J)	<0.02
1/23/2024	0.00392 (J)	<0.02
8/19/2024	0.00727 (J)	
8/21/2024		0.0123 (J)

ND substitution: RL or RL/2 if <15% NDs.

FIGURE I.

GRUMMAN ROAD LANDFILL GWPS				
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		0.029	0.029
Barium, Total (mg/L)	2		0.24	2
Beryllium, Total (mg/L)	0.004		0.0017	0.004
Cadmium, Total (mg/L)	0.005		0.001	0.005
Chromium, Total (mg/L)	0.1		0.068	0.1
Cobalt, Total (mg/L)	n/a	0.006	0.010	0.010
Combined Radium, Total (pCi/L)	5		11.27	11.27
Fluoride, Total (mg/L)	4		0.49	4
Lead, Total (mg/L)	n/a	0.015	0.013	0.015
Lithium, Total (mg/L)	n/a	0.04	0.03	0.04
Mercury, Total (mg/L)	0.002		0.0002	0.002
Molybdenum, Total (mg/L)	n/a	0.1	0.0098	0.1
Selenium, Total (mg/L)	0.05		0.044	0.05
Thallium, Total (mg/L)	0.002		0.002	0.002
Vanadium, Total (mg/L)	n/a		0.24	0.24
Zinc, Total (mg/L)	n/a		0.16	0.16

**Highlighted cells indicated Background is higher than MCLs*

**MCL = Maximum Contaminant Level*

**CCR = Coal Combustion Residuals*

**GWPS = Groundwater Protection Standard*

FIGURE J.

Confidence Intervals - Significant Results

Grumman Road Landfill Client: Southern Company Data: Grumman Road Landfill Printed 12/13/2024, 1:56 PM

Constituent	Well	Upper Lim.	Lower Lim.	Compliance	Sig.	N	Mean	Std. Dev.	%NDs	ND Adj.	Transform	Alpha	Method
Arsenic (mg/L)	**GWC-15**	**0.2622**	**0.1844**	**0.029**	**Yes**	**10**	**0.2233**	**0.04357**	**0**	**None**	**No**	**0.01**	**Param.**
Arsenic (mg/L)	**GWC-16**	**0.09317**	**0.06865**	**0.029**	**Yes**	**26**	**0.08091**	**0.02515**	**0**	**None**	**No**	**0.01**	**Param.**
Arsenic (mg/L)	**GWC-20**	**0.3761**	**0.2885**	**0.029**	**Yes**	**25**	**0.3323**	**0.08791**	**0**	**None**	**No**	**0.01**	**Param.**
Molybdenum (mg/L)	**GWB-4R**	**0.1643**	**0.1137**	**0.1**	**Yes**	**10**	**0.139**	**0.02839**	**0**	**None**	**No**	**0.01**	**Param.**
Molybdenum (mg/L)	**GWC-16**	**0.1909**	**0.1221**	**0.1**	**Yes**	**21**	**0.1565**	**0.06235**	**0**	**None**	**No**	**0.01**	**Param.**
Molybdenum (mg/L)	**GWC-20**	**0.4148**	**0.1787**	**0.1**	**Yes**	**21**	**0.2968**	**0.214**	**0**	**None**	**No**	**0.01**	**Param.**

Confidence Intervals - All Results

Grumman Road Landfill Client: Southern Company Data: Grumman Road Landfill Printed 12/13/2024, 1:56 PM

Constituent	Well	Upper Lim.	Lower Lim.	Compliance	Sig.	N	Mean	Std. Dev.	%NDs	ND Adj.	Transform	Alpha	Method
Antimony (mg/L)	GWB-4R	0.003	0.0003	0.006	No	25	0.002892	0.00054	96	None	No	0.01	NP (NDs)
Antimony (mg/L)	GWB-5R	0.003	0.0013	0.006	No	25	0.002726	0.0007732	88	None	No	0.01	NP (NDs)
Antimony (mg/L)	GWB-6R	0.003	0.00059	0.006	No	25	0.002795	0.0007102	92	None	No	0.01	NP (NDs)
Antimony (mg/L)	GWC-1	0.003	0.0016	0.006	No	25	0.00265	0.0008408	84	None	No	0.01	NP (NDs)
Antimony (mg/L)	GWC-11	0.003	0.00066	0.006	No	25	0.002042	0.001201	60	None	No	0.01	NP (NDs)
Antimony (mg/L)	GWC-12	0.003	0.0003	0.006	No	25	0.002892	0.00054	96	None	No	0.01	NP (NDs)
Antimony (mg/L)	GWC-13	0.003	0.0006	0.006	No	25	0.002904	0.00048	96	None	No	0.01	NP (NDs)
Antimony (mg/L)	GWC-15	0.003	0.0018	0.006	No	25	0.002952	0.00024	96	None	No	0.01	NP (NDs)
Antimony (mg/L)	GWC-17	0.003	0.00286	0.006	No	25	0.002804	0.0006032	84	None	No	0.01	NP (NDs)
Antimony (mg/L)	GWC-2	0.003	0.0016	0.006	No	25	0.002876	0.0004314	92	None	No	0.01	NP (NDs)
Antimony (mg/L)	GWC-20	0.003	0.0019	0.006	No	25	0.002862	0.0005106	92	None	No	0.01	NP (NDs)
Antimony (mg/L)	GWC-21	0.003	0.00033	0.006	No	25	0.002893	0.000534	96	None	No	0.01	NP (NDs)
Antimony (mg/L)	GWC-22	0.003	0.0022	0.006	No	25	0.002606	0.0008726	80	None	No	0.01	NP (NDs)
Antimony (mg/L)	GWC-9	0.003	0.0016	0.006	No	25	0.002837	0.0005925	92	None	No	0.01	NP (NDs)
Arsenic (mg/L)	GWB-4R	0.00363	0.002137	0.029	No	25	0.003024	0.00174	8	None	sqrt(x)	0.01	Param.
Arsenic (mg/L)	GWB-5R	0.002454	0.001267	0.029	No	25	0.002722	0.001823	20	Kaplan-Meier	sqrt(x)	0.01	Param.
Arsenic (mg/L)	GWB-6R	0.003985	0.001823	0.029	No	25	0.007982	0.008968	20	Kaplan-Meier	ln(x)	0.01	Param.
Arsenic (mg/L)	GWC-1	0.006268	0.002872	0.029	No	25	0.005979	0.006406	0	None	ln(x)	0.01	Param.
Arsenic (mg/L)	GWC-11	0.005	0.00254	0.029	No	25	0.004902	0.000492	96	None	No	0.01	NP (NDs)
Arsenic (mg/L)	GWC-12	0.005	0.0016	0.029	No	25	0.004356	0.001514	84	None	No	0.01	NP (NDs)
Arsenic (mg/L)	GWC-13	0.005	0.0025	0.029	No	25	0.004547	0.001291	88	None	No	0.01	NP (NDs)
Arsenic (mg/L)	GWC-14	0.002254	0.001723	0.029	No	26	0.002682	0.001253	19.23	Kaplan-Meier	ln(x)	0.01	Param.
Arsenic (mg/L)	**GWC-15**	**0.2622**	**0.1844**	**0.029**	**Yes**	**10**	**0.2233**	**0.04357**	**0**	**None**	**No**	**0.01**	**Param.**
Arsenic (mg/L)	**GWC-16**	**0.09317**	**0.06865**	**0.029**	**Yes**	**26**	**0.08091**	**0.02515**	**0**	**None**	**No**	**0.01**	**Param.**
Arsenic (mg/L)	GWC-17	0.005	0.0012	0.029	No	25	0.003197	0.001928	52	None	No	0.01	NP (NDs)
Arsenic (mg/L)	GWC-2	0.005	0.00094	0.029	No	25	0.004477	0.001447	88	None	No	0.01	NP (NDs)
Arsenic (mg/L)	**GWC-20**	**0.3761**	**0.2885**	**0.029**	**Yes**	**25**	**0.3323**	**0.08791**	**0**	**None**	**No**	**0.01**	**Param.**
Arsenic (mg/L)	GWC-21	0.00929	0.0033	0.029	No	25	0.0095	0.01022	28	None	No	0.01	NP (normality)
Arsenic (mg/L)	GWC-22	0.005	0.0017	0.029	No	25	0.003509	0.001922	60	None	No	0.01	NP (NDs)
Arsenic (mg/L)	GWC-9	0.005	0.00084	0.029	No	25	0.004834	0.000832	96	None	No	0.01	NP (NDs)
Arsenic (mg/L)	MW-25D	0.005	0.00092	0.029	No	9	0.004547	0.00136	88.89	None	No	0.002	NP (NDs)
Arsenic (mg/L)	MW-26D	0.005	0.001	0.029	No	5	0.0035	0.002062	60	None	No	0.031	NP (NDs)
Barium (mg/L)	GWB-4R	0.101	0.077	2	No	25	0.1037	0.03821	0	None	No	0.01	NP (normality)
Barium (mg/L)	GWB-5R	0.1368	0.0886	2	No	25	0.1165	0.05381	0	None	sqrt(x)	0.01	Param.
Barium (mg/L)	GWB-6R	0.105	0.0233	2	No	25	0.06041	0.04144	0	None	No	0.01	NP (normality)
Barium (mg/L)	GWC-1	0.05665	0.05093	2	No	25	0.05379	0.005741	0	None	No	0.01	Param.
Barium (mg/L)	GWC-11	0.1292	0.08376	2	No	25	0.1065	0.04558	0	None	No	0.01	Param.
Barium (mg/L)	GWC-12	0.0229	0.01831	2	No	25	0.02079	0.004778	0	None	sqrt(x)	0.01	Param.
Barium (mg/L)	GWC-13	0.03479	0.02314	2	No	25	0.03017	0.01374	0	None	x^(1/3)	0.01	Param.
Barium (mg/L)	GWC-14	0.067	0.026	2	No	26	0.04603	0.02646	0	None	No	0.01	NP (normality)
Barium (mg/L)	GWC-15	0.05127	0.04226	2	No	25	0.04676	0.009046	0	None	No	0.01	Param.
Barium (mg/L)	GWC-16	0.1583	0.09125	2	No	26	0.1248	0.06881	0	None	No	0.01	Param.
Barium (mg/L)	GWC-17	0.07845	0.04041	2	No	25	0.07085	0.05368	0	None	ln(x)	0.01	Param.
Barium (mg/L)	GWC-2	0.0529	0.049	2	No	24	0.05213	0.006923	0	None	No	0.01	NP (normality)
Barium (mg/L)	GWC-20	0.208	0.1127	2	No	25	0.1749	0.1105	0	None	x^(1/3)	0.01	Param.
Barium (mg/L)	GWC-21	0.138	0.06886	2	No	25	0.1152	0.07785	0	None	x^(1/3)	0.01	Param.
Barium (mg/L)	GWC-22	0.0881	0.0571	2	No	25	0.0726	0.0311	0	None	No	0.01	Param.
Barium (mg/L)	GWC-9	0.2316	0.1695	2	No	25	0.2006	0.06228	0	None	No	0.01	Param.
Barium (mg/L)	MW-23D	0.07945	0.06062	2	No	8	0.07004	0.008882	0	None	No	0.01	Param.
Barium (mg/L)	MW-24D	0.04046	0.0256	2	No	8	0.03294	0.007271	0	None	sqrt(x)	0.01	Param.
Barium (mg/L)	MW-25D	0.02833	0.02229	2	No	8	0.02531	0.00285	0	None	No	0.01	Param.
Barium (mg/L)	MW-26D	0.03695	0.02241	2	No	5	0.02968	0.004338	0	None	No	0.01	Param.
Beryllium (mg/L)	GWB-4R	0.0005	0.0004	0.004	No	21	0.0004	0.0001732	71.43	None	No	0.01	NP (NDs)
Beryllium (mg/L)	GWB-5R	0.0005	0.0001	0.004	No	21	0.0002925	0.00018	38.1	None	No	0.01	NP (normality)
Beryllium (mg/L)	GWB-6R	0.0005	0.00005	0.004	No	21	0.000457	0.000136	90.48	None	No	0.01	NP (NDs)

Confidence Intervals - All Results

Grumman Road Landfill Client: Southern Company Data: Grumman Road Landfill Printed 12/13/2024, 1:56 PM

Constituent	Well	Upper Lim.	Lower Lim.	Compliance	Sig.	N	Mean	Std. Dev.	%NDs	ND Adj.	Transform	Alpha	Method
Beryllium (mg/L)	GWC-11	0.0005	0.000047	0.004	No	21	0.0004784	0.00009885	95.24	None	No	0.01	NP (NDs)
Beryllium (mg/L)	GWC-12	0.0007221	0.0005262	0.004	No	21	0.0006357	0.0001968	0	None	x^(1/3)	0.01	Param.
Beryllium (mg/L)	GWC-13	0.0005	0.000058	0.004	No	21	0.000479	0.00009645	95.24	None	No	0.01	NP (NDs)
Beryllium (mg/L)	GWC-14	0.0005	0.0001	0.004	No	21	0.0004406	0.0001493	85.71	None	No	0.01	NP (NDs)
Beryllium (mg/L)	GWC-16	0.0005	0.000089	0.004	No	21	0.0003017	0.0002134	52.38	None	No	0.01	NP (NDs)
Beryllium (mg/L)	GWC-17	0.002446	0.001663	0.004	No	21	0.00211	0.0007879	0	None	x^(1/3)	0.01	Param.
Beryllium (mg/L)	GWC-2	0.0005	0.0003	0.004	No	22	0.0003944	0.0001822	72.73	None	No	0.01	NP (NDs)
Beryllium (mg/L)	GWC-22	0.0005	0.0001	0.004	No	21	0.0003731	0.0001864	66.67	None	No	0.01	NP (NDs)
Beryllium (mg/L)	GWC-9	0.0002606	0.0002104	0.004	No	21	0.0002369	0.00004606	14.29	None	sqrt(x)	0.01	Param.
Beryllium (mg/L)	MW-25D	0.0005	0.000084	0.004	No	8	0.000448	0.0001471	87.5	None	No	0.004	NP (NDs)
Beryllium (mg/L)	MW-26D	0.0005	0.000073	0.004	No	5	0.0002522	0.0002264	40	None	No	0.031	NP (normality)
Cadmium (mg/L)	GWB-4R	0.001	0.000304	0.005	No	21	0.000804	0.0003615	76.19	None	No	0.01	NP (NDs)
Cadmium (mg/L)	GWC-1	0.001	0.0001	0.005	No	21	0.0009129	0.0002753	90.48	None	No	0.01	NP (NDs)
Cadmium (mg/L)	GWC-11	0.0005775	0.0003231	0.005	No	21	0.0004503	0.0002306	9.524	None	No	0.01	Param.
Cadmium (mg/L)	GWC-14	0.001	0.0002	0.005	No	21	0.0007233	0.0004016	66.67	None	No	0.01	NP (NDs)
Cadmium (mg/L)	GWC-20	0.001	0.000823	0.005	No	21	0.000873	0.0002968	80.95	None	No	0.01	NP (NDs)
Cadmium (mg/L)	GWC-22	0.001	0.0002	0.005	No	21	0.0006214	0.0004166	52.38	None	No	0.01	NP (NDs)
Cadmium (mg/L)	MW-23D	0.001	0.00027	0.005	No	8	0.0009088	0.0002581	87.5	None	No	0.004	NP (NDs)
Cadmium (mg/L)	MW-25D	0.001	0.00019	0.005	No	8	0.0008988	0.0002864	87.5	None	No	0.004	NP (NDs)
Cadmium (mg/L)	MW-26D	0.001	0.00029	0.005	No	5	0.0007812	0.000321	60	None	No	0.031	NP (NDs)
Chromium (mg/L)	GWB-4R	0.007388	0.003653	0.1	No	25	0.005987	0.004063	4	None	sqrt(x)	0.01	Param.
Chromium (mg/L)	GWB-5R	0.004358	0.001357	0.1	No	25	0.008307	0.01398	28	Kaplan-Meier	ln(x)	0.01	Param.
Chromium (mg/L)	GWB-6R	0.005855	0.002529	0.1	No	25	0.004928	0.004605	0	None	x^(1/3)	0.01	Param.
Chromium (mg/L)	GWC-1	0.00337	0.0018	0.1	No	25	0.003795	0.003299	20	None	No	0.01	NP (normality)
Chromium (mg/L)	GWC-11	0.01	0.00094	0.1	No	25	0.005643	0.004617	48	None	No	0.01	NP (normality)
Chromium (mg/L)	GWC-12	0.01	0.001	0.1	No	25	0.004386	0.004316	36	None	No	0.01	NP (normality)
Chromium (mg/L)	GWC-13	0.01	0.0008	0.1	No	25	0.006731	0.004455	64	None	No	0.01	NP (NDs)
Chromium (mg/L)	GWC-14	0.01	0.0009	0.1	No	26	0.005795	0.004636	53.85	None	No	0.01	NP (NDs)
Chromium (mg/L)	GWC-15	0.01	0.0014	0.1	No	25	0.005248	0.004317	44	None	No	0.01	NP (normality)
Chromium (mg/L)	GWC-16	0.01	0.0011	0.1	No	26	0.005872	0.004551	50	None	No	0.01	NP (normality)
Chromium (mg/L)	GWC-17	0.01	0.00096	0.1	No	25	0.00518	0.00445	44	None	No	0.01	NP (normality)
Chromium (mg/L)	GWC-2	0.01	0.001	0.1	No	25	0.007045	0.004398	68	None	No	0.01	NP (NDs)
Chromium (mg/L)	GWC-20	0.01	0.001	0.1	No	25	0.005245	0.004397	44	None	No	0.01	NP (normality)
Chromium (mg/L)	GWC-21	0.01	0.00075	0.1	No	25	0.00629	0.00464	56	None	No	0.01	NP (NDs)
Chromium (mg/L)	GWC-22	0.01	0.00064	0.1	No	25	0.006615	0.004606	64	None	No	0.01	NP (NDs)
Chromium (mg/L)	GWC-9	0.01	0.0011	0.1	No	25	0.005468	0.004455	48	None	No	0.01	NP (normality)
Chromium (mg/L)	MW-24D	0.01	0.00069	0.1	No	8	0.008836	0.003292	87.5	None	No	0.004	NP (NDs)
Chromium (mg/L)	MW-25D	0.01	0.0016	0.1	No	8	0.00895	0.00297	87.5	None	No	0.004	NP (NDs)
Chromium (mg/L)	MW-26D	0.01	0.002	0.1	No	5	0.0084	0.003578	80	None	No	0.031	NP (NDs)
Cobalt (mg/L)	GWB-4R	0.0025	0.0008	0.01	No	21	0.002829	0.003688	9.524	None	No	0.01	NP (normality)
Cobalt (mg/L)	GWB-5R	0.003751	0.00121	0.01	No	21	0.004922	0.005005	33.33	Kaplan-Meier	x^(1/3)	0.01	Param.
Cobalt (mg/L)	GWB-6R	0.0629	0.006526	0.01	No	8	0.03471	0.02659	12.5	None	No	0.01	Param.
Cobalt (mg/L)	GWC-11	0.001	0.000646	0.01	No	21	0.0008672	0.0002391	61.9	None	No	0.01	NP (NDs)
Cobalt (mg/L)	GWC-12	0.00115	0.0007744	0.01	No	21	0.0009624	0.0003408	0	None	No	0.01	Param.
Cobalt (mg/L)	GWC-14	0.001	0.0003	0.01	No	21	0.0009667	0.0001528	95.24	None	No	0.01	NP (NDs)
Cobalt (mg/L)	GWC-17	0.004861	0.002816	0.01	No	21	0.003986	0.001976	0	None	sqrt(x)	0.01	Param.
Cobalt (mg/L)	GWC-2	0.001	0.00036	0.01	No	22	0.0008809	0.0002717	77.27	None	No	0.01	NP (NDs)
Cobalt (mg/L)	GWC-22	0.001	0.000817	0.01	No	21	0.000917	0.0001626	66.67	None	No	0.01	NP (NDs)
Cobalt (mg/L)	GWC-9	0.0017	0.00093	0.01	No	21	0.001232	0.000406	0	None	No	0.01	NP (normality)
Combined Radium 226 + 228 (pCi/L)	GWB-4R	4.705	3.042	11.27	No	21	3.873	1.507	0	None	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	GWB-5R	3.846	2.404	11.27	No	21	3.215	1.453	0	None	sqrt(x)	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	GWB-6R	5.477	3.307	11.27	No	21	4.392	1.966	0	None	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	GWC-1	2.327	1.494	11.27	No	21	1.911	0.7552	0	None	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	GWC-11	6.623	3.972	11.27	No	21	5.298	2.403	0	None	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	GWC-12	2.685	1.718	11.27	No	21	2.201	0.8764	0	None	No	0.01	Param.

Confidence Intervals - All Results

Grumman Road Landfill Client: Southern Company Data: Grumman Road Landfill Printed 12/13/2024, 1:56 PM

Constituent	Well	Upper Lim.	Lower Lim.	Compliance	Sig.	N	Mean	Std. Dev.	%NDs	ND Adj.	Transform	Alpha	Method
Combined Radium 226 + 228 (pCi/L)	GWC-13	1.727	1.011	11.27	No	21	1.369	0.6489	0	None	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	GWC-14	1.348	0.7195	11.27	No	21	1.034	0.5696	0	None	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	GWC-15	2.02	1.19	11.27	No	21	1.605	0.7521	0	None	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	GWC-16	3.057	2.015	11.27	No	21	2.536	0.9444	0	None	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	GWC-17	3.632	2.482	11.27	No	21	3.057	1.042	0	None	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	GWC-2	1.34	0.7452	11.27	No	21	1.089	0.5815	0	None	sqrt(x)	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	GWC-20	4.564	2.485	11.27	No	21	3.525	1.884	0	None	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	GWC-21	2.985	1.638	11.27	No	21	2.311	1.221	0	None	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	GWC-22	6.51	3.618	11.27	No	21	5.064	2.621	0	None	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	GWC-9	3.449	2.028	11.27	No	21	2.838	1.498	0	None	sqrt(x)	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	MW-23D	2.658	0.7616	11.27	No	8	1.71	0.8944	0	None	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	MW-24D	3.322	0.688	11.27	No	8	2.005	1.243	0	None	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	MW-25D	2.105	0.2486	11.27	No	8	1.177	0.8759	0	None	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	MW-26D	2.17	-0.03951	11.27	No	5	1.065	0.6594	0	None	No	0.01	Param.
Fluoride (mg/L)	GWB-4R	0.17	0.08	4	No	23	0.1554	0.2366	69.57	None	No	0.01	NP (NDs)
Fluoride (mg/L)	GWB-5R	0.1	0.05	4	No	23	0.085	0.03793	47.83	None	No	0.01	NP (normality)
Fluoride (mg/L)	GWB-6R	0.11	0.09	4	No	23	0.1112	0.05574	52.17	None	No	0.01	NP (NDs)
Fluoride (mg/L)	GWC-1	0.18	0.0596	4	No	23	0.1022	0.03588	78.26	None	No	0.01	NP (NDs)
Fluoride (mg/L)	GWC-12	0.5704	0.2408	4	No	23	0.4493	0.3621	4.348	None	sqrt(x)	0.01	Param.
Fluoride (mg/L)	GWC-13	0.1	0.09	4	No	23	0.1102	0.09788	73.91	None	No	0.01	NP (NDs)
Fluoride (mg/L)	GWC-14	0.13	0.1	4	No	23	0.1557	0.1152	73.91	None	No	0.01	NP (NDs)
Fluoride (mg/L)	GWC-15	0.13	0.1	4	No	23	0.1243	0.0868	78.26	None	No	0.01	NP (NDs)
Fluoride (mg/L)	GWC-16	0.11	0.1	4	No	23	0.1621	0.188	60.87	None	No	0.01	NP (NDs)
Fluoride (mg/L)	GWC-17	1.042	0.5318	4	No	23	0.8398	0.5171	4.348	None	sqrt(x)	0.01	Param.
Fluoride (mg/L)	GWC-2	0.1	0.08	4	No	23	0.1145	0.1131	60.87	None	No	0.01	NP (NDs)
Fluoride (mg/L)	GWC-20	0.14	0.043	4	No	23	0.09613	0.02949	78.26	None	No	0.01	NP (NDs)
Fluoride (mg/L)	GWC-21	0.1	0.071	4	No	23	0.09874	0.006047	95.65	None	No	0.01	NP (NDs)
Fluoride (mg/L)	GWC-22	0.12	0.1	4	No	23	0.0933	0.0218	69.57	None	No	0.01	NP (NDs)
Fluoride (mg/L)	GWC-9	0.195	0.08871	4	No	23	0.1835	0.2054	8.696	None	ln(x)	0.01	Param.
Fluoride (mg/L)	MW-23D	0.09012	0.03521	4	No	9	0.083	0.03114	44.44	Kaplan-Meier	No	0.01	Param.
Fluoride (mg/L)	MW-24D	0.147	0.037	4	No	9	0.09822	0.02773	77.78	Kaplan-Meier	No	0.002	NP (NDs)
Fluoride (mg/L)	MW-25D	0.1942	0.1	4	No	9	0.1471	0.04877	0	None	No	0.01	Param.
Fluoride (mg/L)	MW-26D	0.1	0.0444	4	No	6	0.09073	0.0227	83.33	None	No	0.0155	NP (NDs)
Lead (mg/L)	GWB-4R	0.002872	0.0007123	0.015	No	24	0.003041	0.002552	37.5	Kaplan-Meier	sqrt(x)	0.01	Param.
Lead (mg/L)	GWB-5R	0.002	0.0003	0.015	No	25	0.001286	0.0008684	48	None	No	0.01	NP (normality)
Lead (mg/L)	GWB-6R	0.002	0.0003	0.015	No	25	0.001259	0.0008754	56	None	No	0.01	NP (NDs)
Lead (mg/L)	GWC-1	0.002	0.00012	0.015	No	25	0.001695	0.0007145	84	None	No	0.01	NP (NDs)
Lead (mg/L)	GWC-11	0.002	0.00021	0.015	No	25	0.0008884	0.0008538	36	None	No	0.01	NP (normality)
Lead (mg/L)	GWC-12	0.002	0.0001	0.015	No	25	0.001156	0.001049	48	None	No	0.01	NP (normality)
Lead (mg/L)	GWC-13	0.002	0.0002	0.015	No	25	0.001183	0.000855	48	None	No	0.01	NP (normality)
Lead (mg/L)	GWC-14	0.002	0.00051	0.015	No	26	0.001723	0.0006671	84.62	None	No	0.01	NP (NDs)
Lead (mg/L)	GWC-15	0.002	0.00012	0.015	No	25	0.001261	0.0009257	60	None	No	0.01	NP (NDs)
Lead (mg/L)	GWC-16	0.002	0.00017	0.015	No	26	0.001141	0.000947	53.85	None	No	0.01	NP (NDs)
Lead (mg/L)	GWC-17	0.002	0.00019	0.015	No	25	0.001429	0.0008629	68	None	No	0.01	NP (NDs)
Lead (mg/L)	GWC-2	0.002	0.0003	0.015	No	25	0.001555	0.0008088	76	None	No	0.01	NP (NDs)
Lead (mg/L)	GWC-20	0.002	0.0002	0.015	No	25	0.001625	0.0007667	80	None	No	0.01	NP (NDs)
Lead (mg/L)	GWC-21	0.002	0.00018	0.015	No	25	0.001401	0.0008927	68	None	No	0.01	NP (NDs)
Lead (mg/L)	GWC-22	0.0007045	0.0003141	0.015	No	25	0.001031	0.000829	28	Kaplan-Meier	x^(1/3)	0.01	Param.
Lead (mg/L)	GWC-9	0.002	0.0002	0.015	No	25	0.001345	0.0008996	64	None	No	0.01	NP (NDs)
Lead (mg/L)	MW-23D	0.002	0.000057	0.015	No	8	0.001757	0.000687	87.5	None	No	0.004	NP (NDs)
Lead (mg/L)	MW-24D	0.002	0.000094	0.015	No	8	0.001762	0.0006739	87.5	None	No	0.004	NP (NDs)
Lead (mg/L)	MW-25D	0.002	0.000095	0.015	No	8	0.001762	0.0006735	87.5	None	No	0.004	NP (NDs)
Lead (mg/L)	MW-26D	0.002	0.00015	0.015	No	5	0.00163	0.0008273	80	None	No	0.031	NP (NDs)
Lithium (mg/L)	GWB-4R	0.01499	0.008432	0.04	No	21	0.01171	0.005942	0	None	No	0.01	Param.
Lithium (mg/L)	GWB-5R	0.03	0.0042	0.04	No	21	0.02127	0.01267	66.67	None	No	0.01	NP (NDs)

Confidence Intervals - All Results

Grumman Road Landfill Client: Southern Company Data: Grumman Road Landfill Printed 12/13/2024, 1:56 PM

Constituent	Well	Upper Lim.	Lower Lim.	Compliance	Sig.	N	Mean	Std. Dev.	%NDs	ND Adj.	Transform	Alpha	Method
Lithium (mg/L)	GWC-12	0.03	0.00094	0.04	No	21	0.01618	0.01485	52.38	None	No	0.01	NP (NDs)
Lithium (mg/L)	GWC-13	0.03	0.00087	0.04	No	21	0.02722	0.008777	90.48	None	No	0.01	NP (NDs)
Lithium (mg/L)	GWC-17	0.006468	0.005128	0.04	No	21	0.005798	0.001215	0	None	No	0.01	Param.
Lithium (mg/L)	GWC-9	0.0023	0.0018	0.04	No	20	0.00893	0.01248	25	None	No	0.01	NP (normality)
Mercury (mg/L)	GWB-4R	0.000487	0.0001	0.002	No	18	0.000202	0.00008228	83.33	None	No	0.01	NP (NDs)
Mercury (mg/L)	GWB-5R	0.0002	0.000135	0.002	No	19	0.0001854	0.00003569	84.21	None	No	0.01	NP (NDs)
Mercury (mg/L)	GWB-6R	0.0002	0.0001	0.002	No	18	0.0001857	0.00004269	88.89	None	No	0.01	NP (NDs)
Mercury (mg/L)	GWC-1	0.0002	0.0001	0.002	No	18	0.0001856	0.00004328	88.89	None	No	0.01	NP (NDs)
Mercury (mg/L)	GWC-11	0.0002	0.0001	0.002	No	18	0.0001944	0.00002357	94.44	None	No	0.01	NP (NDs)
Mercury (mg/L)	GWC-12	0.0002	0.0001	0.002	No	18	0.0001944	0.00002357	94.44	None	No	0.01	NP (NDs)
Mercury (mg/L)	GWC-13	0.0002	0.00013	0.002	No	18	0.0001906	0.00002796	88.89	None	No	0.01	NP (NDs)
Mercury (mg/L)	GWC-14	0.0002	0.00011	0.002	No	18	0.000195	0.00002121	94.44	None	No	0.01	NP (NDs)
Mercury (mg/L)	GWC-15	0.0002	0.0001	0.002	No	18	0.0001944	0.00002357	94.44	None	No	0.01	NP (NDs)
Mercury (mg/L)	GWC-16	0.0002	0.0001	0.002	No	18	0.0001944	0.00002357	94.44	None	No	0.01	NP (NDs)
Mercury (mg/L)	GWC-17	0.0002	0.000172	0.002	No	18	0.0001934	0.00002184	88.89	None	No	0.01	NP (NDs)
Mercury (mg/L)	GWC-2	0.0002	0.0001	0.002	No	19	0.0001947	0.00002294	94.74	None	No	0.01	NP (NDs)
Mercury (mg/L)	GWC-20	0.0002	0.00011	0.002	No	18	0.000195	0.00002121	94.44	None	No	0.01	NP (NDs)
Mercury (mg/L)	GWC-21	0.0002	0.00011	0.002	No	18	0.000195	0.00002121	94.44	None	No	0.01	NP (NDs)
Mercury (mg/L)	GWC-22	0.0002	0.0001	0.002	No	18	0.0001944	0.00002357	94.44	None	No	0.01	NP (NDs)
Mercury (mg/L)	GWC-9	0.0002	0.00011	0.002	No	18	0.0001867	0.00004015	88.89	None	No	0.01	NP (NDs)
Mercury (mg/L)	MW-23D	0.0002	0.00011	0.002	No	7	0.0001871	0.00003402	85.71	None	No	0.008	NP (NDs)
Mercury (mg/L)	MW-24D	0.0002	0.0001	0.002	No	7	0.0001857	0.0000378	85.71	None	No	0.008	NP (NDs)
Mercury (mg/L)	MW-25D	0.0002	0.0001	0.002	No	7	0.0001857	0.0000378	85.71	None	No	0.008	NP (NDs)
Mercury (mg/L)	MW-26D	0.0002	0.0001	0.002	No	4	0.000175	0.00005	75	None	No	0.0625	NP (NDs)
Molybdenum (mg/L)	**GWB-4R**	**0.1643**	**0.1137**	**0.1**	**Yes**	**10**	**0.139**	**0.02839**	**0**	**None**	**No**	**0.01**	**Param.**
Molybdenum (mg/L)	GWB-5R	0.0012	0.00069	0.1	No	21	0.001022	0.0002554	80.95	None	No	0.01	NP (NDs)
Molybdenum (mg/L)	GWB-6R	0.01	0.000729	0.1	No	21	0.005691	0.00465	52.38	None	No	0.01	NP (NDs)
Molybdenum (mg/L)	GWC-1	0.1166	0.04884	0.1	No	21	0.09046	0.06659	0	None	sqrt(x)	0.01	Param.
Molybdenum (mg/L)	GWC-11	0.01	0.00077	0.1	No	21	0.00693	0.004457	66.67	None	No	0.01	NP (NDs)
Molybdenum (mg/L)	GWC-12	0.001	0.000205	0.1	No	21	0.0009621	0.0001735	95.24	None	No	0.01	NP (NDs)
Molybdenum (mg/L)	GWC-13	0.0056	0.001	0.1	No	21	0.001219	0.001004	95.24	None	No	0.01	NP (NDs)
Molybdenum (mg/L)	GWC-14	0.01634	0.006414	0.1	No	21	0.01138	0.009	0	None	No	0.01	Param.
Molybdenum (mg/L)	GWC-15	0.104	0.08338	0.1	No	21	0.09368	0.01867	0	None	No	0.01	Param.
Molybdenum (mg/L)	**GWC-16**	**0.1909**	**0.1221**	**0.1**	**Yes**	**21**	**0.1565**	**0.06235**	**0**	**None**	**No**	**0.01**	**Param.**
Molybdenum (mg/L)	GWC-17	0.01	0.00312	0.1	No	21	0.005937	0.003378	38.1	None	No	0.01	NP (normality)
Molybdenum (mg/L)	GWC-2	0.001	0.000312	0.1	No	22	0.0009687	0.0001467	95.45	None	No	0.01	NP (NDs)
Molybdenum (mg/L)	**GWC-20**	**0.4148**	**0.1787**	**0.1**	**Yes**	**21**	**0.2968**	**0.214**	**0**	**None**	**No**	**0.01**	**Param.**
Molybdenum (mg/L)	GWC-21	0.0525	0.02341	0.1	No	21	0.03796	0.02637	0	None	No	0.01	Param.
Molybdenum (mg/L)	GWC-22	0.001	0.000334	0.1	No	21	0.0009683	0.0001453	95.24	None	No	0.01	NP (NDs)
Molybdenum (mg/L)	MW-23D	0.001	0.000408	0.1	No	9	0.0009342	0.0001973	88.89	None	No	0.002	NP (NDs)
Molybdenum (mg/L)	MW-24D	0.002703	0.0008955	0.1	No	9	0.001793	0.001008	0	None	sqrt(x)	0.01	Param.
Molybdenum (mg/L)	MW-25D	0.0015	0.000257	0.1	No	9	0.0009689	0.0003206	55.56	None	No	0.002	NP (NDs)
Selenium (mg/L)	GWB-4R	0.00385	0.002748	0.05	No	25	0.004016	0.001237	36	Kaplan-Meier	No	0.01	Param.
Selenium (mg/L)	GWB-5R	0.006	0.00485	0.05	No	25	0.00469	0.001208	72	Kaplan-Meier	No	0.01	NP (NDs)
Selenium (mg/L)	GWB-6R	0.01	0.00223	0.05	No	25	0.007928	0.009586	48	None	No	0.01	NP (normality)
Selenium (mg/L)	GWC-1	0.00252	0.0018	0.05	No	25	0.003223	0.004256	8	None	No	0.01	NP (normality)
Selenium (mg/L)	GWC-11	0.007908	0.003675	0.05	No	25	0.007503	0.005638	16	Kaplan-Meier	sqrt(x)	0.01	Param.
Selenium (mg/L)	GWC-12	0.005	0.003	0.05	No	25	0.004576	0.001008	84	None	No	0.01	NP (NDs)
Selenium (mg/L)	GWC-14	0.004285	0.003097	0.05	No	26	0.003691	0.001219	3.846	None	No	0.01	Param.
Selenium (mg/L)	GWC-15	0.0046	0.002297	0.05	No	25	0.004922	0.002726	44	Kaplan-Meier	sqrt(x)	0.01	Param.
Selenium (mg/L)	GWC-16	0.004873	0.003142	0.05	No	26	0.004008	0.001776	7.692	None	No	0.01	Param.
Selenium (mg/L)	GWC-17	0.005	0.0018	0.05	No	25	0.00384	0.001673	64	None	No	0.01	NP (NDs)
Selenium (mg/L)	GWC-2	0.005	0.0035	0.05	No	25	0.00482	0.0006595	92	None	No	0.01	NP (NDs)
Selenium (mg/L)	GWC-20	0.005	0.00209	0.05	No	25	0.003914	0.001594	64	None	No	0.01	NP (NDs)
Selenium (mg/L)	GWC-21	0.01776	0.009332	0.05	No	25	0.01355	0.00846	0	None	No	0.01	Param.

Confidence Intervals - All Results

Grumman Road Landfill Client: Southern Company Data: Grumman Road Landfill Printed 12/13/2024, 1:56 PM

Constituent	Well	Upper Lim.	Lower Lim.	Compliance	Sig.	N	Mean	Std. Dev.	%NDs	ND Adj.	Transform	Alpha	Method
Selenium (mg/L)	GWC-22	0.005	0.0023	0.05	No	25	0.004476	0.001245	84	None	No	0.01	NP (NDs)
Thallium (mg/L)	GWB-4R	0.002	0.00007	0.002	No	21	0.001816	0.0005805	90.48	None	No	0.01	NP (NDs)
Thallium (mg/L)	GWB-5R	0.002	0.00031	0.002	No	21	0.001827	0.0005479	90.48	None	No	0.01	NP (NDs)
Thallium (mg/L)	GWC-1	0.002	0.000054	0.002	No	21	0.001722	0.0006983	85.71	None	No	0.01	NP (NDs)
Thallium (mg/L)	GWC-11	0.002	0.00017	0.002	No	21	0.001291	0.0009265	61.9	None	No	0.01	NP (NDs)
Thallium (mg/L)	GWC-12	0.002	0.0002	0.002	No	21	0.001309	0.0009039	61.9	None	No	0.01	NP (NDs)
Thallium (mg/L)	GWC-14	0.002	0.00007	0.002	No	21	0.001816	0.000582	90.48	None	No	0.01	NP (NDs)
Thallium (mg/L)	GWC-16	0.002	0.00006	0.002	No	21	0.001815	0.000585	90.48	None	No	0.01	NP (NDs)
Thallium (mg/L)	GWC-17	0.002	0.0001	0.002	No	21	0.001452	0.0008875	71.43	None	No	0.01	NP (NDs)
Thallium (mg/L)	GWC-2	0.002	0.00011	0.002	No	22	0.001914	0.0004029	95.45	None	No	0.01	NP (NDs)
Thallium (mg/L)	GWC-21	0.002	0.00005	0.002	No	21	0.001907	0.0004255	95.24	None	No	0.01	NP (NDs)
Thallium (mg/L)	GWC-22	0.002	0.00017	0.002	No	21	0.001547	0.0008311	76.19	None	No	0.01	NP (NDs)
Vanadium (mg/L)	GWB-4R	0.02688	0.009494	0.24	No	20	0.01819	0.01531	5	None	No	0.01	Param.
Vanadium (mg/L)	GWB-5R	0.01324	0.005072	0.24	No	20	0.01227	0.01408	5	None	ln(x)	0.01	Param.
Vanadium (mg/L)	GWB-6R	0.02766	0.01016	0.24	No	20	0.02212	0.02217	0	None	x^(1/3)	0.01	Param.
Vanadium (mg/L)	GWC-1	0.006309	0.00346	0.24	No	20	0.008457	0.006428	20	Kaplan-Meier	ln(x)	0.01	Param.
Vanadium (mg/L)	GWC-11	0.00641	0.0023	0.24	No	20	0.004181	0.00286	15	None	No	0.01	NP (normality)
Vanadium (mg/L)	GWC-12	0.006646	0.004276	0.24	No	20	0.005461	0.002087	10	None	No	0.01	Param.
Vanadium (mg/L)	GWC-13	0.02	0.00439	0.24	No	20	0.01502	0.00785	65	None	No	0.01	NP (NDs)
Vanadium (mg/L)	GWC-14	0.01339	0.006421	0.24	No	23	0.0107	0.007344	13.04	None	sqrt(x)	0.01	Param.
Vanadium (mg/L)	GWC-15	0.003467	0.002202	0.24	No	22	0.00496	0.003341	27.27	Kaplan-Meier	ln(x)	0.01	Param.
Vanadium (mg/L)	GWC-16	0.00631	0.0028	0.24	No	23	0.01163	0.01804	17.39	None	No	0.01	NP (normality)
Vanadium (mg/L)	GWC-17	0.02	0.0029	0.24	No	20	0.01048	0.008197	40	None	No	0.01	NP (normality)
Vanadium (mg/L)	GWC-2	0.02	0.00777	0.24	No	20	0.01773	0.005605	85	None	No	0.01	NP (NDs)
Vanadium (mg/L)	GWC-20	0.00768	0.0028	0.24	No	22	0.005296	0.003004	22.73	None	No	0.01	NP (normality)
Vanadium (mg/L)	GWC-21	0.005106	0.002913	0.24	No	20	0.005452	0.003059	20	Kaplan-Meier	sqrt(x)	0.01	Param.
Vanadium (mg/L)	GWC-22	0.02	0.0025	0.24	No	20	0.01385	0.009951	55	Kaplan-Meier	No	0.01	NP (NDs)
Vanadium (mg/L)	GWC-9	0.02	0.0103	0.24	No	20	0.01691	0.006554	80	None	No	0.01	NP (NDs)
Vanadium (mg/L)	MW-24D	0.02	0.00414	0.24	No	8	0.01802	0.005607	87.5	None	No	0.004	NP (NDs)
Vanadium (mg/L)	MW-25D	0.02	0.0024	0.24	No	8	0.0178	0.006223	87.5	None	No	0.004	NP (NDs)
Zinc (mg/L)	GWB-4R	0.008467	0.004946	0.16	No	20	0.01164	0.006771	35	Kaplan-Meier	sqrt(x)	0.01	Param.
Zinc (mg/L)	GWB-5R	0.02	0.0081	0.16	No	20	0.0167	0.00687	80	Kaplan-Meier	No	0.01	NP (NDs)
Zinc (mg/L)	GWB-6R	0.01235	0.003432	0.16	No	20	0.01229	0.009946	45	Kaplan-Meier	sqrt(x)	0.01	Param.
Zinc (mg/L)	GWC-1	0.02	0.00917	0.16	No	20	0.01567	0.007002	70	Kaplan-Meier	No	0.01	NP (NDs)
Zinc (mg/L)	GWC-11	0.02	0.00479	0.16	No	20	0.01609	0.009328	65	Kaplan-Meier	No	0.01	NP (NDs)
Zinc (mg/L)	GWC-12	0.02	0.0026	0.16	No	20	0.009754	0.008611	30	None	No	0.01	NP (normality)
Zinc (mg/L)	GWC-13	0.02961	0.01118	0.16	No	20	0.0204	0.01623	0	None	No	0.01	Param.
Zinc (mg/L)	GWC-14	0.02	0.01	0.16	No	23	0.01737	0.006009	82.61	None	No	0.01	NP (NDs)
Zinc (mg/L)	GWC-15	0.032	0.0051	0.16	No	22	0.01914	0.005378	86.36	None	No	0.01	NP (NDs)
Zinc (mg/L)	GWC-16	0.02	0.0051	0.16	No	23	0.01473	0.007712	65.22	None	No	0.01	NP (NDs)
Zinc (mg/L)	GWC-17	0.01107	0.006708	0.16	No	20	0.008891	0.003845	10	None	No	0.01	Param.
Zinc (mg/L)	GWC-2	0.02	0.0067	0.16	No	20	0.01724	0.01175	65	None	No	0.01	NP (NDs)
Zinc (mg/L)	GWC-20	0.031	0.0171	0.16	No	22	0.01893	0.005379	81.82	None	No	0.01	NP (NDs)
Zinc (mg/L)	GWC-21	0.02	0.00814	0.16	No	20	0.0155	0.007307	70	None	No	0.01	NP (NDs)
Zinc (mg/L)	GWC-22	0.02	0.0057	0.16	No	20	0.01355	0.007216	50	None	No	0.01	NP (normality)
Zinc (mg/L)	GWC-9	0.02	0.003	0.16	No	20	0.01157	0.008427	35	None	No	0.01	NP (normality)
Zinc (mg/L)	MW-23D	0.02	0.0067	0.16	No	8	0.01617	0.005485	62.5	None	No	0.004	NP (NDs)
Zinc (mg/L)	MW-24D	0.02	0.0025	0.16	No	8	0.01659	0.006645	75	None	No	0.004	NP (NDs)
Zinc (mg/L)	MW-25D	0.02648	0.003687	0.16	No	8	0.01998	0.01388	50	Kaplan-Meier	sqrt(x)	0.01	Param.
Zinc (mg/L)	MW-26D	0.03994	0	0.16	No	5	0.01884	0.01395	40	Kaplan-Meier	No	0.01	Param.

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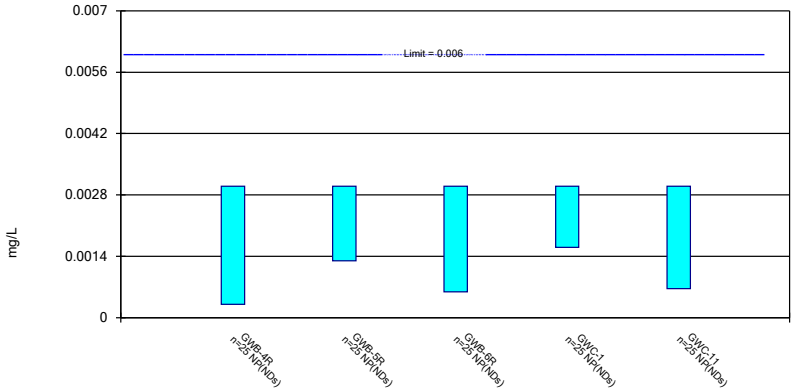
Non-Parametric Confidence Interval

Compliance Limit is not exceeded. Per-well alpha = 0.01.



Constituent: Antimony Analysis Run 12/13/2024 1:53 PM View: Appendix II & IV - Confidence Intervals
Grumman Road Landfill Client: Southern Company Data: Grumman Road Landfill

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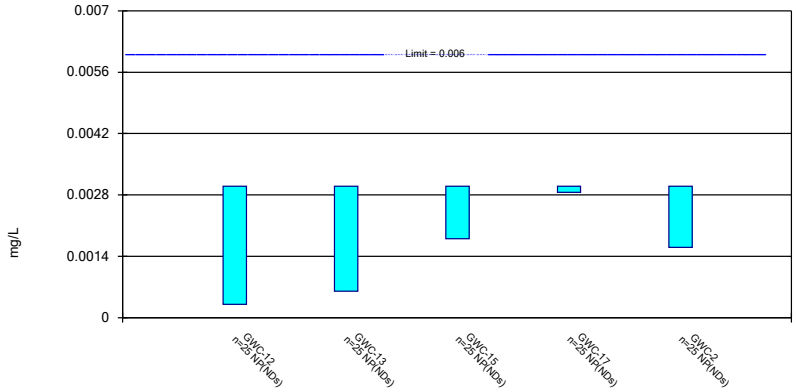
Non-Parametric Confidence Interval

Compliance Limit is not exceeded. Per-well alpha = 0.01.



Constituent: Antimony Analysis Run 12/13/2024 1:53 PM View: Appendix II & IV - Confidence Intervals
Grumman Road Landfill Client: Southern Company Data: Grumman Road Landfill

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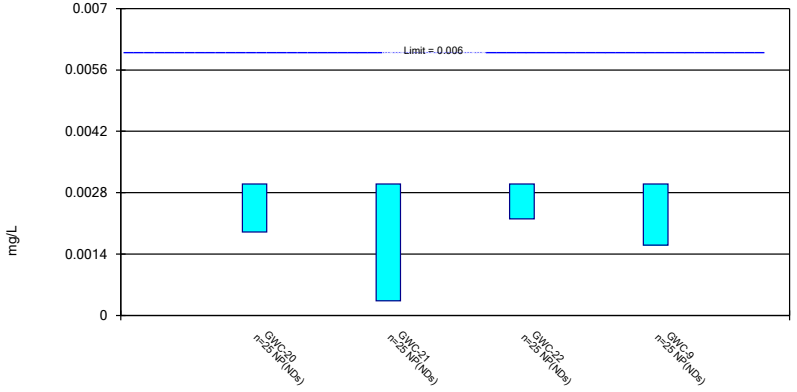
Non-Parametric Confidence Interval

Compliance Limit is not exceeded. Per-well alpha = 0.01.



Constituent: Antimony Analysis Run 12/13/2024 1:53 PM View: Appendix II & IV - Confidence Intervals
Grumman Road Landfill Client: Southern Company Data: Grumman Road Landfill

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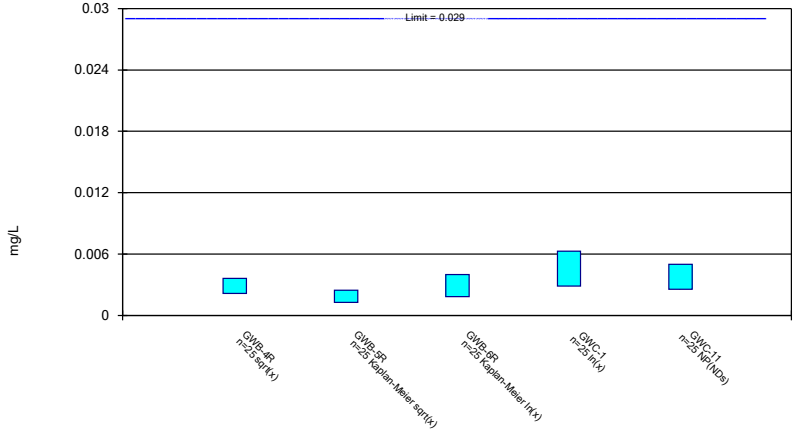
Parametric and Non-Parametric (NP) Confidence Interval

Compliance Limit is not exceeded. Per-well alpha = 0.01. Normality Test: Shapiro Wilk, alpha based on n.



Constituent: Arsenic Analysis Run 12/13/2024 1:53 PM View: Appendix II & IV - Confidence Intervals
Grumman Road Landfill Client: Southern Company Data: Grumman Road Landfill

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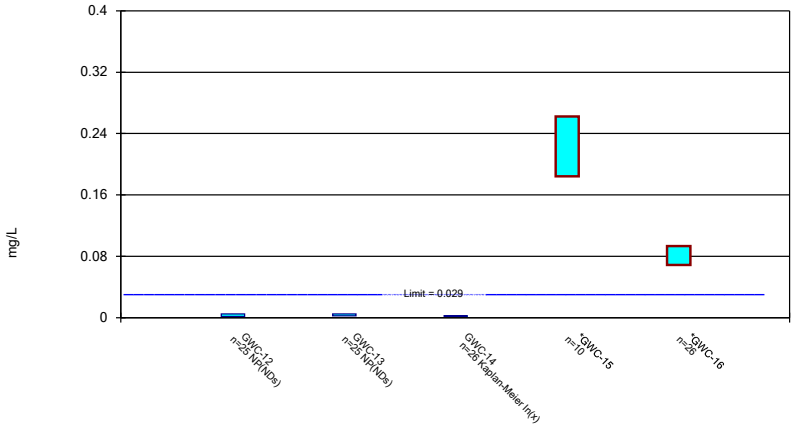
Parametric and Non-Parametric (NP) Confidence Interval

Compliance limit is exceeded.* Per-well alpha = 0.01. Normality Test: Shapiro Wilk, alpha based on n.



Constituent: Arsenic Analysis Run 12/13/2024 1:53 PM View: Appendix II & IV - Confidence Intervals
Grumman Road Landfill Client: Southern Company Data: Grumman Road Landfill

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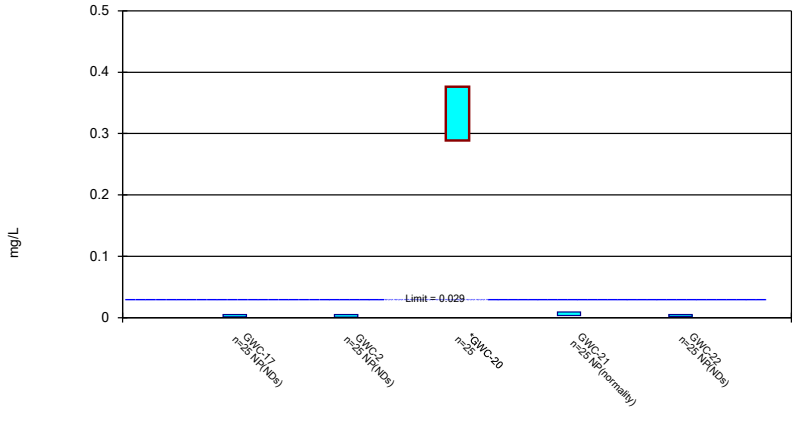
Parametric and Non-Parametric (NP) Confidence Interval

Compliance limit is exceeded.* Per-well alpha = 0.01. Normality Test: Shapiro Wilk, alpha based on n.

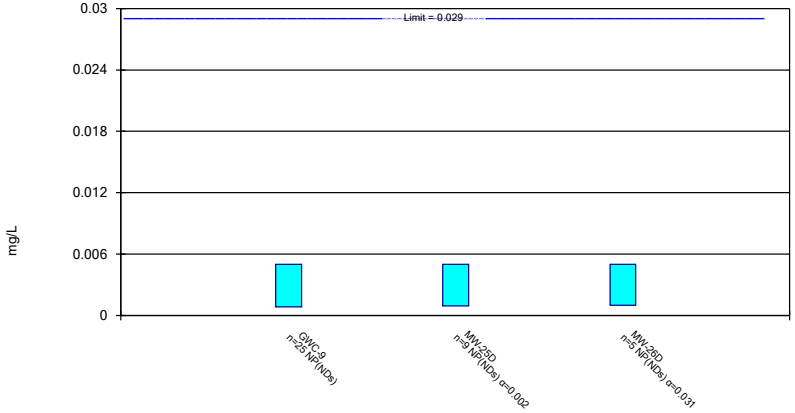


Constituent: Arsenic Analysis Run 12/13/2024 1:53 PM View: Appendix II & IV - Confidence Intervals
Grumman Road Landfill Client: Southern Company Data: Grumman Road Landfill

Sanitas™ v.10.0.23a Software licensed to Groundwater Stats Consulting. UG

Non-Parametric Confidence Interval

Compliance Limit is not exceeded. Per-well alpha = 0.01 except as noted.



Constituent: Arsenic Analysis Run 12/13/2024 1:53 PM View: Appendix II & IV - Confidence Intervals
Grumman Road Landfill Client: Southern Company Data: Grumman Road Landfill

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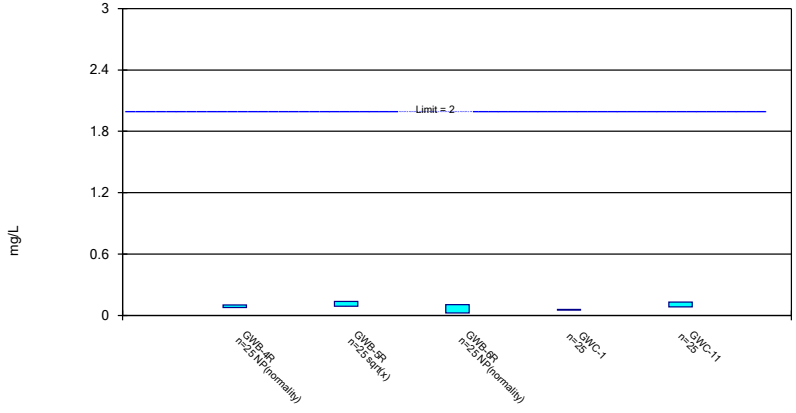
Parametric and Non-Parametric (NP) Confidence Interval

Compliance Limit is not exceeded. Per-well alpha = 0.01. Normality Test: Shapiro Wilk, alpha based on n.



Constituent: Barium Analysis Run 12/13/2024 1:53 PM View: Appendix II & IV - Confidence Intervals
Grumman Road Landfill Client: Southern Company Data: Grumman Road Landfill

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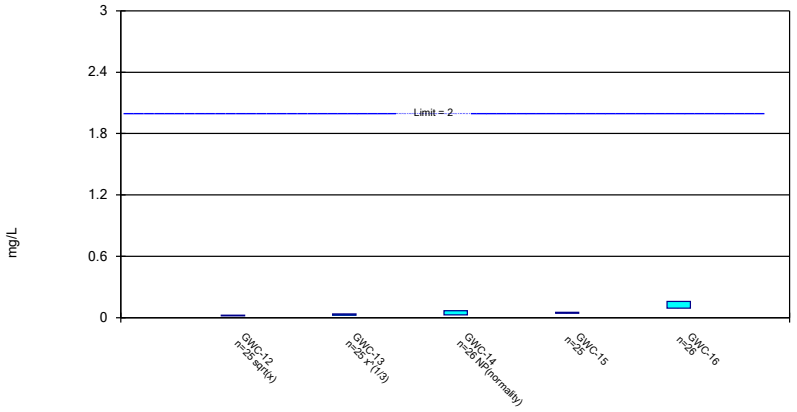
Parametric and Non-Parametric (NP) Confidence Interval

Compliance Limit is not exceeded. Per-well alpha = 0.01. Normality Test: Shapiro Wilk, alpha based on n.



Constituent: Barium Analysis Run 12/13/2024 1:53 PM View: Appendix II & IV - Confidence Intervals
Grumman Road Landfill Client: Southern Company Data: Grumman Road Landfill

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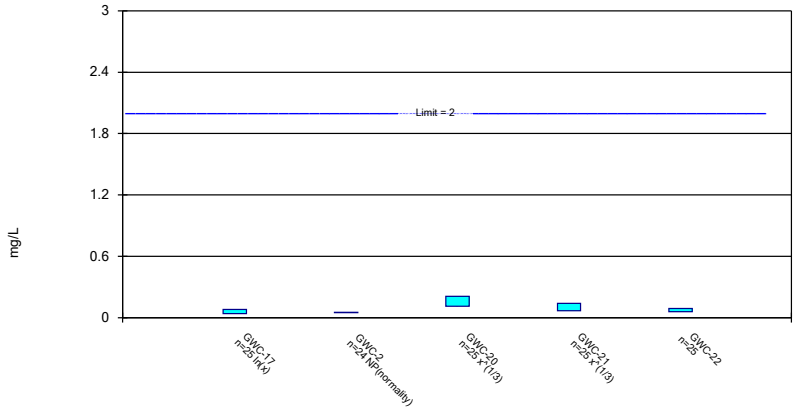
Parametric and Non-Parametric (NP) Confidence Interval

Compliance Limit is not exceeded. Per-well alpha = 0.01. Normality Test: Shapiro Wilk, alpha based on n.



Constituent: Barium Analysis Run 12/13/2024 1:53 PM View: Appendix II & IV - Confidence Intervals
Grumman Road Landfill Client: Southern Company Data: Grumman Road Landfill

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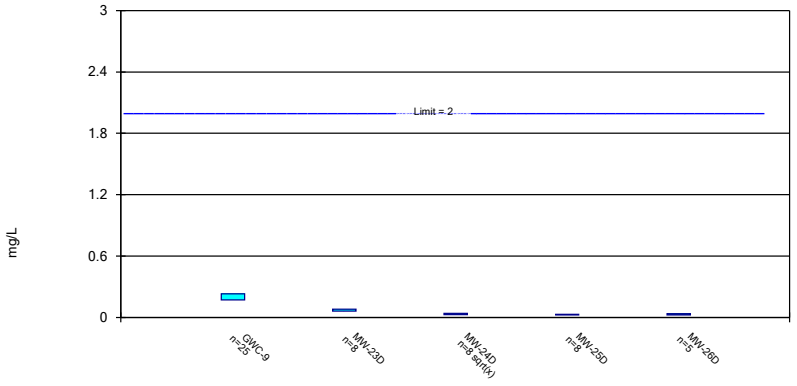
Parametric Confidence Interval

Compliance Limit is not exceeded. Per-well alpha = 0.01. Normality Test: Shapiro Wilk, alpha based on n.



Constituent: Barium Analysis Run 12/13/2024 1:53 PM View: Appendix II & IV - Confidence Intervals
Grumman Road Landfill Client: Southern Company Data: Grumman Road Landfill

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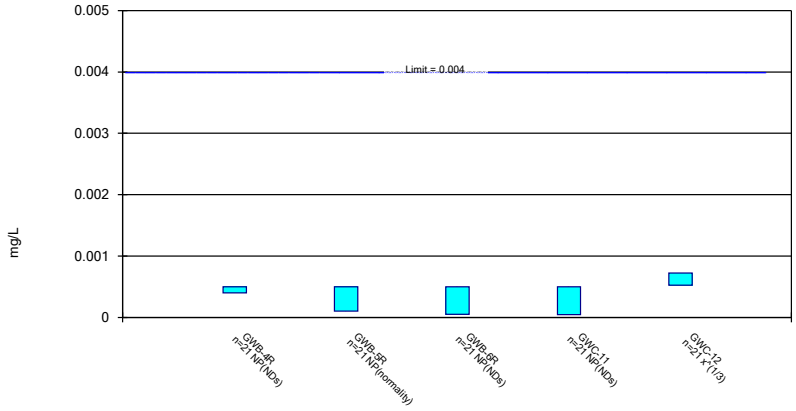
Parametric and Non-Parametric (NP) Confidence Interval

Compliance Limit is not exceeded. Per-well alpha = 0.01. Normality Test: Shapiro Wilk, alpha based on n.



Constituent: Beryllium Analysis Run 12/13/2024 1:53 PM View: Appendix II & IV - Confidence Intervals
Grumman Road Landfill Client: Southern Company Data: Grumman Road Landfill

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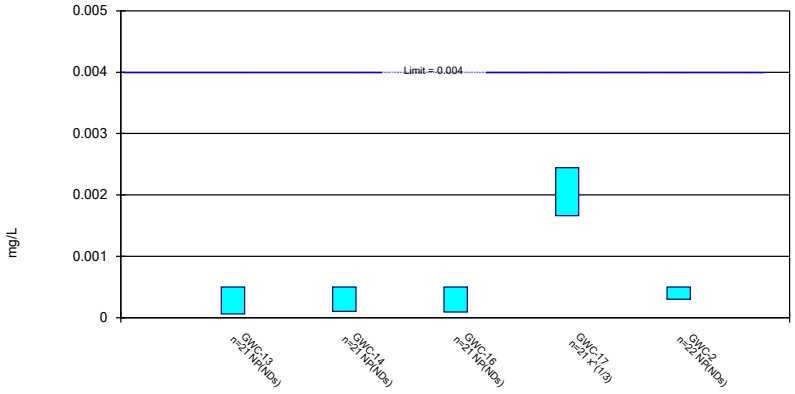
Parametric and Non-Parametric (NP) Confidence Interval

Compliance Limit is not exceeded. Per-well alpha = 0.01. Normality Test: Shapiro Wilk, alpha based on n.



Constituent: Beryllium Analysis Run 12/13/2024 1:53 PM View: Appendix II & IV - Confidence Intervals
Grumman Road Landfill Client: Southern Company Data: Grumman Road Landfill

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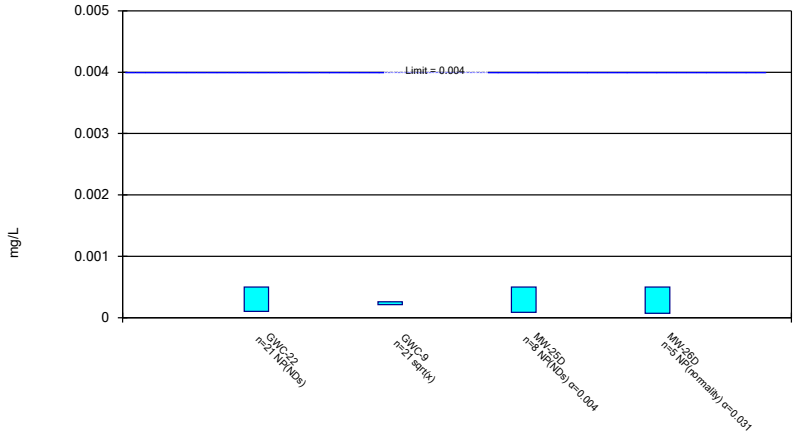
Parametric and Non-Parametric (NP) Confidence Interval

Compliance Limit is not exceeded. Per-well alpha = 0.01 except as noted. Normality Test: Shapiro Wilk, alpha based on n.



Constituent: Beryllium Analysis Run 12/13/2024 1:53 PM View: Appendix II & IV - Confidence Intervals
Grumman Road Landfill Client: Southern Company Data: Grumman Road Landfill

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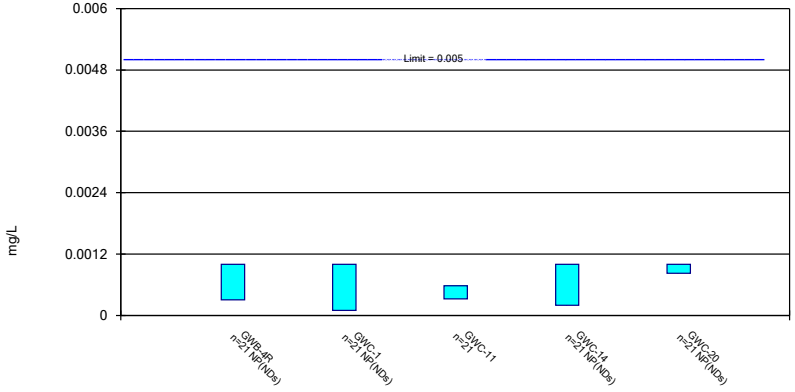
Parametric and Non-Parametric (NP) Confidence Interval

Compliance Limit is not exceeded. Per-well alpha = 0.01. Normality Test: Shapiro Wilk, alpha based on n.



Constituent: Cadmium Analysis Run 12/13/2024 1:53 PM View: Appendix II & IV - Confidence Intervals
Grumman Road Landfill Client: Southern Company Data: Grumman Road Landfill

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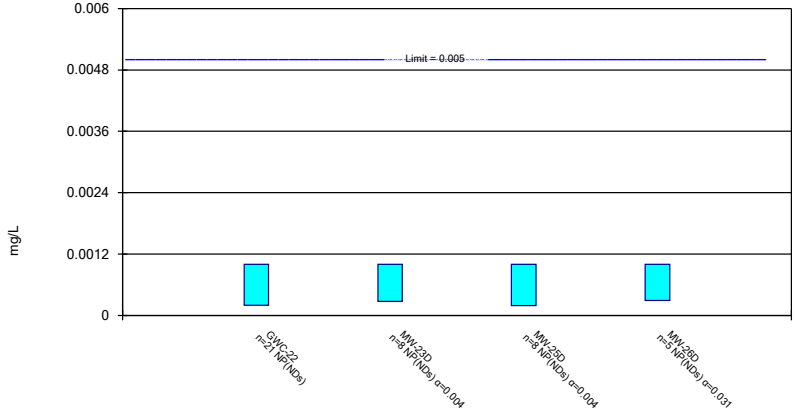
Non-Parametric Confidence Interval

Compliance Limit is not exceeded. Per-well alpha = 0.01 except as noted.



Constituent: Cadmium Analysis Run 12/13/2024 1:53 PM View: Appendix II & IV - Confidence Intervals
Grumman Road Landfill Client: Southern Company Data: Grumman Road Landfill

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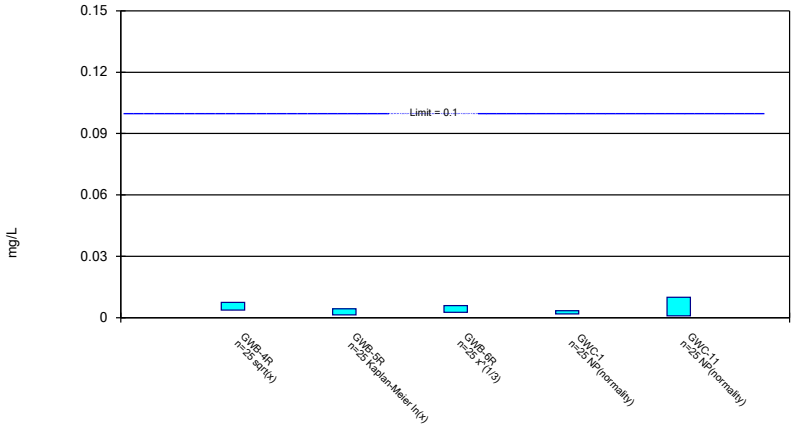
Parametric and Non-Parametric (NP) Confidence Interval

Compliance Limit is not exceeded. Per-well alpha = 0.01. Normality Test: Shapiro Wilk, alpha based on n.



Constituent: Chromium Analysis Run 12/13/2024 1:53 PM View: Appendix II & IV - Confidence Intervals
Grumman Road Landfill Client: Southern Company Data: Grumman Road Landfill

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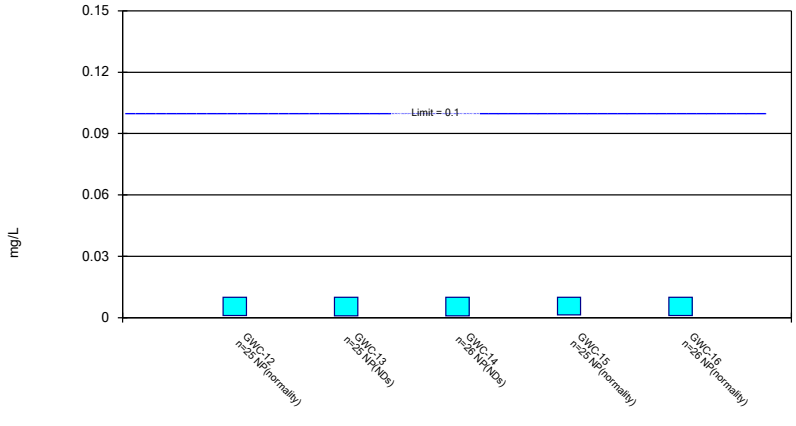
Non-Parametric Confidence Interval

Compliance Limit is not exceeded. Per-well alpha = 0.01.

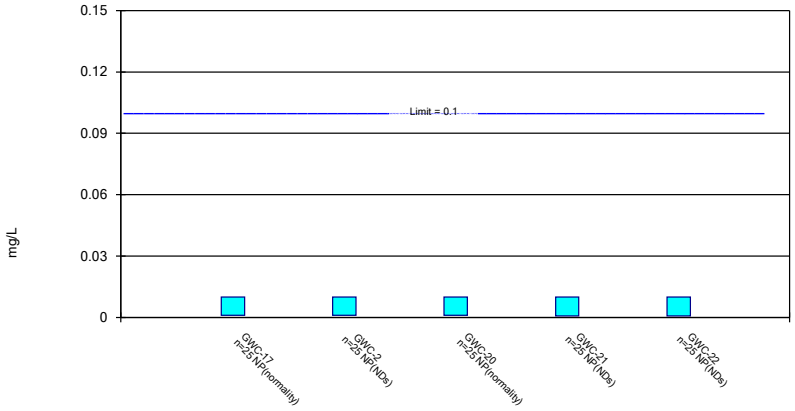


Constituent: Chromium Analysis Run 12/13/2024 1:53 PM View: Appendix II & IV - Confidence Intervals
Grumman Road Landfill Client: Southern Company Data: Grumman Road Landfill

Sanitas™ v.10.0.23a Software licensed to Groundwater Stats Consulting. UG

Non-Parametric Confidence Interval

Compliance Limit is not exceeded. Per-well alpha = 0.01.

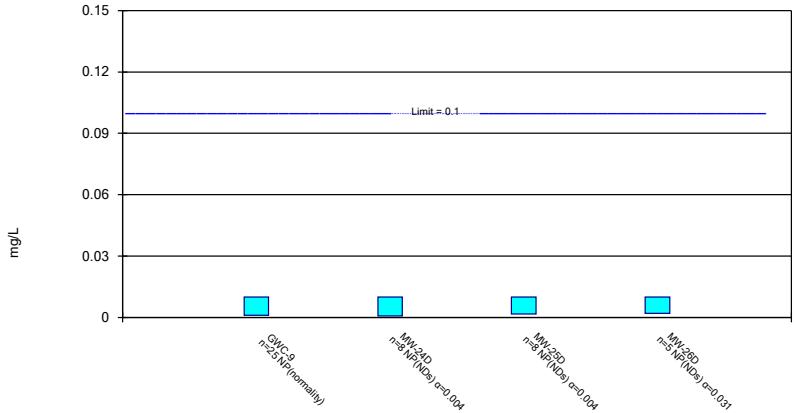


Constituent: Chromium Analysis Run 12/13/2024 1:53 PM View: Appendix II & IV - Confidence Intervals
Grumman Road Landfill Client: Southern Company Data: Grumman Road Landfill

Sanitas™ v.10.0.23a Software licensed to Groundwater Stats Consulting. UG

Non-Parametric Confidence Interval

Compliance Limit is not exceeded. Per-well alpha = 0.01 except as noted.



Constituent: Chromium Analysis Run 12/13/2024 1:53 PM View: Appendix II & IV - Confidence Intervals
Grumman Road Landfill Client: Southern Company Data: Grumman Road Landfill

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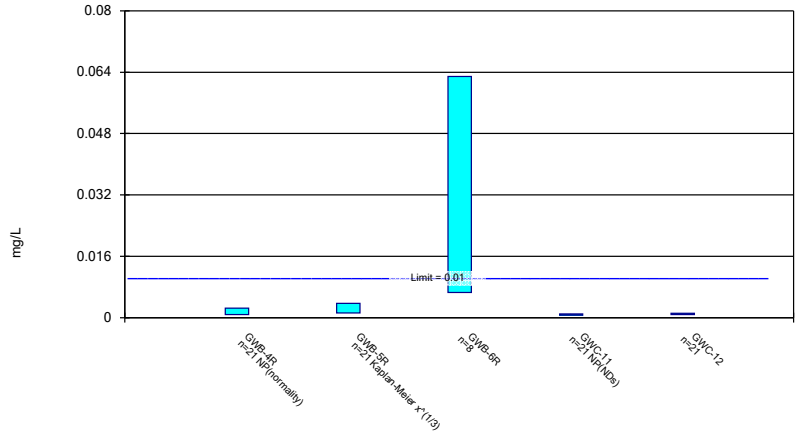
Parametric and Non-Parametric (NP) Confidence Interval

Compliance Limit is not exceeded. Per-well alpha = 0.01. Normality Test: Shapiro Wilk, alpha based on n.



Constituent: Cobalt Analysis Run 12/13/2024 1:53 PM View: Appendix II & IV - Confidence Intervals
Grumman Road Landfill Client: Southern Company Data: Grumman Road Landfill

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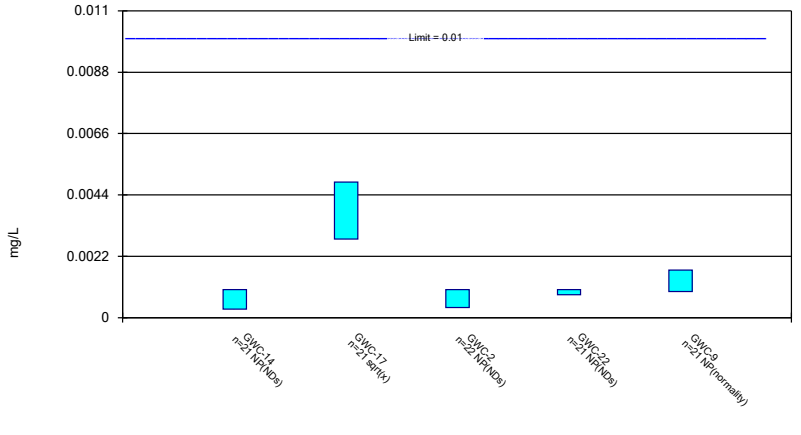
Parametric and Non-Parametric (NP) Confidence Interval

Compliance Limit is not exceeded. Per-well alpha = 0.01. Normality Test: Shapiro Wilk, alpha based on n.



Constituent: Cobalt Analysis Run 12/13/2024 1:53 PM View: Appendix II & IV - Confidence Intervals
Grumman Road Landfill Client: Southern Company Data: Grumman Road Landfill

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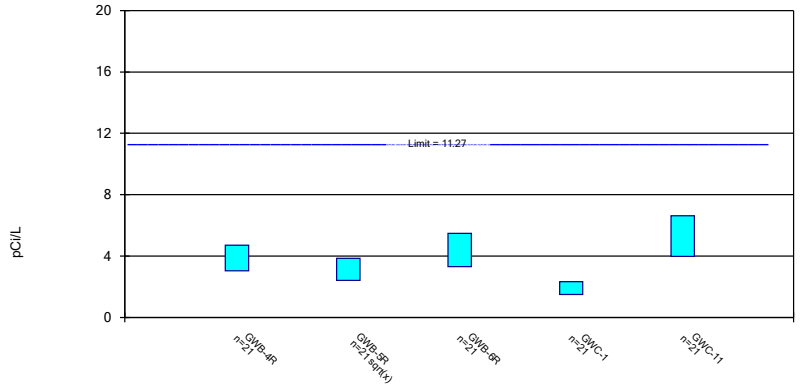
Parametric Confidence Interval

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 12/13/2024 1:53 PM View: Appendix II & IV - Con
Grumman Road Landfill Client: Southern Company Data: Grumman Road Landfill

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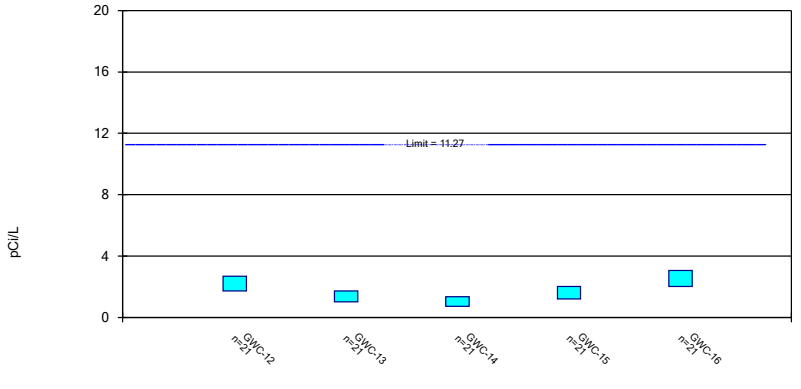
Parametric Confidence Interval

Compliance Limit is not exceeded. Per-well alpha = 0.01. Normality Test: Shapiro Wilk, alpha based on n.

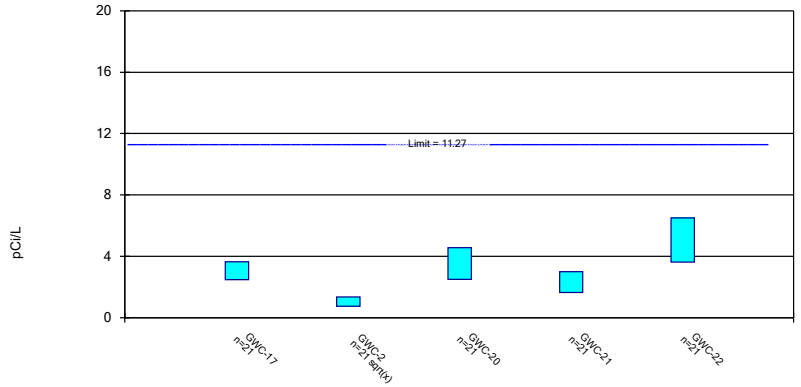


Constituent: Combined Radium 226 + 228 Analysis Run 12/13/2024 1:53 PM View: Appendix II & IV - Con
Grumman Road Landfill Client: Southern Company Data: Grumman Road Landfill

Sanitas™ v.10.0.23a Software licensed to Groundwater Stats Consulting. UG

Parametric Confidence Interval

Compliance Limit is not exceeded. Per-well alpha = 0.01. Normality Test: Shapiro Wilk, alpha based on n.



Constituent: Combined Radium 226 + 228 Analysis Run 12/13/2024 1:53 PM View: Appendix II & IV - Con
Grumman Road Landfill Client: Southern Company Data: Grumman Road Landfill

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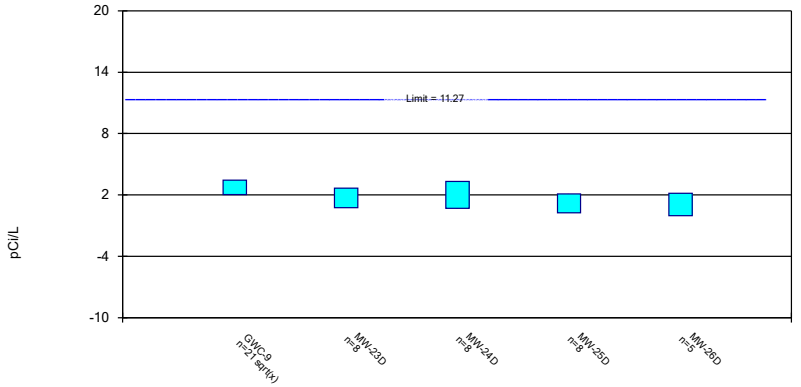
Parametric Confidence Interval

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 12/13/2024 1:53 PM View: Appendix II & IV - Con
Grumman Road Landfill Client: Southern Company Data: Grumman Road Landfill

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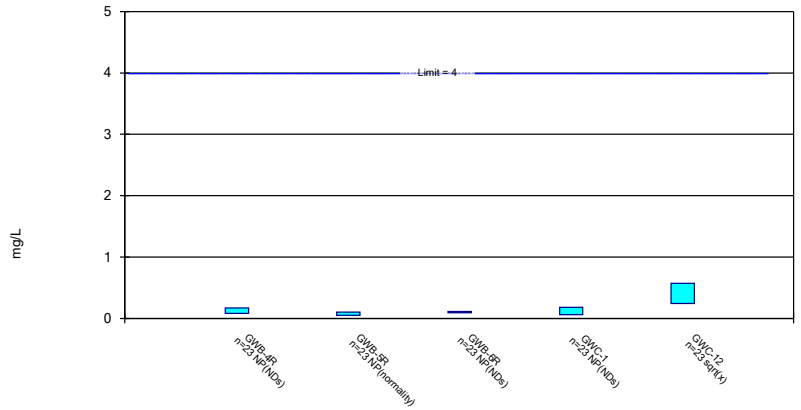
Parametric and Non-Parametric (NP) Confidence Interval

Compliance Limit is not exceeded. Per-well alpha = 0.01. Normality Test: Shapiro Wilk, alpha based on n.



Constituent: Fluoride Analysis Run 12/13/2024 1:53 PM View: Appendix II & IV - Confidence Intervals
Grumman Road Landfill Client: Southern Company Data: Grumman Road Landfill

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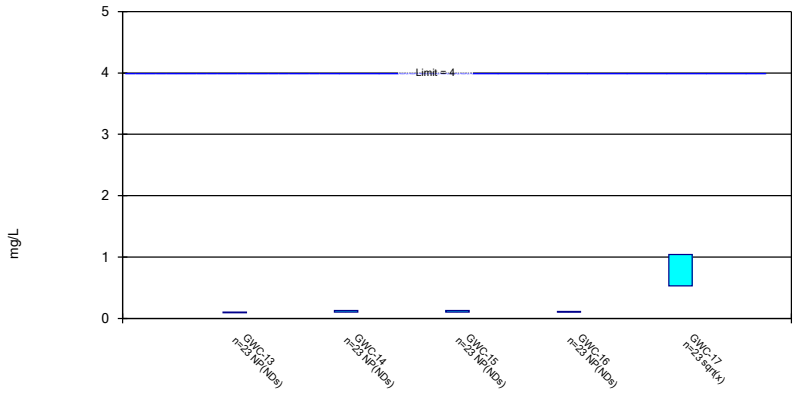
Parametric and Non-Parametric (NP) Confidence Interval

Compliance Limit is not exceeded. Per-well alpha = 0.01. Normality Test: Shapiro Wilk, alpha based on n.

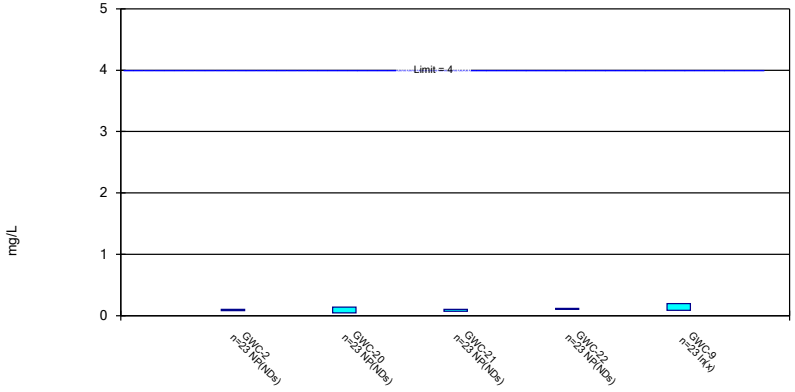


Constituent: Fluoride Analysis Run 12/13/2024 1:53 PM View: Appendix II & IV - Confidence Intervals
Grumman Road Landfill Client: Southern Company Data: Grumman Road Landfill

Sanitas™ v.10.0.23a Software licensed to Groundwater Stats Consulting. UG

Parametric and Non-Parametric (NP) Confidence Interval

Compliance Limit is not exceeded. Per-well alpha = 0.01. Normality Test: Shapiro Wilk, alpha based on n.

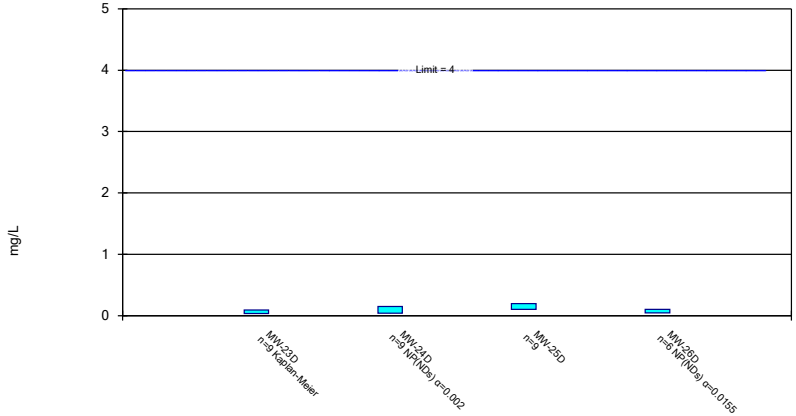


Constituent: Fluoride Analysis Run 12/13/2024 1:53 PM View: Appendix II & IV - Confidence Intervals
Grumman Road Landfill Client: Southern Company Data: Grumman Road Landfill

Sanitas™ v.10.0.23a Software licensed to Groundwater Stats Consulting. UG

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.

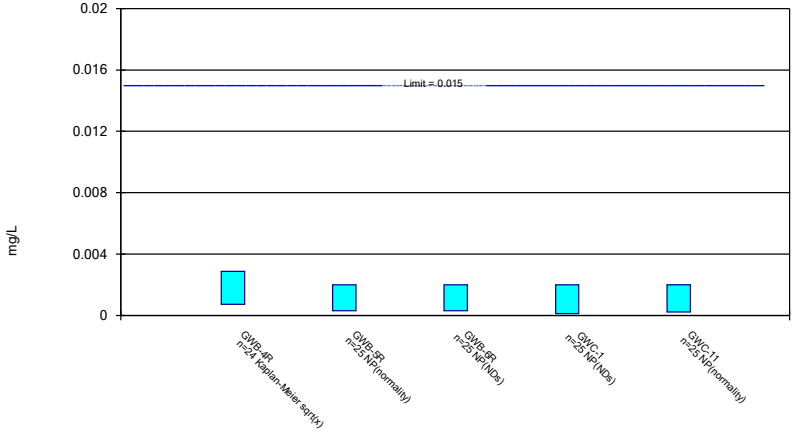


Constituent: Fluoride Analysis Run 12/13/2024 1:53 PM View: Appendix II & IV - Confidence Intervals
Grumman Road Landfill Client: Southern Company Data: Grumman Road Landfill

Sanitas™ v.10.0.23a Software licensed to Groundwater Stats Consulting. UG

Parametric and Non-Parametric (NP) Confidence Interval

Compliance Limit is not exceeded. Per-well alpha = 0.01. Normality Test: Shapiro Wilk, alpha based on n.

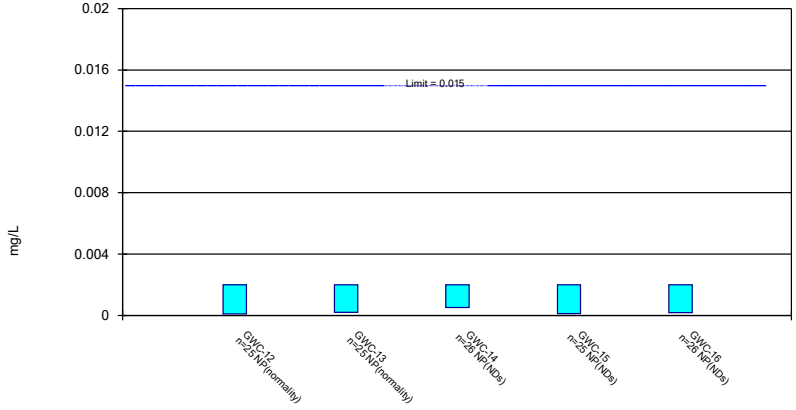


Constituent: Lead Analysis Run 12/13/2024 1:53 PM View: Appendix II & IV - Confidence Intervals
Grumman Road Landfill Client: Southern Company Data: Grumman Road Landfill

Sanitas™ v.10.0.23a Software licensed to Groundwater Stats Consulting. UG

Non-Parametric Confidence Interval

Compliance Limit is not exceeded. Per-well alpha = 0.01.

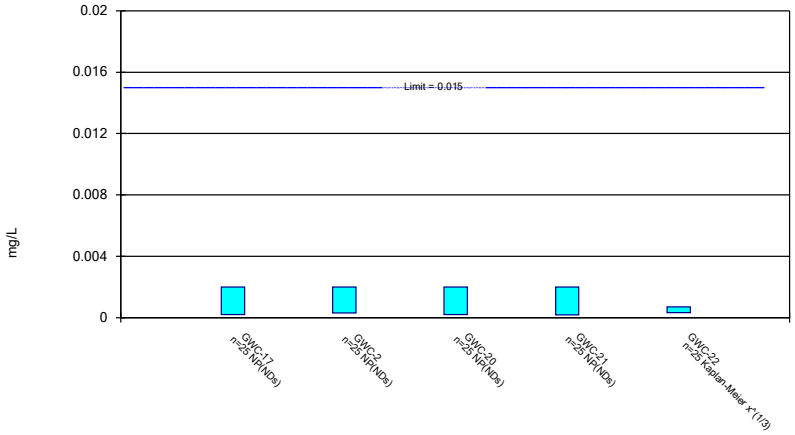


Constituent: Lead Analysis Run 12/13/2024 1:53 PM View: Appendix II & IV - Confidence Intervals
Grumman Road Landfill Client: Southern Company Data: Grumman Road Landfill

Sanitas™ v.10.0.23a Software licensed to Groundwater Stats Consulting. UG

Parametric and Non-Parametric (NP) Confidence Interval

Compliance Limit is not exceeded. Per-well alpha = 0.01. Normality Test: Shapiro Wilk, alpha based on n.

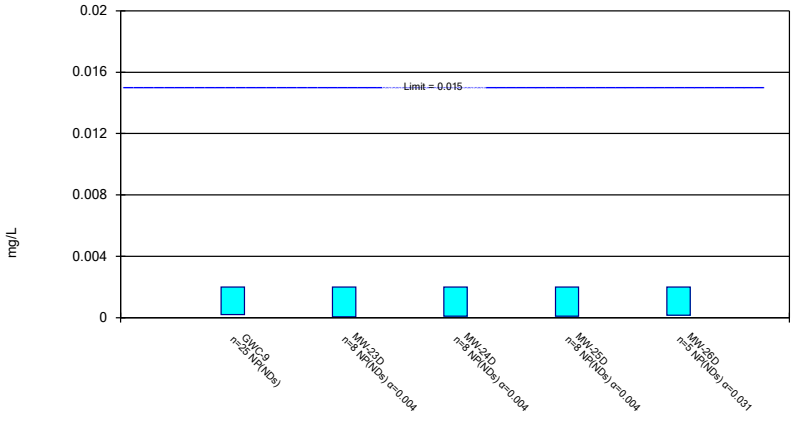


Constituent: Lead Analysis Run 12/13/2024 1:54 PM View: Appendix II & IV - Confidence Intervals
Grumman Road Landfill Client: Southern Company Data: Grumman Road Landfill

Sanitas™ v.10.0.23a Software licensed to Groundwater Stats Consulting. UG

Non-Parametric Confidence Interval

Compliance Limit is not exceeded. Per-well alpha = 0.01 except as noted.

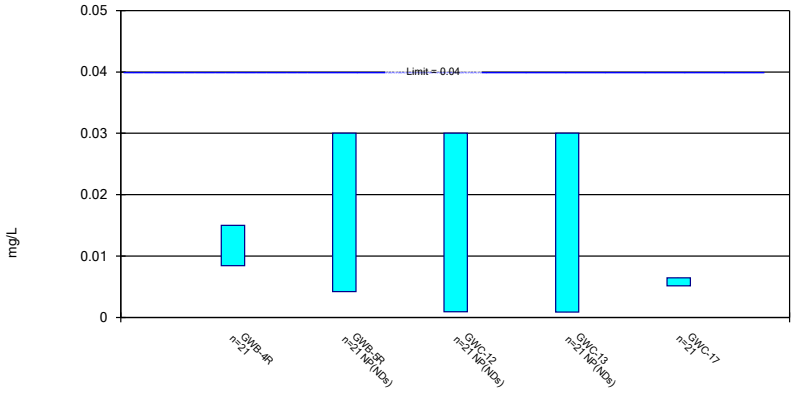


Constituent: Lead Analysis Run 12/13/2024 1:54 PM View: Appendix II & IV - Confidence Intervals
Grumman Road Landfill Client: Southern Company Data: Grumman Road Landfill

Sanitas™ v.10.0.23a Software licensed to Groundwater Stats Consulting. UG

Parametric and Non-Parametric (NP) Confidence Interval

Compliance Limit is not exceeded. Per-well alpha = 0.01. Normality Test: Shapiro Wilk, alpha based on n.

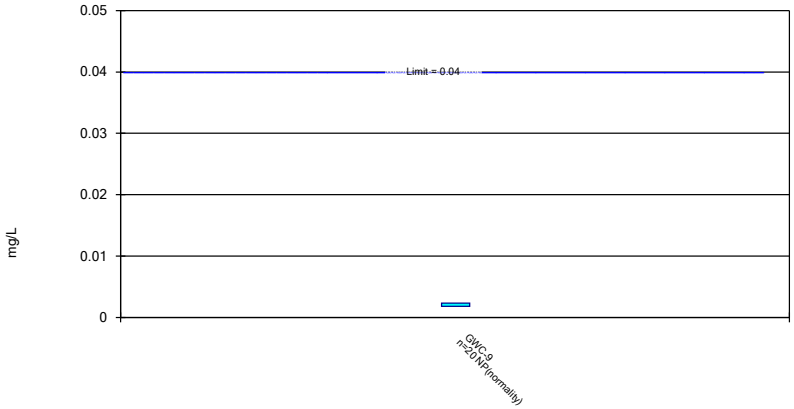


Constituent: Lithium Analysis Run 12/13/2024 1:54 PM View: Appendix II & IV - Confidence Intervals
Grumman Road Landfill Client: Southern Company Data: Grumman Road Landfill

Sanitas™ v.10.0.23a Software licensed to Groundwater Stats Consulting. UG

Non-Parametric Confidence Interval

Compliance Limit is not exceeded. Per-well alpha = 0.01.



Constituent: Lithium Analysis Run 12/13/2024 1:54 PM View: Appendix II & IV - Confidence Intervals
Grumman Road Landfill Client: Southern Company Data: Grumman Road Landfill

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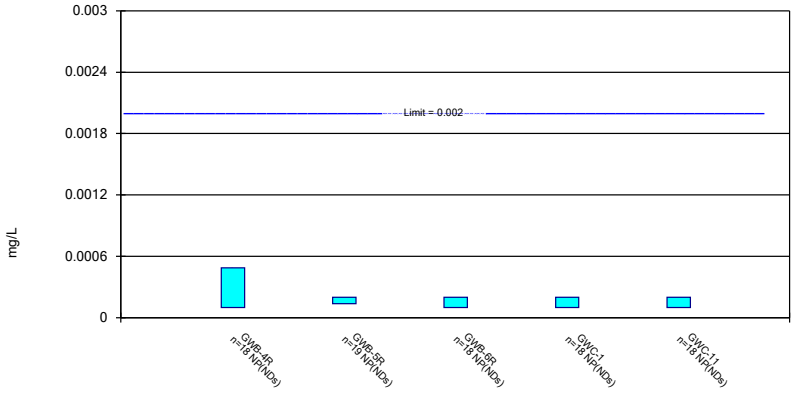
Non-Parametric Confidence Interval

Compliance Limit is not exceeded. Per-well alpha = 0.01.



Constituent: Mercury Analysis Run 12/13/2024 1:54 PM View: Appendix II & IV - Confidence Intervals
Grumman Road Landfill Client: Southern Company Data: Grumman Road Landfill

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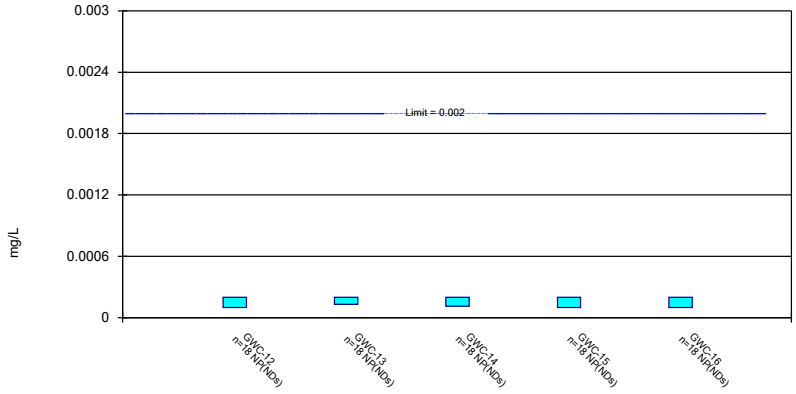
Non-Parametric Confidence Interval

Compliance Limit is not exceeded. Per-well alpha = 0.01.

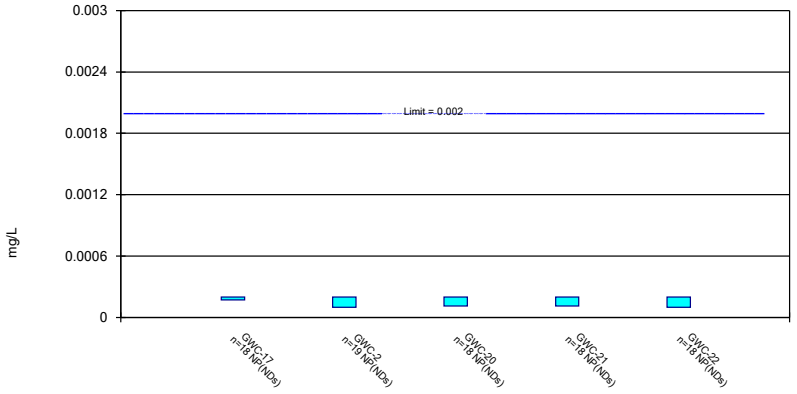


Constituent: Mercury Analysis Run 12/13/2024 1:54 PM View: Appendix II & IV - Confidence Intervals
Grumman Road Landfill Client: Southern Company Data: Grumman Road Landfill

Sanitas™ v.10.0.23a Software licensed to Groundwater Stats Consulting. UG

Non-Parametric Confidence Interval

Compliance Limit is not exceeded. Per-well alpha = 0.01.

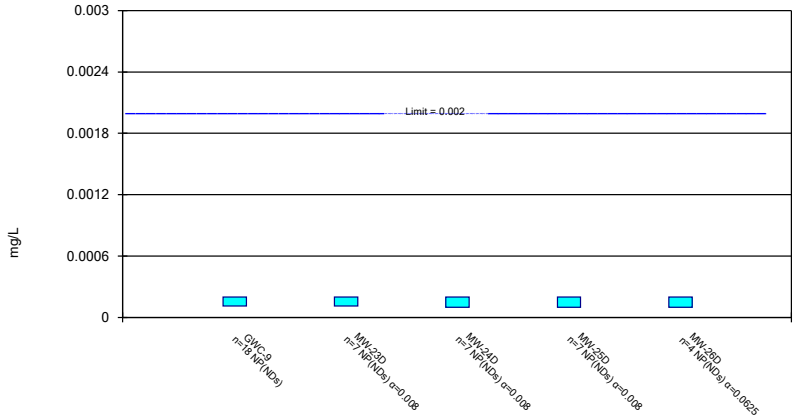


Constituent: Mercury Analysis Run 12/13/2024 1:54 PM View: Appendix II & IV - Confidence Intervals
Grumman Road Landfill Client: Southern Company Data: Grumman Road Landfill

Sanitas™ v.10.0.23a Software licensed to Groundwater Stats Consulting. UG

Non-Parametric Confidence Interval

Compliance Limit is not exceeded. Per-well alpha = 0.01 except as noted.

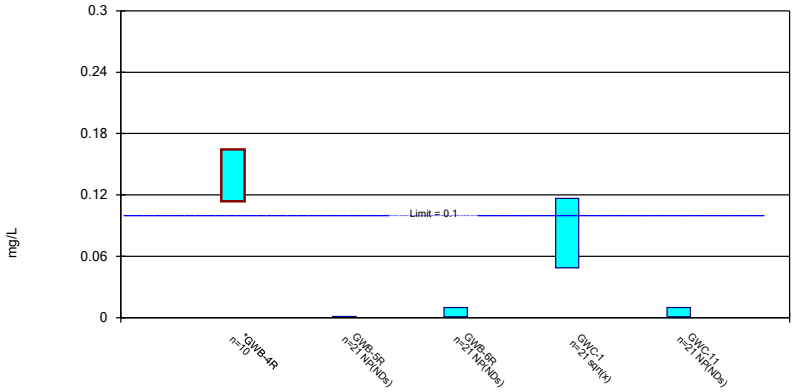


Constituent: Mercury Analysis Run 12/13/2024 1:54 PM View: Appendix II & IV - Confidence Intervals
Grumman Road Landfill Client: Southern Company Data: Grumman Road Landfill

Sanitas™ v.10.0.23a Software licensed to Groundwater Stats Consulting. UG

Parametric and Non-Parametric (NP) Confidence Interval

Compliance limit is exceeded.* Per-well alpha = 0.01. Normality Test: Shapiro Wilk, alpha based on n.

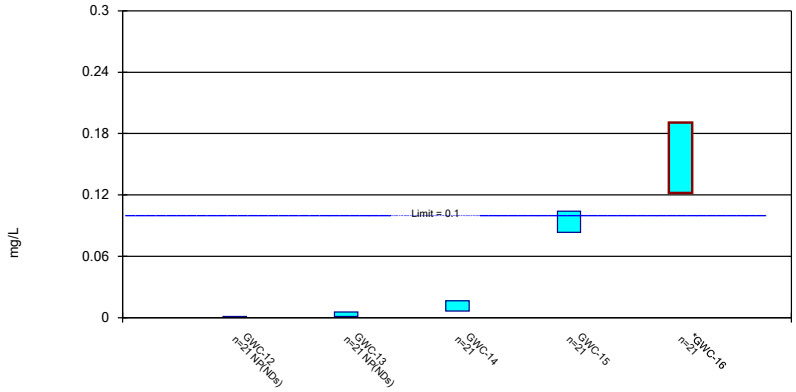


Constituent: Molybdenum Analysis Run 12/13/2024 1:54 PM View: Appendix II & IV - Confidence Intervals
Grumman Road Landfill Client: Southern Company Data: Grumman Road Landfill

Sanitas™ v.10.0.23a Software licensed to Groundwater Stats Consulting. UG

Parametric and Non-Parametric (NP) Confidence Interval

Compliance limit is exceeded.* Per-well alpha = 0.01. Normality Test: Shapiro Wilk, alpha based on n.

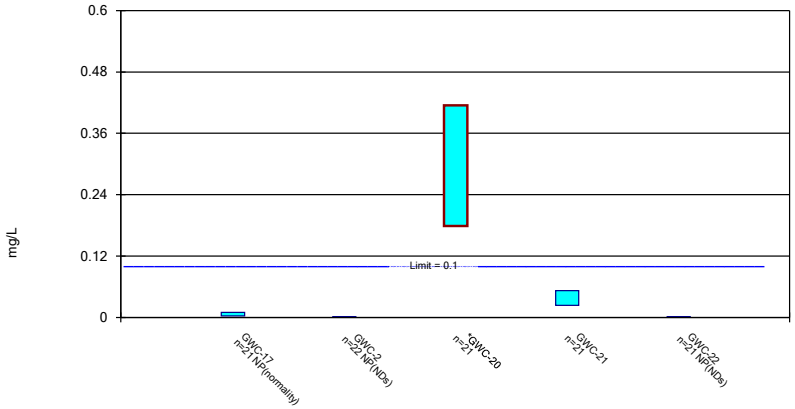


Constituent: Molybdenum Analysis Run 12/13/2024 1:54 PM View: Appendix II & IV - Confidence Intervals
Grumman Road Landfill Client: Southern Company Data: Grumman Road Landfill

Sanitas™ v.10.0.23a Software licensed to Groundwater Stats Consulting. UG

Parametric and Non-Parametric (NP) Confidence Interval

Compliance limit is exceeded.* Per-well alpha = 0.01. Normality Test: Shapiro Wilk, alpha based on n.

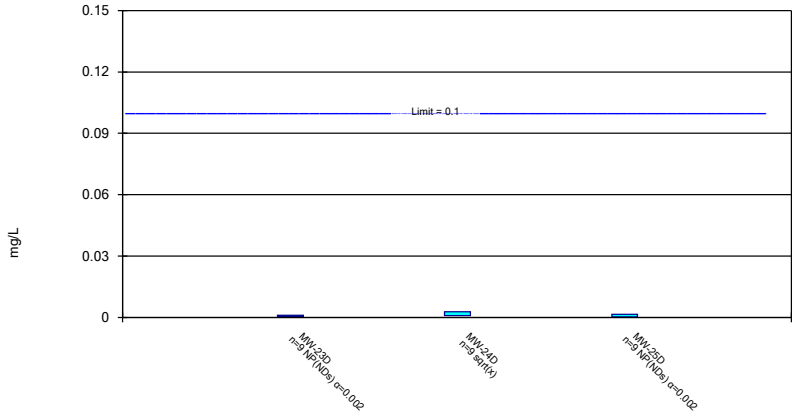


Constituent: Molybdenum Analysis Run 12/13/2024 1:54 PM View: Appendix II & IV - Confidence Intervals
Grumman Road Landfill Client: Southern Company Data: Grumman Road Landfill

Sanitas™ v.10.0.23a Software licensed to Groundwater Stats Consulting. UG

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.

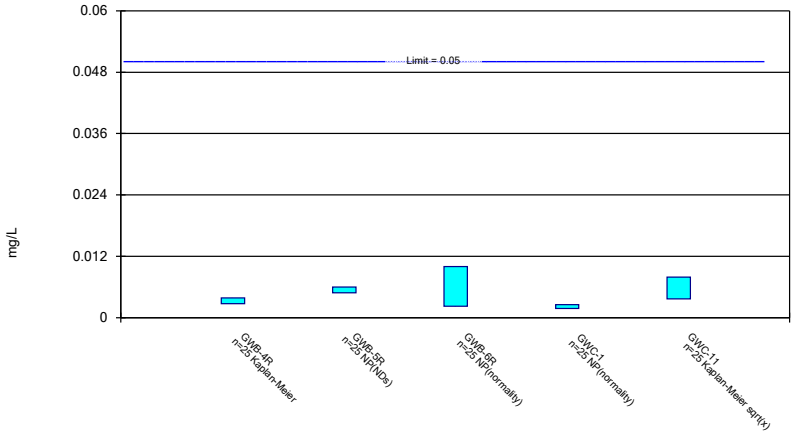


Constituent: Molybdenum Analysis Run 12/13/2024 1:54 PM View: Appendix II & IV - Confidence Intervals
Grumman Road Landfill Client: Southern Company Data: Grumman Road Landfill

Sanitas™ v.10.0.23a Software licensed to Groundwater Stats Consulting. UG

Parametric and Non-Parametric (NP) Confidence Interval

Compliance Limit is not exceeded. Per-well alpha = 0.01. Normality Test: Shapiro Wilk, alpha based on n.



Constituent: Selenium Analysis Run 12/13/2024 1:54 PM View: Appendix II & IV - Confidence Intervals
Grumman Road Landfill Client: Southern Company Data: Grumman Road Landfill

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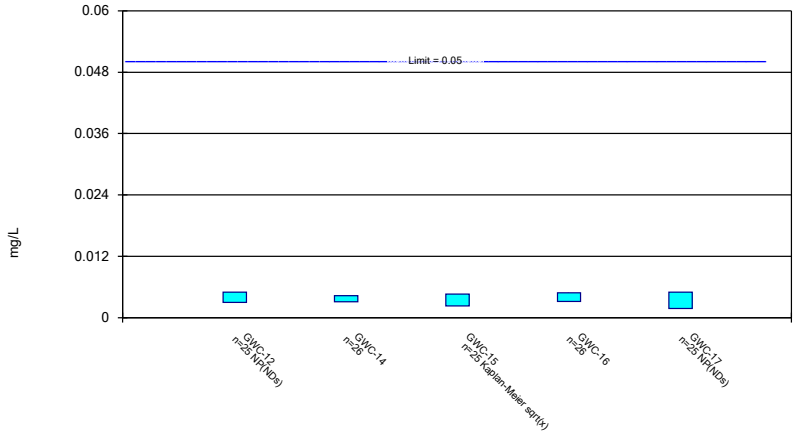
Parametric and Non-Parametric (NP) Confidence Interval

Compliance Limit is not exceeded. Per-well alpha = 0.01. Normality Test: Shapiro Wilk, alpha based on n.

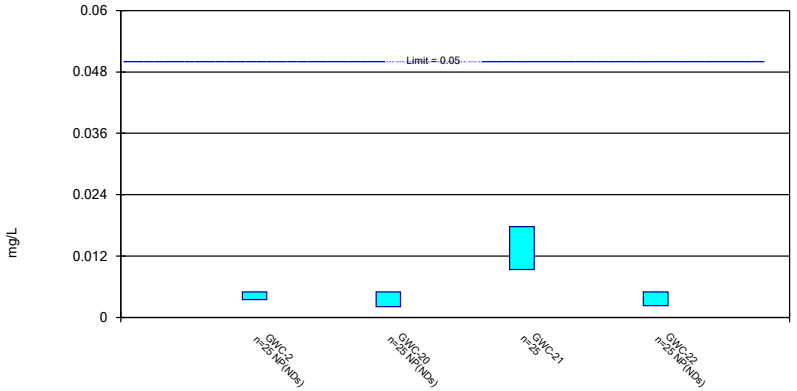


Constituent: Selenium Analysis Run 12/13/2024 1:54 PM View: Appendix II & IV - Confidence Intervals
Grumman Road Landfill Client: Southern Company Data: Grumman Road Landfill

Sanitas™ v.10.0.23a Software licensed to Groundwater Stats Consulting. UG

Parametric and Non-Parametric (NP) Confidence Interval

Compliance Limit is not exceeded. Per-well alpha = 0.01. Normality Test: Shapiro Wilk, alpha based on n.

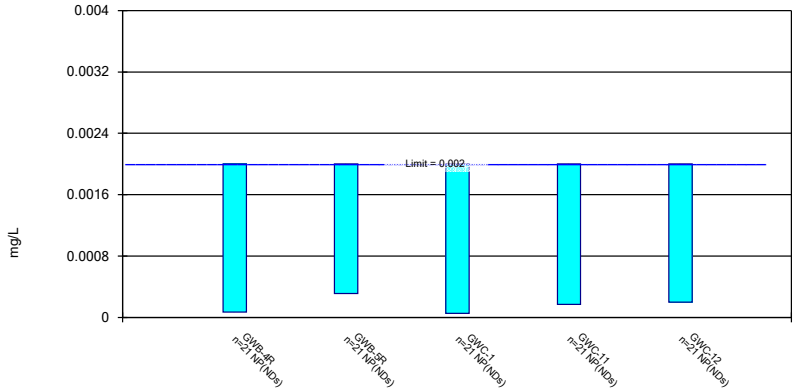


Constituent: Selenium Analysis Run 12/13/2024 1:54 PM View: Appendix II & IV - Confidence Intervals
Grumman Road Landfill Client: Southern Company Data: Grumman Road Landfill

Sanitas™ v.10.0.23a Software licensed to Groundwater Stats Consulting. UG

Non-Parametric Confidence Interval

Compliance Limit is not exceeded. Per-well alpha = 0.01.

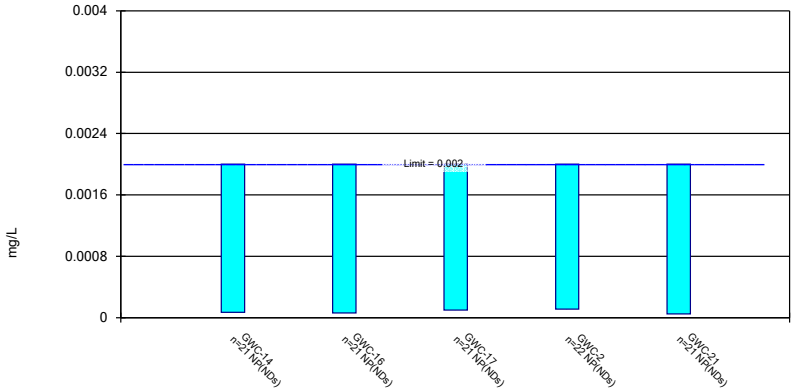


Constituent: Thallium Analysis Run 12/13/2024 1:54 PM View: Appendix II & IV - Confidence Intervals
Grumman Road Landfill Client: Southern Company Data: Grumman Road Landfill

Sanitas™ v.10.0.23a Software licensed to Groundwater Stats Consulting. UG

Non-Parametric Confidence Interval

Compliance Limit is not exceeded. Per-well alpha = 0.01.

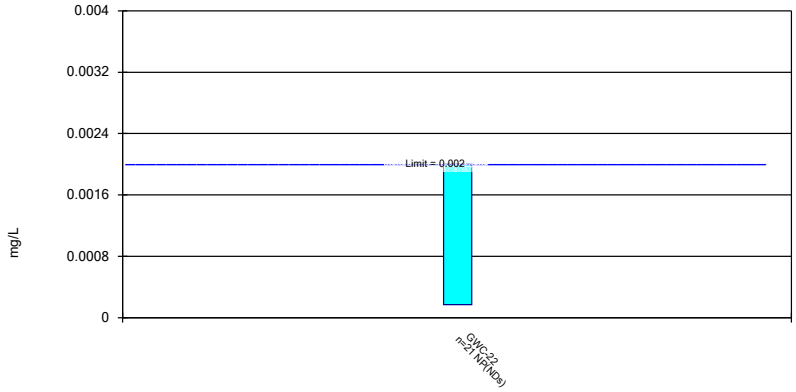


Constituent: Thallium Analysis Run 12/13/2024 1:54 PM View: Appendix II & IV - Confidence Intervals
Grumman Road Landfill Client: Southern Company Data: Grumman Road Landfill

Sanitas™ v.10.0.23a Software licensed to Groundwater Stats Consulting. UG

Non-Parametric Confidence Interval

Compliance Limit is not exceeded. Per-well alpha = 0.01.

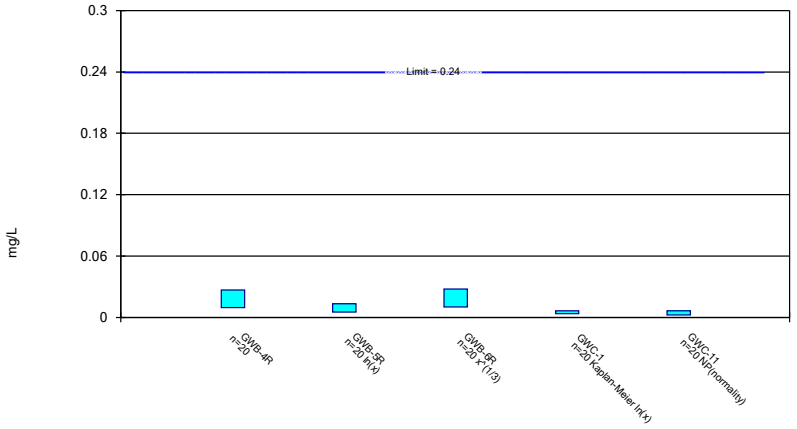


Constituent: Thallium Analysis Run 12/13/2024 1:54 PM View: Appendix II & IV - Confidence Intervals
Grumman Road Landfill Client: Southern Company Data: Grumman Road Landfill

Sanitas™ v.10.0.23a Software licensed to Groundwater Stats Consulting. UG

Parametric and Non-Parametric (NP) Confidence Interval

Compliance Limit is not exceeded. Per-well alpha = 0.01. Normality Test: Shapiro Wilk, alpha based on n.

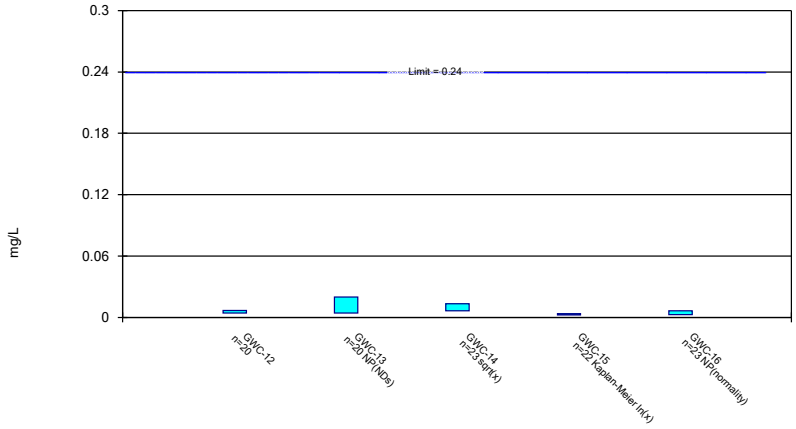


Constituent: Vanadium Analysis Run 12/13/2024 1:54 PM View: Appendix II & IV - Confidence Intervals
Grumman Road Landfill Client: Southern Company Data: Grumman Road Landfill

Sanitas™ v.10.0.23a Software licensed to Groundwater Stats Consulting. UG

Parametric and Non-Parametric (NP) Confidence Interval

Compliance Limit is not exceeded. Per-well alpha = 0.01. Normality Test: Shapiro Wilk, alpha based on n.

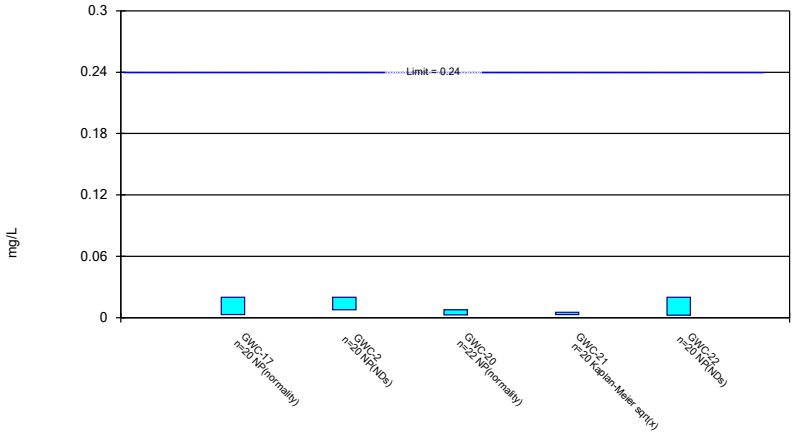


Constituent: Vanadium Analysis Run 12/13/2024 1:54 PM View: Appendix II & IV - Confidence Intervals
Grumman Road Landfill Client: Southern Company Data: Grumman Road Landfill

Sanitas™ v.10.0.23a Software licensed to Groundwater Stats Consulting. UG

Parametric and Non-Parametric (NP) Confidence Interval

Compliance Limit is not exceeded. Per-well alpha = 0.01. Normality Test: Shapiro Wilk, alpha based on n.

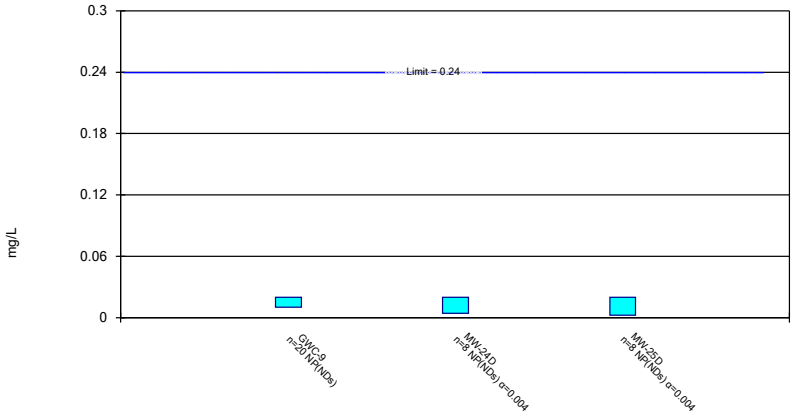


Constituent: Vanadium Analysis Run 12/13/2024 1:54 PM View: Appendix II & IV - Confidence Intervals
Grumman Road Landfill Client: Southern Company Data: Grumman Road Landfill

Sanitas™ v.10.0.23a Software licensed to Groundwater Stats Consulting. UG

Non-Parametric Confidence Interval

Compliance Limit is not exceeded. Per-well alpha = 0.01 except as noted.

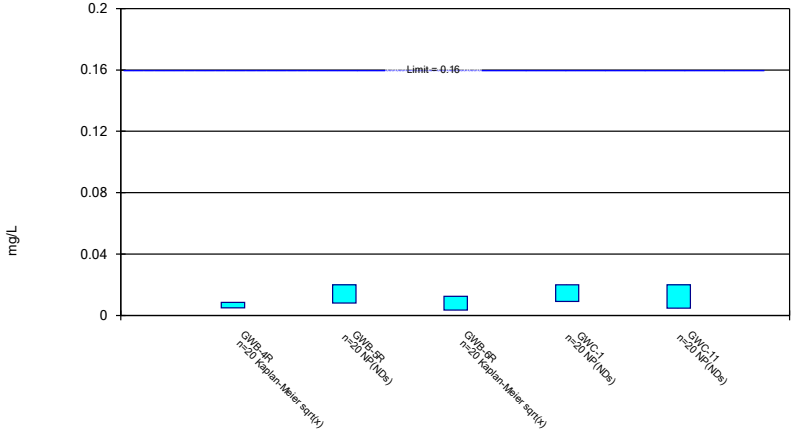


Constituent: Vanadium Analysis Run 12/13/2024 1:54 PM View: Appendix II & IV - Confidence Intervals
Grumman Road Landfill Client: Southern Company Data: Grumman Road Landfill

Sanitas™ v.10.0.23a Software licensed to Groundwater Stats Consulting. UG

Parametric and Non-Parametric (NP) Confidence Interval

Compliance Limit is not exceeded. Per-well alpha = 0.01. Normality Test: Shapiro Wilk, alpha based on n.

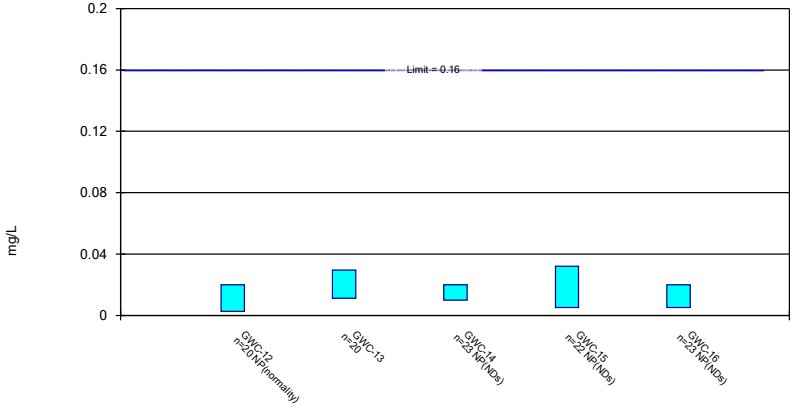


Constituent: Zinc Analysis Run 12/13/2024 1:54 PM View: Appendix II & IV - Confidence Intervals
Grumman Road Landfill Client: Southern Company Data: Grumman Road Landfill

Sanitas™ v.10.0.23a Software licensed to Groundwater Stats Consulting. UG

Parametric and Non-Parametric (NP) Confidence Interval

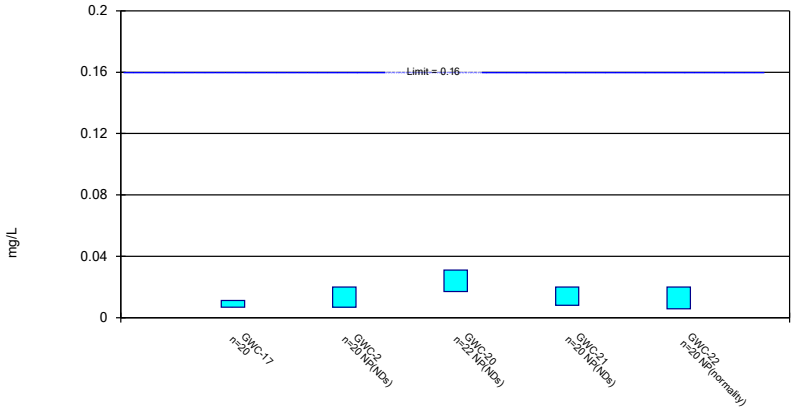
Compliance Limit is not exceeded. Per-well alpha = 0.01. Normality Test: Shapiro Wilk, alpha based on n.



Constituent: Zinc Analysis Run 12/13/2024 1:54 PM View: Appendix II & IV - Confidence Intervals
Grumman Road Landfill Client: Southern Company Data: Grumman Road 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.

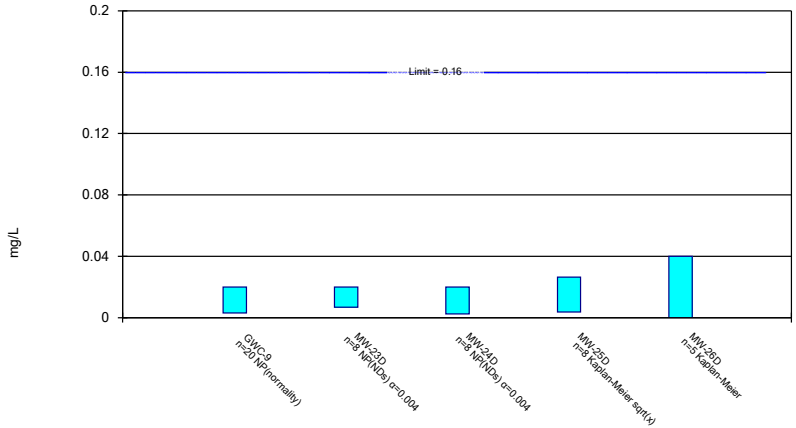


Constituent: Zinc Analysis Run 12/13/2024 1:54 PM View: Appendix II & IV - Confidence Intervals
Grumman Road Landfill Client: Southern Company Data: Grumman Road Landfill

Sanitas™ v.10.0.23a Software licensed to Groundwater Stats Consulting. UG

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 12/13/2024 1:54 PM View: Appendix II & IV - Confidence Intervals
Grumman Road Landfill Client: Southern Company Data: Grumman Road Landfill

Confidence Interval

Constituent: Antimony (mg/L) Analysis Run 12/13/2024 1:56 PM View: Appendix II & IV - Confidence Intervals

Grumman Road Landfill Client: Southern Company Data: Grumman Road Landfill

	GWB-4R	GWB-5R	GWB-6R	GWC-1	GWC-11
1/17/2016				<0.003	
1/18/2016	<0.003	<0.003	<0.003		
1/19/2016					<0.003
7/26/2016					0.0005 (J)
7/27/2016		<0.003		<0.003	
7/28/2016			<0.003		
7/29/2016	0.0003 (J)				
8/30/2016		<0.003	<0.003	<0.003	
8/31/2016					<0.003
9/1/2016	<0.003				
10/25/2016				<0.003	
10/26/2016	<0.003	<0.003	<0.003		<0.003
1/3/2017		<0.003			
1/4/2017				<0.003	<0.003
1/5/2017			<0.003		
1/6/2017	<0.003				
4/4/2017	<0.003			<0.003	
4/6/2017		<0.003	<0.003		0.0006 (J)
7/11/2017					0.0009 (J)
7/12/2017	<0.003	<0.003	<0.003	<0.003	
10/3/2017		<0.003	<0.003	<0.003	<0.003
10/4/2017	<0.003				
1/9/2018			<0.003		
1/10/2018		<0.003		<0.003	
1/11/2018	<0.003				0.0007 (J)
7/10/2018		<0.003	<0.003	<0.003	
7/11/2018	<0.003				<0.003
1/16/2019	<0.003	<0.003	<0.003	<0.003	
1/17/2019					<0.003
3/25/2019	<0.003				
3/26/2019		<0.003	<0.003	<0.003	
3/27/2019					<0.003
8/27/2019	<0.003		<0.003	<0.003	0.00033 (J)
8/28/2019		0.00054 (J)			
10/8/2019					0.00046 (J)
10/9/2019	<0.003	<0.003	<0.003	<0.003	
4/7/2020	<0.003	<0.003	<0.003	<0.003	0.00066 (J)
8/18/2020					0.00064 (J)
8/19/2020	<0.003	<0.003	<0.003	0.00061 (J)	
9/28/2020				0.00035 (J)	
9/29/2020					0.00051 (J)
9/30/2020		0.0003 (J)	0.00059 (J)		
10/1/2020	<0.003				
3/10/2021	<0.003	<0.003	0.00029 (J)	0.00069 (J)	0.00076 (J)
9/21/2021	<0.003	0.0013 (J)	<0.003		<0.003
9/23/2021				0.0016 (J)	
2/2/2022	<0.003		<0.003		
2/3/2022		<0.003		<0.003	<0.003
8/30/2022	<0.003	<0.003	<0.003		
8/31/2022					<0.003
9/1/2022				<0.003	
2/1/2023		<0.003	<0.003		<0.003

ND substitution: RL or RL/2 if <15% NDs.

Confidence Interval

Constituent: Antimony (mg/L) Analysis Run 12/13/2024 1:56 PM View: Appendix II & IV - Confidence Intervals

Grumman Road Landfill Client: Southern Company Data: Grumman Road Landfill

	GWB-4R	GWB-5R	GWB-6R	GWC-1	GWC-11
2/2/2023	<0.003			<0.003	
8/29/2023	<0.003	<0.003	<0.003	<0.003	
9/6/2023					<0.003
1/23/2024			<0.003	<0.003	
1/24/2024					<0.003
2/7/2024	<0.003				
2/8/2024		<0.003			
8/20/2024	<0.003		<0.003	<0.003	
8/21/2024		<0.003			<0.003
Mean	0.002892	0.002726	0.002795	0.00265	0.002042
Std. Dev.	0.00054	0.0007732	0.0007102	0.0008408	0.001201
Upper Lim.	0.003	0.003	0.003	0.003	0.003
Lower Lim.	0.0003	0.0013	0.00059	0.0016	0.00066

ND substitution: RL or RL/2 if <15% NDs.

Confidence Interval

Constituent: Antimony (mg/L) Analysis Run 12/13/2024 1:56 PM View: Appendix II & IV - Confidence Intervals

Grumman Road Landfill Client: Southern Company Data: Grumman Road Landfill

	GWC-12	GWC-13	GWC-15	GWC-17	GWC-2
1/17/2016			<0.003		<0.003
1/18/2016	<0.003	<0.003		<0.003	
7/26/2016		0.0006 (J)			
7/27/2016	<0.003		<0.003		<0.003
7/29/2016				<0.003	
8/31/2016	<0.003	<0.003			<0.003
9/1/2016			<0.003	<0.003	
10/25/2016			<0.003		
10/26/2016	<0.003	<0.003		<0.003	<0.003
1/4/2017	<0.003				
1/5/2017		<0.003	<0.003	<0.003	<0.003
4/3/2017			<0.003		
4/4/2017					<0.003
4/5/2017	<0.003			<0.003	
4/6/2017		<0.003			
7/10/2017	<0.003				
7/11/2017			<0.003		
7/12/2017		<0.003			
7/13/2017				<0.003	<0.003
10/2/2017			<0.003		
10/3/2017					<0.003
10/4/2017	<0.003	<0.003		<0.003	
1/9/2018			<0.003		
1/10/2018		<0.003			<0.003
1/11/2018	<0.003			<0.003	
7/10/2018			<0.003		<0.003
7/11/2018	<0.003	<0.003		<0.003	
1/16/2019		<0.003		<0.003	
1/17/2019	<0.003		<0.003		
1/21/2019					<0.003
3/26/2019		<0.003	<0.003	<0.003	
3/27/2019	<0.003				
7/30/2019					<0.003
8/27/2019	<0.003	<0.003	<0.003		<0.003
8/28/2019				<0.003	
10/8/2019		<0.003	<0.003		
10/9/2019	<0.003			<0.003	<0.003
4/7/2020	<0.003		<0.003		
4/8/2020		<0.003		<0.003	0.0013 (J)
8/17/2020	<0.003	<0.003			
8/18/2020			<0.003	<0.003	<0.003
9/28/2020		<0.003			
9/29/2020	<0.003				0.0016 (J)
9/30/2020			<0.003	<0.003	
3/10/2021	0.0003 (J)				
3/11/2021				0.00039 (J)	
3/12/2021			0.0018 (J)		
3/15/2021		<0.003			<0.003
9/21/2021	<0.003	<0.003			
9/22/2021				0.0014 (J)	<0.003
9/23/2021			<0.003		
2/1/2022				<0.003	

ND substitution: RL or RL/2 if <15% NDs.

Confidence Interval

Constituent: Antimony (mg/L) Analysis Run 12/13/2024 1:56 PM View: Appendix II & IV - Confidence Intervals
Grumman Road Landfill Client: Southern Company Data: Grumman Road Landfill

	GWC-12	GWC-13	GWC-15	GWC-17	GWC-2
2/2/2022					<0.003
2/3/2022	<0.003	<0.003	<0.003		
8/30/2022	<0.003				
8/31/2022		<0.003	<0.003	<0.003	
9/1/2022					<0.003
2/1/2023	<0.003	<0.003		0.00286 (J)	
2/2/2023			<0.003		<0.003
8/29/2023		<0.003		<0.003	<0.003
9/6/2023	<0.003				
9/7/2023			<0.003		
1/24/2024			<0.003	0.00245 (J)	
1/25/2024	<0.003	<0.003			<0.003
8/21/2024	<0.003	<0.003	<0.003	<0.003	<0.003
Mean	0.002892	0.002904	0.002952	0.002804	0.002876
Std. Dev.	0.00054	0.00048	0.00024	0.0006032	0.0004314
Upper Lim.	0.003	0.003	0.003	0.003	0.003
Lower Lim.	0.0003	0.0006	0.0018	0.00286	0.0016

ND substitution: RL or RL/2 if <15% NDs.

Confidence Interval

Constituent: Antimony (mg/L) Analysis Run 12/13/2024 1:56 PM View: Appendix II & IV - Confidence Intervals

Grumman Road Landfill Client: Southern Company Data: Grumman Road Landfill

	GWC-20	GWC-21	GWC-22	GWC-9
1/17/2016	<0.003	<0.003		
1/18/2016			<0.003	<0.003
7/28/2016	0.0019 (J)	<0.003		<0.003
7/29/2016			<0.003	
8/31/2016			<0.003	<0.003
9/1/2016	<0.003	<0.003		
10/25/2016	<0.003	<0.003		
10/26/2016			<0.003	
10/27/2016				0.0016 (J)
1/4/2017	<0.003	<0.003	<0.003	
1/6/2017				<0.003
4/4/2017	<0.003	<0.003		
4/6/2017			<0.003	<0.003
7/11/2017	<0.003		<0.003	
7/12/2017				<0.003
7/13/2017		<0.003		
10/2/2017	<0.003			
10/3/2017		<0.003		
10/4/2017			<0.003	<0.003
1/9/2018		<0.003		
1/10/2018	<0.003			
1/11/2018			<0.003	<0.003
7/9/2018	<0.003			
7/10/2018		<0.003		
7/11/2018			<0.003	<0.003
1/17/2019		<0.003		
1/18/2019			<0.003	<0.003
1/21/2019	<0.003			
3/25/2019	<0.003			
3/26/2019		<0.003		
3/27/2019			<0.003	<0.003
8/27/2019			0.00045 (J)	
8/28/2019	<0.003	<0.003		<0.003
10/8/2019		<0.003		
10/9/2019	<0.003		<0.003	<0.003
4/7/2020		<0.003	0.00049 (J)	
4/8/2020	<0.003			0.00033 (J)
8/18/2020	<0.003	<0.003	0.0022 (J)	
8/19/2020				<0.003
9/30/2020	<0.003	0.00033 (J)	0.0016 (J)	
10/1/2020				<0.003
3/10/2021			0.0004 (J)	<0.003
3/12/2021	0.00065 (J)			
3/16/2021		<0.003		
9/21/2021			<0.003	
9/22/2021	<0.003	<0.003		<0.003
2/1/2022	<0.003	<0.003		
2/2/2022				<0.003
2/3/2022			<0.003	
8/30/2022	<0.003	<0.003		
8/31/2022			<0.003	
9/1/2022				<0.003

ND substitution: RL or RL/2 if <15% NDs.

Confidence Interval

Constituent: Antimony (mg/L) Analysis Run 12/13/2024 1:56 PM View: Appendix II & IV - Confidence Intervals
Grumman Road Landfill Client: Southern Company Data: Grumman Road Landfill

	GWC-20	GWC-21	GWC-22	GWC-9
2/1/2023	<0.003			<0.003
2/2/2023		<0.003	<0.003	
8/29/2023			<0.003	<0.003
9/6/2023	<0.003	<0.003		
1/23/2024			<0.003	
1/24/2024	<0.003			<0.003
1/25/2024		<0.003		
8/21/2024	<0.003		<0.003	<0.003
8/22/2024		<0.003		
Mean	0.002862	0.002893	0.002606	0.002837
Std. Dev.	0.0005106	0.000534	0.0008726	0.0005925
Upper Lim.	0.003	0.003	0.003	0.003
Lower Lim.	0.0019	0.00033	0.0022	0.0016

ND substitution: RL or RL/2 if <15% NDs.

Confidence Interval

Constituent: Arsenic (mg/L) Analysis Run 12/13/2024 1:56 PM View: Appendix II & IV - Confidence Intervals

Grumman Road Landfill Client: Southern Company Data: Grumman Road Landfill

	GWB-4R	GWB-5R	GWB-6R	GWC-1	GWC-11
1/17/2016				0.024	
1/18/2016	<0.005	<0.005	<0.025		
1/19/2016					<0.005
7/26/2016					<0.005
7/27/2016		0.0008 (J)		0.0046 (J)	
7/28/2016			0.0009 (J)		
7/29/2016	0.0014 (J)				
8/30/2016		<0.005	<0.025	0.0023 (J)	
8/31/2016					<0.005
9/1/2016	0.0033 (J)				
10/25/2016				0.0035 (J)	
10/26/2016	0.0016 (J)	<0.005	<0.025		<0.005
1/3/2017		<0.005			
1/4/2017				0.0018 (J)	<0.005
1/5/2017			0.0021 (J)		
1/6/2017	<0.005				
4/4/2017	0.0021 (J)			0.0015 (J)	
4/6/2017		0.0006 (J)	0.0011 (J)		<0.005
7/11/2017					<0.005
7/12/2017	0.0015 (J)	0.0009 (J)	0.0014 (J)	0.0015 (J)	
10/3/2017		0.001 (J)	0.0014 (J)	0.0013 (J)	<0.005
10/4/2017	0.0018 (J)				
1/9/2018			0.0017 (J)		
1/10/2018		0.0012 (J)		0.0023 (J)	
1/11/2018	0.0015 (J)				<0.005
7/10/2018		0.0016 (J)	0.00063 (J)	0.0031 (J)	
7/11/2018	0.00095 (J)				<0.005
1/16/2019	0.0024 (J)	0.0011 (J)	<0.025	0.0023 (J)	
1/17/2019					<0.005
3/25/2019	0.0029 (J)				
3/26/2019		0.0014 (J)	0.0029 (J)	0.0032 (J)	
3/27/2019					<0.005
8/27/2019	0.0023 (J)		0.0035 (J)	0.0022 (J)	<0.005
8/28/2019		0.0023 (J)			
10/8/2019					<0.005
10/9/2019	0.0024 (J)	0.0053 (J)	0.0018 (J)	0.0042 (J)	
4/7/2020	0.0027 (J)	0.0011 (J)	<0.025	0.027	<0.005
8/18/2020					<0.005
8/19/2020	0.0033 (J)	0.0019 (J)	0.0036 (J)	0.007	
9/28/2020				0.0058	
9/29/2020					<0.005
9/30/2020		0.0017 (J)	0.004 (J)		
10/1/2020	0.0027 (J)				
3/10/2021	0.0025 (J)	0.0019 (J)	0.0054	0.0055	<0.005
9/21/2021	0.0027 (J)	<0.005	0.0054		<0.005
9/23/2021				0.0048 (J)	
2/2/2022	0.0036 (J)		0.01		
2/3/2022		0.0029 (J)		0.0057	<0.005
8/30/2022	0.0049 (J)	0.00253 (J)	0.00716		
8/31/2022					<0.005
9/1/2022				0.00568	
2/1/2023		0.00295 (J)	0.0042 (J)		<0.005

ND substitution: RL or RL/2 if <15% NDs.

Confidence Interval

Constituent: Arsenic (mg/L) Analysis Run 12/13/2024 1:56 PM View: Appendix II & IV - Confidence Intervals

Grumman Road Landfill Client: Southern Company Data: Grumman Road Landfill

	GWB-4R	GWB-5R	GWB-6R	GWC-1	GWC-11
2/2/2023	0.00556			0.00433 (J)	
8/29/2023	0.0057	0.00239 (J)	0.00724	0.00668	
9/6/2023					0.00254 (J)
1/23/2024			0.00451 (J)	0.00609	
1/24/2024					<0.005
2/7/2024	0.00903				
2/8/2024		0.0071			
8/20/2024	0.00377 (J)		0.0056	0.0131	
8/21/2024		0.00237 (J)			<0.005
Mean	0.003024	0.002722	0.007982	0.005979	0.004902
Std. Dev.	0.00174	0.001823	0.008968	0.006406	0.000492
Upper Lim.	0.00363	0.002454	0.003985	0.006268	0.005
Lower Lim.	0.002137	0.001267	0.001823	0.002872	0.00254

ND substitution: RL or RL/2 if <15% NDs.

Confidence Interval

Constituent: Arsenic (mg/L) Analysis Run 12/13/2024 1:56 PM View: Appendix II & IV - Confidence Intervals

Grumman Road Landfill Client: Southern Company Data: Grumman Road Landfill

	GWC-12	GWC-13	GWC-14	GWC-15	GWC-16
1/17/2016			0.002 (J)	0.014	0.089
1/18/2016	<0.005	<0.005			
4/26/2016			0.00183 (J)		0.0731
7/26/2016		<0.005			
7/27/2016	<0.005		0.0021 (J)	0.0303	
7/28/2016					0.0627
8/31/2016	<0.005	<0.005			
9/1/2016			0.0024 (J)	0.0533	0.0551
10/25/2016			<0.005	0.0551	0.0466
10/26/2016	<0.005	<0.005			
1/4/2017	<0.005				0.0444
1/5/2017		<0.005	0.0024 (J)	0.0437	
4/3/2017				0.0713	
4/4/2017			0.003 (J)		
4/5/2017	0.0006 (J)				0.0591
4/6/2017		<0.005			
7/10/2017	0.0008 (J)				
7/11/2017			0.0019 (J)	0.0745	
7/12/2017		<0.005			0.0776
10/2/2017			0.0026 (J)	0.0723	
10/3/2017					0.0813
10/4/2017	0.0009 (J)	<0.005			
1/9/2018			0.0021 (J)	0.0731	
1/10/2018		0.0006 (J)			0.085
1/11/2018	<0.005				
7/9/2018			0.0019 (J)		
7/10/2018				0.09	0.067
7/11/2018	<0.005	<0.005			
1/16/2019		<0.005	0.0016 (J)		
1/17/2019	<0.005			0.13	0.079
3/26/2019		0.00058 (J)	0.0023 (J)	0.1	0.089
3/27/2019	<0.005				
8/27/2019	<0.005	<0.005	0.0017 (J)	0.17	
8/28/2019					0.091
10/8/2019		<0.005	0.0017 (J)	0.13	0.088
10/9/2019	<0.005				
4/7/2020	<0.005		0.0018 (J)	0.24	0.091
4/8/2020		<0.005			
8/17/2020	<0.005	<0.005			
8/18/2020			0.0012 (J)	0.28	0.045
9/28/2020		<0.005			
9/29/2020	<0.005		<0.005		
9/30/2020				0.24	0.044
3/10/2021	<0.005				
3/12/2021				0.16	
3/15/2021		<0.005			
3/16/2021			<0.005		0.064
9/21/2021	<0.005	<0.005			
9/22/2021			0.0014 (J)		0.081
9/23/2021				0.21	
2/1/2022					0.095
2/2/2022			0.0036 (J)		

ND substitution: RL or RL/2 if <15% NDs.

Confidence Interval

Constituent: Arsenic (mg/L) Analysis Run 12/13/2024 1:56 PM View: Appendix II & IV - Confidence Intervals

Grumman Road Landfill Client: Southern Company Data: Grumman Road Landfill

	GWC-12	GWC-13	GWC-14	GWC-15	GWC-16
2/3/2022	0.0016 (J)	0.0025 (J)		0.23	
8/30/2022	<0.005		<0.005		
8/31/2022		<0.005		0.259	
9/1/2022					0.0987
2/1/2023	<0.005	<0.005			0.115
2/2/2023			0.00261 (J)	0.207	
8/29/2023		<0.005			
9/6/2023	<0.005		0.00244 (J)		0.12
9/7/2023				0.287	
1/24/2024				0.177	
1/25/2024	<0.005	<0.005	0.00216 (J)		0.131
8/21/2024	<0.005	<0.005	<0.005	0.183	0.131
Mean	0.004356	0.004547	0.002682	0.2233	0.08091
Std. Dev.	0.001514	0.001291	0.001253	0.04357	0.02515
Upper Lim.	0.005	0.005	0.002254	0.2622	0.09317
Lower Lim.	0.0016	0.0025	0.001723	0.1844	0.06865

ND substitution: RL or RL/2 if <15% NDs.

Confidence Interval

Constituent: Arsenic (mg/L) Analysis Run 12/13/2024 1:56 PM View: Appendix II & IV - Confidence Intervals

Grumman Road Landfill Client: Southern Company Data: Grumman Road Landfill

	GWC-17	GWC-2	GWC-20	GWC-21	GWC-22
1/17/2016		<0.005	0.34	0.0065	
1/18/2016	<0.005				<0.005
7/27/2016		<0.005			
7/28/2016			0.209	<0.005	
7/29/2016	0.0009 (J)				0.002 (J)
8/31/2016		<0.005			0.0017 (J)
9/1/2016	<0.005		0.215	0.0039 (J)	
10/25/2016			0.307	<0.005	
10/26/2016	<0.005	<0.005			<0.005
1/4/2017			0.311	<0.005	<0.005
1/5/2017	<0.005	<0.005			
4/4/2017		<0.005	0.317	0.0031 (J)	
4/5/2017	0.0011 (J)				
4/6/2017					0.0006 (J)
7/11/2017			0.299		0.0012 (J)
7/13/2017	0.0016 (J)	<0.005		<0.005	
10/2/2017			0.216		
10/3/2017		<0.005		<0.005	
10/4/2017	0.0019 (J)				0.0025 (J)
1/9/2018				0.0033 (J)	
1/10/2018		0.0006 (J)	0.347		
1/11/2018	0.0015 (J)				0.0006 (J)
7/9/2018			0.37		
7/10/2018		<0.005		0.0027 (J)	
7/11/2018	0.00082 (J)				0.0011 (J)
1/16/2019	<0.005				
1/17/2019				0.0022 (J)	
1/18/2019					<0.005
1/21/2019		<0.005	0.44		
3/25/2019			0.41		
3/26/2019	0.0015 (J)			0.0045 (J)	
3/27/2019					<0.005
7/30/2019		0.00039 (J)			
8/27/2019		<0.005			0.00044 (J)
8/28/2019	0.0011 (J)		0.43	0.002 (J)	
10/8/2019				0.0028 (J)	
10/9/2019	0.0011 (J)	<0.005	0.35		<0.005
4/7/2020				<0.005	0.00043 (J)
4/8/2020	0.0013 (J)	0.00094 (J)	0.33		
8/18/2020	<0.005	<0.005	0.3	0.0059	<0.005
9/29/2020		<0.005			
9/30/2020	0.0012 (J)		0.31	0.0029 (J)	<0.005
3/10/2021					<0.005
3/11/2021	0.0009 (J)				
3/12/2021			0.27		
3/15/2021		<0.005			
3/16/2021				0.0098	
9/21/2021					<0.005
9/22/2021	<0.005	<0.005	0.23	<0.005	
2/1/2022	<0.005		0.22	0.02	
2/2/2022		<0.005			
2/3/2022					<0.005

ND substitution: RL or RL/2 if <15% NDs.

Confidence Interval

Constituent: Arsenic (mg/L) Analysis Run 12/13/2024 1:56 PM View: Appendix II & IV - Confidence Intervals

Grumman Road Landfill Client: Southern Company Data: Grumman Road Landfill

	GWC-17	GWC-2	GWC-20	GWC-21	GWC-22
8/30/2022			0.465	0.0271	
8/31/2022	<0.005				<0.005
9/1/2022		<0.005			
2/1/2023	<0.005		0.389		
2/2/2023		<0.005		0.0323	<0.005
8/29/2023	<0.005	<0.005			0.00216 (J)
9/6/2023			0.258	0.0323	
1/23/2024					<0.005
1/24/2024	<0.005		0.552		
1/25/2024		<0.005		0.0319	
8/21/2024	<0.005	<0.005	0.423		<0.005
8/22/2024				0.00929	
Mean	0.003197	0.004477	0.3323	0.0095	0.003509
Std. Dev.	0.001928	0.001447	0.08791	0.01022	0.001922
Upper Lim.	0.005	0.005	0.3761	0.00929	0.005
Lower Lim.	0.0012	0.00094	0.2885	0.0033	0.0017

ND substitution: RL or RL/2 if <15% NDs.

Confidence Interval

Constituent: Arsenic (mg/L) Analysis Run 12/13/2024 1:56 PM View: Appendix II & IV - Confidence Intervals

Grumman Road Landfill Client: Southern Company Data: Grumman Road Landfill

	GWC-9	MW-25D	MW-26D
1/18/2016	<0.005		
7/28/2016	<0.005		
8/31/2016	<0.005		
10/27/2016	<0.005		
1/6/2017	<0.005		
4/6/2017	<0.005		
7/12/2017	<0.005		
10/4/2017	<0.005		
1/11/2018	<0.005		
7/11/2018	<0.005		
1/18/2019	<0.005		
3/27/2019	<0.005		
8/28/2019	<0.005		
10/9/2019	<0.005		
4/8/2020	0.00084 (J)		
8/19/2020	<0.005		
10/1/2020	<0.005		
1/20/2021		<0.005	
3/10/2021	<0.005		
3/11/2021		0.00092 (J)	0.001 (J)
9/21/2021			<0.005
9/22/2021	<0.005		
9/23/2021		<0.005	
2/2/2022	<0.005		0.0015 (J)
2/3/2022		<0.005	
8/31/2022		<0.005	
9/1/2022	<0.005		
2/1/2023	<0.005		
2/2/2023		<0.005	
8/29/2023	<0.005		
9/7/2023		<0.005	
1/24/2024	<0.005		
1/25/2024		<0.005	<0.005
8/20/2024			<0.005
8/21/2024	<0.005	<0.005	
Mean	0.004834	0.004547	0.0035
Std. Dev.	0.000832	0.00136	0.002062
Upper Lim.	0.005	0.005	0.005
Lower Lim.	0.00084	0.00092	0.001

ND substitution: RL or RL/2 if <15% NDs.

Confidence Interval

Constituent: Barium (mg/L) Analysis Run 12/13/2024 1:56 PM View: Appendix II & IV - Confidence Intervals

Grumman Road Landfill Client: Southern Company Data: Grumman Road Landfill

	GWB-4R	GWB-5R	GWB-6R	GWC-1	GWC-11
1/17/2016				0.062	
1/18/2016	0.095	0.12	0.11		
1/19/2016					0.048
7/26/2016					0.051
7/27/2016		0.112		0.0417	
7/28/2016			0.105		
7/29/2016	0.0883				
8/30/2016		0.135	0.106	0.0545	
8/31/2016					0.0565
9/1/2016	0.123				
10/25/2016				0.0504	
10/26/2016	0.0863	0.103	0.107		0.0591
1/3/2017		0.118			
1/4/2017				0.0534	0.0598
1/5/2017			0.107		
1/6/2017	0.0758				
4/4/2017	0.091			0.0549	
4/6/2017		0.162	0.111		0.0813
7/11/2017					0.0302
7/12/2017	0.0941	0.157	0.106	0.0614	
10/3/2017		0.127	0.105	0.0436	0.103
10/4/2017	0.0994				
1/9/2018			0.0969		
1/10/2018		0.158		0.053	
1/11/2018	0.088				0.166
7/10/2018		0.31	0.087	0.059	
7/11/2018	0.071				0.12
1/16/2019	0.083	0.054	0.013 (J)	0.054	
1/17/2019					0.039
3/25/2019	0.077				
3/26/2019		0.057	0.012 (J)	0.055	
3/27/2019					0.053
8/27/2019	0.076		0.013	0.054	0.12
8/28/2019		0.1			
10/8/2019					0.13
10/9/2019	0.076	0.13	0.014 (J)	0.058	
4/7/2020	0.09	0.098	0.01 (J)	0.05	0.14
8/18/2020					0.12
8/19/2020	0.076	0.1	0.064	0.057	
9/28/2020				0.051	
9/29/2020					0.14
9/30/2020		0.16	0.092		
10/1/2020	0.077				
3/10/2021	0.07	0.096	0.027	0.052	0.13
9/21/2021	0.098	0.076	0.077		0.12
9/23/2021				0.062	
2/2/2022	0.17		0.026		
2/3/2022		0.062		0.051	0.17
8/30/2022	0.134	0.051	0.0266		
8/31/2022					0.115
9/1/2022				0.0583	
2/1/2023		0.101	0.0233		0.146

Confidence Interval

Constituent: Barium (mg/L) Analysis Run 12/13/2024 1:56 PM View: Appendix II & IV - Confidence Intervals

Grumman Road Landfill Client: Southern Company Data: Grumman Road Landfill

	GWB-4R	GWB-5R	GWB-6R	GWC-1	GWC-11
2/2/2023	0.101			0.0466	
8/29/2023	0.16	0.0643	0.0196	0.0637	
9/6/2023					0.192
1/23/2024			0.0239	0.0531	
1/24/2024					0.146
2/7/2024	0.178				
2/8/2024		0.168			
8/20/2024	0.214		0.028	0.0452	
8/21/2024		0.0921			0.126
Mean	0.1037	0.1165	0.06041	0.05379	0.1065
Std. Dev.	0.03821	0.05381	0.04144	0.005741	0.04558
Upper Lim.	0.101	0.1368	0.105	0.05665	0.1292
Lower Lim.	0.077	0.0886	0.0233	0.05093	0.08376

Confidence Interval

Constituent: Barium (mg/L) Analysis Run 12/13/2024 1:56 PM View: Appendix II & IV - Confidence Intervals

Grumman Road Landfill Client: Southern Company Data: Grumman Road Landfill

	GWC-12	GWC-13	GWC-14	GWC-15	GWC-16
1/17/2016			0.038	0.048	0.056
1/18/2016	0.032	0.026			
4/26/2016			0.025		0.0721
7/26/2016		0.0236			
7/27/2016	0.0191		0.0248	0.0487	
7/28/2016					0.0534
8/31/2016	0.019	0.0273			
9/1/2016			0.0346	0.0403	0.0445
10/25/2016			0.0248	0.0329	0.0464
10/26/2016	0.0197	0.0238			
1/4/2017	0.0174				0.0379
1/5/2017		0.0218	0.0245	0.0392	
4/3/2017				0.0439	
4/4/2017			0.0342		
4/5/2017	0.0174				0.0534
4/6/2017		0.0204			
7/10/2017	0.0172				
7/11/2017			0.0276	0.051	
7/12/2017		0.0161			0.0944
10/2/2017			0.0274	0.047	
10/3/2017					0.135
10/4/2017	0.0162	0.0185			
1/9/2018			0.0222	0.0431	
1/10/2018		0.0166			0.0603
1/11/2018	0.018				
7/9/2018			0.026		
7/10/2018				0.047	0.16
7/11/2018	0.014	0.019			
1/16/2019		0.019	0.028		
1/17/2019	0.017			0.042	0.13
3/26/2019		0.026	0.034	0.047	0.14
3/27/2019	0.017				
8/27/2019	0.017	0.024	0.067	0.049	
8/28/2019					0.09
10/8/2019		0.024	0.085	0.057	0.13
10/9/2019	0.019				
4/7/2020	0.017		0.073	0.033	0.13
4/8/2020		0.027			
8/17/2020	0.018	0.024			
8/18/2020			0.028	0.03	0.32
9/28/2020		0.029			
9/29/2020	0.018		0.026		
9/30/2020				0.034	0.14
3/10/2021	0.028				
3/12/2021				0.038	
3/15/2021		0.034			
3/16/2021			0.037		0.16
9/21/2021	0.023	0.037			
9/22/2021			0.11		0.26
9/23/2021				0.062	
2/1/2022					0.23
2/2/2022			0.1		

Confidence Interval

Constituent: Barium (mg/L) Analysis Run 12/13/2024 1:56 PM View: Appendix II & IV - Confidence Intervals

Grumman Road Landfill Client: Southern Company Data: Grumman Road Landfill

	GWC-12	GWC-13	GWC-14	GWC-15	GWC-16
2/3/2022	0.025	0.038		0.061	
8/30/2022	0.0275		0.0773		
8/31/2022		0.0379		0.055	
9/1/2022					0.165
2/1/2023	0.0256	0.0367			0.163
2/2/2023			0.0617	0.0557	
8/29/2023		0.0712			
9/6/2023	0.0273		0.0833		0.143
9/7/2023				0.0573	
1/24/2024				0.0529	
1/25/2024	0.0267	0.0607	0.0418		0.119
8/21/2024	0.0236	0.0526	0.0355	0.0541	0.111
Mean	0.02079	0.03017	0.04603	0.04676	0.1248
Std. Dev.	0.004778	0.01374	0.02646	0.009046	0.06881
Upper Lim.	0.0229	0.03479	0.067	0.05127	0.1583
Lower Lim.	0.01831	0.02314	0.026	0.04226	0.09125

Confidence Interval

Constituent: Barium (mg/L) Analysis Run 12/13/2024 1:56 PM View: Appendix II & IV - Confidence Intervals

Grumman Road Landfill Client: Southern Company Data: Grumman Road Landfill

	GWC-17	GWC-2	GWC-20	GWC-21	GWC-22
1/17/2016		0.049	0.08	0.079	
1/18/2016	0.13				0.062
7/27/2016		0.0796			
7/28/2016			0.164	0.0626	
7/29/2016	0.181				0.0575
8/31/2016		0.0429			0.0693
9/1/2016	0.203		0.0976	0.077	
10/25/2016			0.0702	0.0217	
10/26/2016	0.177	0.113 (O)			0.0966
1/4/2017			0.0999	0.0617	0.0975
1/5/2017	0.142	0.0526			
4/4/2017		0.0503	0.136	0.0761	
4/5/2017	0.106				
4/6/2017					0.064
7/11/2017			0.145		0.0778
7/13/2017	0.0686	0.0529		0.0428	
10/2/2017			0.148		
10/3/2017		0.057		0.0376	
10/4/2017	0.0589				0.156
1/9/2018				0.0704	
1/10/2018		0.0527	0.0788		
1/11/2018	0.0412				0.0702
7/9/2018			0.087		
7/10/2018		0.054		0.061	
7/11/2018	0.049				0.12
1/16/2019	0.063				
1/17/2019				0.061	
1/18/2019					0.052
1/21/2019		0.05	0.069		
3/25/2019			0.085		
3/26/2019	0.025			0.084	
3/27/2019					0.057
7/30/2019		0.052			
8/27/2019		0.053			0.097
8/28/2019	0.026		0.078	0.063	
10/8/2019				0.079	
10/9/2019	0.032	0.05	0.078		0.065
4/7/2020				0.054	0.1
4/8/2020	0.055	0.061	0.19		
8/18/2020	0.074	0.05	0.38	0.18	0.085
9/29/2020		0.049			
9/30/2020	0.035		0.35	0.19	0.045
3/10/2021					0.049
3/11/2021	0.044				
3/12/2021			0.34		
3/15/2021		0.053			
3/16/2021				0.18	
9/21/2021					0.036
9/22/2021	0.058	0.047	0.42	0.046	
2/1/2022	0.055		0.36	0.24	
2/2/2022		0.052			
2/3/2022					0.038

Confidence Interval

Constituent: Barium (mg/L) Analysis Run 12/13/2024 1:56 PM View: Appendix II & IV - Confidence Intervals

Grumman Road Landfill Client: Southern Company Data: Grumman Road Landfill

	GWC-17	GWC-2	GWC-20	GWC-21	GWC-22
8/30/2022			0.21	0.191	
8/31/2022	0.0375				0.0741
9/1/2022		0.0508			
2/1/2023	0.0262		0.194		
2/2/2023		0.0461		0.196	0.0456
8/29/2023	0.0295	0.0452			0.127
9/6/2023			0.178	0.232	
1/23/2024					0.0372
1/24/2024	0.029		0.109		
1/25/2024		0.0505		0.203	
8/21/2024	0.0254	0.0506	0.226		0.0362
8/22/2024				0.291	
Mean	0.07085	0.05213	0.1749	0.1152	0.0726
Std. Dev.	0.05368	0.006923	0.1105	0.07785	0.0311
Upper Lim.	0.07845	0.0529	0.208	0.138	0.0881
Lower Lim.	0.04041	0.049	0.1127	0.06886	0.0571

Confidence Interval

Constituent: Barium (mg/L) Analysis Run 12/13/2024 1:56 PM View: Appendix II & IV - Confidence Intervals

Grumman Road Landfill Client: Southern Company Data: Grumman Road Landfill

	GWC-9	MW-23D	MW-24D	MW-25D	MW-26D
1/18/2016	0.2				
7/28/2016	0.234				
8/31/2016	0.284				
10/27/2016	0.244				
1/6/2017	0.305				
4/6/2017	0.249				
7/12/2017	0.256				
10/4/2017	0.356				
1/11/2018	0.226				
7/11/2018	0.29				
1/18/2019	0.21				
3/27/2019	0.19				
8/28/2019	0.17				
10/9/2019	0.18				
4/8/2020	0.15				
8/19/2020	0.17				
10/1/2020	0.15				
3/10/2021	0.15				
3/11/2021		0.076	0.047	0.03	0.037
9/21/2021					0.027
9/22/2021	0.15	0.076	0.038		
9/23/2021				0.024	
2/1/2022			0.036		
2/2/2022	0.15				0.026
2/3/2022		0.079		0.024	
8/31/2022		0.0765		0.0216	
9/1/2022	0.151		0.0267		
2/1/2023	0.128	0.06			
2/2/2023			0.0268	0.0253	
8/29/2023	0.138				
9/6/2023		0.0732	0.034		
9/7/2023				0.029	
1/24/2024	0.134	0.0554			
1/25/2024			0.027	0.0233	0.0287
8/20/2024					0.0297
8/21/2024	0.149	0.0642	0.028	0.0253	
Mean	0.2006	0.07004	0.03294	0.02531	0.02968
Std. Dev.	0.06228	0.008882	0.007271	0.00285	0.004338
Upper Lim.	0.2316	0.07945	0.04046	0.02833	0.03695
Lower Lim.	0.1695	0.06062	0.0256	0.02229	0.02241

Confidence Interval

Constituent: Beryllium (mg/L) Analysis Run 12/13/2024 1:56 PM View: Appendix II & IV - Confidence Intervals

Grumman Road Landfill Client: Southern Company Data: Grumman Road Landfill

	GWB-4R	GWB-5R	GWB-6R	GWC-11	GWC-12
8/30/2016		0.0002 (J)	<0.0005		
8/31/2016				<0.0005	0.0011 (J)
9/1/2016	0.0004 (J)				
10/26/2016	0.0001 (J)	0.0001 (J)	<0.0005	<0.0005	0.0011 (J)
1/3/2017		0.0001 (J)			
1/4/2017				<0.0005	0.0009 (J)
1/5/2017			<0.0005		
1/6/2017	0.0001 (J)				
4/4/2017	0.0001 (J)				
4/5/2017					0.0008 (J)
4/6/2017		0.0003 (J)	<0.0005	<0.0005	
7/10/2017					0.0008 (J)
7/11/2017				<0.0005	
7/12/2017	<0.0005	0.0002 (J)	<0.0005		
10/3/2017		0.0002 (J)	<0.0005	<0.0005	
10/4/2017	0.0001 (J)				0.0006 (J)
1/9/2018			<0.0005		
1/10/2018		0.0003 (J)			
1/11/2018	0.0001 (J)			<0.0005	0.0006 (J)
7/10/2018		0.00028 (J)	<0.0005		
7/11/2018	<0.0005			<0.0005	0.00061 (J)
8/27/2019	<0.0005		<0.0005	<0.0005	0.00047 (J)
8/28/2019		7.6E-05 (J)			
10/8/2019				<0.0005	
10/9/2019	<0.0005	<0.0005	<0.0005		0.00046 (J)
4/7/2020	<0.0005	<0.0005	<0.0005	<0.0005	0.00051 (J)
8/17/2020					0.00046 (J)
8/18/2020				<0.0005	
8/19/2020	<0.0005	<0.0005	5E-05 (J)		
9/29/2020				<0.0005	0.00043 (J)
9/30/2020		6.5E-05 (J)	4.6E-05 (J)		
10/1/2020	<0.0005				
3/10/2021	<0.0005	8.2E-05 (J)	<0.0005	4.7E-05 (J)	0.00054
9/21/2021	<0.0005	9.9E-05 (J)	<0.0005	<0.0005	0.00047 (J)
2/2/2022	<0.0005		<0.0005		
2/3/2022		0.00014 (J)		<0.0005	0.00056
8/30/2022	<0.0005	<0.0005	<0.0005		0.000663
8/31/2022				<0.0005	
2/1/2023		<0.0005	<0.0005	<0.0005	0.000634
2/2/2023	<0.0005				
8/29/2023	<0.0005	<0.0005	<0.0005		
9/6/2023				<0.0005	0.000521
1/23/2024			<0.0005		
1/24/2024				<0.0005	
1/25/2024					0.000534
2/7/2024	<0.0005				
2/8/2024		<0.0005			
8/20/2024	<0.0005		<0.0005		
8/21/2024		<0.0005		<0.0005	0.000587
Mean	0.0004	0.0002925	0.000457	0.0004784	0.0006357
Std. Dev.	0.0001732	0.00018	0.000136	9.885E-05	0.0001968
Upper Lim.	0.0005	0.0005	0.0005	0.0005	0.0007221

ND substitution: RL or RL/2 if <15% NDs.

Confidence Interval

Constituent: Beryllium (mg/L) Analysis Run 12/13/2024 1:56 PM View: Appendix II & IV - Confidence Intervals
Grumman Road Landfill Client: Southern Company Data: Grumman Road Landfill

	GWB-4R	GWB-5R	GWB-6R	GWC-11	GWC-12
Lower Lim.	0.0004	0.0001	5E-05	4.7E-05	0.0005262

Confidence Interval

Constituent: Beryllium (mg/L) Analysis Run 12/13/2024 1:56 PM View: Appendix II & IV - Confidence Intervals
Grumman Road Landfill Client: Southern Company Data: Grumman Road Landfill

	GWC-13	GWC-14	GWC-16	GWC-17	GWC-2
8/31/2016	<0.0005				<0.0005
9/1/2016		0.0001 (J)	0.0001 (J)	0.0014 (J)	
10/25/2016		<0.0005	<0.0005		
10/26/2016	<0.0005			0.0016 (J)	0.0003 (J)
1/4/2017			9E-05 (J)		
1/5/2017	<0.0005	<0.0005		0.0019 (J)	<0.0005
4/4/2017		9E-05 (J)			9E-05 (J)
4/5/2017			9E-05 (J)	0.0024 (J)	
4/6/2017	<0.0005				
7/11/2017		<0.0005			
7/12/2017	<0.0005		<0.0005		
7/13/2017				0.0034	<0.0005
10/2/2017		<0.0005			
10/3/2017			<0.0005		<0.0005
10/4/2017	<0.0005			0.0037	
1/9/2018		<0.0005			
1/10/2018	<0.0005		0.0001 (J)		<0.0005
1/11/2018				0.0033	
7/9/2018		6.2E-05 (J)			
7/10/2018			6E-05 (J)		<0.0005
7/11/2018	5.8E-05 (J)			0.0038	
7/30/2019					<0.0005
8/27/2019	<0.0005	<0.0005			<0.0005
8/28/2019			8E-05 (J)	0.0017 (J)	
10/8/2019	<0.0005	<0.0005	9.8E-05 (J)		
10/9/2019				0.0018 (J)	<0.0005
4/7/2020		<0.0005	<0.0005		
4/8/2020	<0.0005			0.0017 (J)	8.8E-05 (J)
8/17/2020	<0.0005				
8/18/2020		<0.0005	6.8E-05 (J)	0.0016 (J)	5.1E-05 (J)
9/28/2020	<0.0005				
9/29/2020		<0.0005			7.5E-05 (J)
9/30/2020			8.9E-05 (J)	0.0013 (J)	
3/11/2021				0.0012	
3/15/2021	<0.0005				7.3E-05 (J)
3/16/2021		<0.0005	<0.0005		
9/21/2021	<0.0005				
9/22/2021		<0.0005	6E-05 (J)	0.0017	<0.0005
2/1/2022			<0.0005	0.002	
2/2/2022		<0.0005			<0.0005
2/3/2022	<0.0005				
8/30/2022		<0.0005			
8/31/2022	<0.0005			0.00258	
9/1/2022			<0.0005		<0.0005
2/1/2023	<0.0005		<0.0005	0.00206	
2/2/2023		<0.0005			<0.0005
8/29/2023	<0.0005			0.00174	<0.0005
9/6/2023		<0.0005	<0.0005		
1/24/2024				0.00158	
1/25/2024	<0.0005	<0.0005	<0.0005		<0.0005
8/21/2024	<0.0005	<0.0005	<0.0005	0.00186	<0.0005
Mean	0.000479	0.0004406	0.0003017	0.00211	0.0003944

ND substitution: RL or RL/2 if <15% NDs.

Confidence Interval

Constituent: Beryllium (mg/L) Analysis Run 12/13/2024 1:56 PM View: Appendix II & IV - Confidence Intervals
Grumman Road Landfill Client: Southern Company Data: Grumman Road Landfill

	GWC-13	GWC-14	GWC-16	GWC-17	GWC-2
Std. Dev.	9.645E-05	0.0001493	0.0002134	0.0007879	0.0001822
Upper Lim.	0.0005	0.0005	0.0005	0.002446	0.0005
Lower Lim.	5.8E-05	0.0001	8.9E-05	0.001663	0.0003

Confidence Interval

Constituent: Beryllium (mg/L) Analysis Run 12/13/2024 1:56 PM View: Appendix II & IV - Confidence Intervals
Grumman Road Landfill Client: Southern Company Data: Grumman Road Landfill

	GWC-22	GWC-9	MW-25D	MW-26D
8/31/2016	0.0002 (J)	0.0003 (J)		
10/26/2016	0.0002 (J)			
10/27/2016		0.0003 (J)		
1/4/2017	0.0001 (J)			
1/6/2017		0.0002 (J)		
4/6/2017	<0.0005	0.0003 (J)		
7/11/2017	<0.0005			
7/12/2017		0.0003 (J)		
10/4/2017	0.0001 (J)	0.0002 (J)		
1/11/2018	<0.0005	0.0003 (J)		
7/11/2018	7E-05 (J)	0.0003 (J)		
8/27/2019	9E-05 (J)			
8/28/2019		0.00022 (J)		
10/9/2019	<0.0005	0.00023 (J)		
4/7/2020	<0.0005			
4/8/2020		0.00019 (J)		
8/18/2020	7.6E-05 (J)			
8/19/2020		0.00022 (J)		
9/30/2020	<0.0005			
10/1/2020		0.0002 (J)		
3/10/2021	<0.0005	0.00019 (J)		
3/11/2021			8.4E-05 (J)	0.0001 (J)
9/21/2021	<0.0005			7.3E-05 (J)
9/22/2021		0.00017 (J)		
9/23/2021			<0.0005	
2/2/2022		0.00018 (J)		8.8E-05 (J)
2/3/2022	<0.0005		<0.0005	
8/31/2022	<0.0005		<0.0005	
9/1/2022		<0.0005		
2/1/2023		0.000215 (J)		
2/2/2023	<0.0005		<0.0005	
8/29/2023	<0.0005	<0.0005		
9/7/2023			<0.0005	
1/23/2024	<0.0005			
1/24/2024		<0.0005		
1/25/2024			<0.0005	<0.0005
8/20/2024				<0.0005
8/21/2024	<0.0005	0.00021 (J)	<0.0005	
Mean	0.0003731	0.0002369	0.000448	0.0002522
Std. Dev.	0.0001864	4.606E-05	0.0001471	0.0002264
Upper Lim.	0.0005	0.0002606	0.0005	0.0005
Lower Lim.	0.0001	0.0002104	8.4E-05	7.3E-05

ND substitution: RL or RL/2 if <15% NDs.

Confidence Interval

Constituent: Cadmium (mg/L) Analysis Run 12/13/2024 1:56 PM View: Appendix II & IV - Confidence Intervals

Grumman Road Landfill Client: Southern Company Data: Grumman Road Landfill

	GWB-4R	GWC-1	GWC-11	GWC-14	GWC-20
8/30/2016		<0.001			
8/31/2016			0.0002 (J)		
9/1/2016	0.0002 (J)			0.0001 (J)	<0.001
10/25/2016		<0.001		0.0002 (J)	<0.001
10/26/2016	<0.001		0.0001 (J)		
1/4/2017		0.0001 (J)	0.0001 (J)		<0.001
1/5/2017				0.0002 (J)	
1/6/2017	9E-05 (J)				
4/4/2017	9E-05 (J)	7E-05 (J)		0.0002 (J)	<0.001
4/6/2017			0.0002 (J)		
7/11/2017			<0.001	0.0002 (J)	<0.001
7/12/2017	<0.001	<0.001			
10/2/2017				<0.001	<0.001
10/3/2017		<0.001	0.0003 (J)		
10/4/2017	<0.001				
1/9/2018				<0.001	
1/10/2018		<0.001			<0.001
1/11/2018	0.0002 (J)		0.0006 (J)		
7/9/2018				0.00017 (J)	<0.001
7/10/2018		<0.001			
7/11/2018	<0.001		0.0004 (J)		
8/27/2019	<0.001	<0.001	0.00044 (J)	<0.001	
8/28/2019					<0.001
10/8/2019			0.00043 (J)	<0.001	
10/9/2019	<0.001	<0.001			<0.001
4/7/2020	<0.001	<0.001	0.00051 (J)	<0.001	
4/8/2020					<0.001
8/18/2020			0.00058 (J)	<0.001	<0.001
8/19/2020	<0.001	<0.001			
9/28/2020		<0.001			
9/29/2020			0.00077 (J)	0.00012 (J)	
9/30/2020					<0.001
10/1/2020	<0.001				
3/10/2021	<0.001	<0.001	0.0009		
3/12/2021					0.00018 (J)
3/16/2021				<0.001	
9/21/2021	<0.001		0.00036 (J)		
9/22/2021				<0.001	0.00013 (J)
9/23/2021		<0.001			
2/1/2022					0.0002 (J)
2/2/2022	<0.001			<0.001	
2/3/2022		<0.001	0.00019 (J)		
8/30/2022	<0.001			<0.001	<0.001
8/31/2022			0.000431 (J)		
9/1/2022		<0.001			
2/1/2023			0.000926 (J)		<0.001
2/2/2023	<0.001	<0.001		<0.001	
8/29/2023	0.000304 (J)	<0.001			
9/6/2023			0.000563 (J)	<0.001	0.000823 (J)
1/23/2024		<0.001			
1/24/2024			0.000456 (J)		<0.001
1/25/2024				<0.001	

ND substitution: RL or RL/2 if <15% NDs.

Confidence Interval

Constituent: Cadmium (mg/L) Analysis Run 12/13/2024 1:56 PM View: Appendix II & IV - Confidence Intervals
Grumman Road Landfill Client: Southern Company Data: Grumman Road Landfill

	GWB-4R	GWC-1	GWC-11	GWC-14	GWC-20
2/7/2024	<0.001				
8/20/2024	<0.001	<0.001			
8/21/2024			<0.001	<0.001	<0.001
Mean	0.000804	0.0009129	0.0004503	0.0007233	0.000873
Std. Dev.	0.0003615	0.0002753	0.0002306	0.0004016	0.0002968
Upper Lim.	0.001	0.001	0.0005775	0.001	0.001
Lower Lim.	0.000304	0.0001	0.0003231	0.0002	0.000823

ND substitution: RL or RL/2 if <15% NDs.

Confidence Interval

Constituent: Cadmium (mg/L) Analysis Run 12/13/2024 1:56 PM View: Appendix II & IV - Confidence Intervals

Grumman Road Landfill Client: Southern Company Data: Grumman Road Landfill

	GWC-22	MW-23D	MW-25D	MW-26D
8/31/2016	8E-05 (J)			
10/26/2016	<0.001			
1/4/2017	0.0001 (J)			
4/6/2017	0.0001 (J)			
7/11/2017	<0.001			
10/4/2017	0.0002 (J)			
1/11/2018	0.0002 (J)			
7/11/2018	0.00023 (J)			
8/27/2019	<0.001			
10/9/2019	0.00012 (J)			
4/7/2020	0.00054 (J)			
8/18/2020	0.00024 (J)			
9/30/2020	0.00024 (J)			
3/10/2021	<0.001			
3/11/2021		<0.001	0.00019 (J)	0.00029 (J)
9/21/2021	<0.001			<0.001
9/22/2021		0.00027 (J)		
9/23/2021			<0.001	
2/2/2022				<0.001
2/3/2022	<0.001	<0.001	<0.001	
8/31/2022	<0.001	<0.001	<0.001	
2/1/2023		<0.001		
2/2/2023	<0.001		<0.001	
8/29/2023	<0.001			
9/6/2023		<0.001		
9/7/2023			<0.001	
1/23/2024	<0.001			
1/24/2024		<0.001		
1/25/2024			<0.001	0.000616 (J)
8/20/2024				<0.001
8/21/2024	<0.001	<0.001	<0.001	
Mean	0.0006214	0.0009088	0.0008988	0.0007812
Std. Dev.	0.0004166	0.0002581	0.0002864	0.000321
Upper Lim.	0.001	0.001	0.001	0.001
Lower Lim.	0.0002	0.00027	0.00019	0.00029

ND substitution: RL or RL/2 if <15% NDs.

Confidence Interval

Constituent: Chromium (mg/L) Analysis Run 12/13/2024 1:56 PM View: Appendix II & IV - Confidence Intervals
Grumman Road Landfill Client: Southern Company Data: Grumman Road Landfill

	GWB-4R	GWB-5R	GWB-6R	GWC-1	GWC-11
1/17/2016				<0.01	
1/18/2016	0.014	<0.01	0.0011 (J)		
1/19/2016					<0.01
7/26/2016					0.0005 (J)
7/27/2016		0.0006 (J)		0.0016 (J)	
7/28/2016			0.001 (J)		
7/29/2016	0.0077 (J)				
8/30/2016		<0.01	0.0013 (J)	0.0015 (J)	
8/31/2016					0.001 (J)
9/1/2016	0.015				
10/25/2016				0.0018 (J)	
10/26/2016	0.0106	<0.01	0.0014 (J)		<0.01
1/3/2017		0.001 (J)			
1/4/2017				0.0021 (J)	<0.01
1/5/2017			0.002 (J)		
1/6/2017	0.0098 (J)				
4/4/2017	0.0101			0.002 (J)	
4/6/2017		0.0013 (J)	0.0034 (J)		0.0007 (J)
7/11/2017					0.0006 (J)
7/12/2017	0.0096 (J)	0.0011 (J)	0.0024 (J)	0.0021 (J)	
10/3/2017		0.0012 (J)	0.0022 (J)	0.0014 (J)	0.0007 (J)
10/4/2017	0.0097 (J)				
1/9/2018			0.0019 (J)		
1/10/2018		0.0016 (J)		0.0017 (J)	
1/11/2018	0.0109				0.0098 (J)
7/10/2018		0.0055 (J)	0.0023 (J)	0.0021 (J)	
7/11/2018	0.0055 (J)				<0.01
1/16/2019	0.0024 (J)	<0.01	0.018 (J)	0.0021 (J)	
1/17/2019					<0.01
3/25/2019	0.002 (J)				
3/26/2019		0.072	0.017 (J)	0.0018 (J)	
3/27/2019					<0.01
8/27/2019	0.0027 (J)		0.0097 (J)	0.0062 (J)	0.00092 (J)
8/28/2019		0.0071 (J)			
10/8/2019					0.00091 (J)
10/9/2019	0.002 (J)	0.012 (J)	0.011 (J)	0.0019 (J)	
4/7/2020	0.0028 (J)	0.0022 (J)	0.0094 (J)	0.0015 (J)	0.00094 (J)
8/18/2020					0.0015 (J)
8/19/2020	0.0022 (J)	0.0012 (J)	0.0037 (J)	0.0028 (J)	
9/28/2020				0.0024 (J)	
9/29/2020					0.0011 (J)
9/30/2020		0.0018 (J)	0.0045 (J)		
10/1/2020	0.002 (J)				
3/10/2021	0.003 (J)	0.001 (J)	0.006	0.0023 (J)	0.0013 (J)
9/21/2021	0.0018 (J)	<0.01	0.0035 (J)		<0.01
9/23/2021				0.0023 (J)	
2/2/2022	0.003 (J)		0.0033 (J)		
2/3/2022		0.0014 (J)		0.0019 (J)	0.0011 (J)
8/30/2022	<0.01	<0.01	0.00356 (J)		
8/31/2022					<0.01
9/1/2022				<0.01	
2/1/2023		0.00655 (J)	0.00365 (J)		<0.01

ND substitution: RL or RL/2 if <15% NDs.

Confidence Interval

Constituent: Chromium (mg/L) Analysis Run 12/13/2024 1:56 PM View: Appendix II & IV - Confidence Intervals

Grumman Road Landfill Client: Southern Company Data: Grumman Road Landfill

	GWB-4R	GWB-5R	GWB-6R	GWC-1	GWC-11
2/2/2023	0.00502 (J)			<0.01	
8/29/2023	0.00389 (J)	<0.01	0.00349 (J)	0.00337 (J)	
9/6/2023					<0.01
1/23/2024			0.00402 (J)	<0.01	
1/24/2024					<0.01
2/7/2024	0.00352 (J)				
2/8/2024		0.0147			
8/20/2024	0.00544 (J)		0.00339 (J)	<0.01	
8/21/2024		0.00542 (J)			<0.01
Mean	0.005987	0.008307	0.004928	0.003795	0.005643
Std. Dev.	0.004063	0.01398	0.004605	0.003299	0.004617
Upper Lim.	0.007388	0.004358	0.005855	0.00337	0.01
Lower Lim.	0.003653	0.001357	0.002529	0.0018	0.00094

ND substitution: RL or RL/2 if <15% NDs.

Confidence Interval

Constituent: Chromium (mg/L) Analysis Run 12/13/2024 1:56 PM View: Appendix II & IV - Confidence Intervals

Grumman Road Landfill Client: Southern Company Data: Grumman Road Landfill

	GWC-12	GWC-13	GWC-14	GWC-15	GWC-16
1/17/2016			0.0012 (J)	<0.01	<0.01
1/18/2016	<0.01	<0.01			
4/26/2016			<0.01		<0.01
7/26/2016		<0.01			
7/27/2016	0.0014 (J)		0.0008 (J)	0.0007 (J)	
7/28/2016					0.0006 (J)
8/31/2016	0.0012 (J)	0.0011 (J)			
9/1/2016			0.0015 (J)	0.0011 (J)	0.0011 (J)
10/25/2016			<0.01	<0.01	<0.01
10/26/2016	0.0012 (J)	<0.01			
1/4/2017	0.0012 (J)				<0.01
1/5/2017		<0.01	0.001 (J)	<0.01	
4/3/2017				0.0015 (J)	
4/4/2017			0.001 (J)		
4/5/2017	0.0013 (J)				0.001 (J)
4/6/2017		0.0011 (J)			
7/10/2017	0.0014 (J)				
7/11/2017			0.0008 (J)	0.0013 (J)	
7/12/2017		0.0007 (J)			0.0011 (J)
10/2/2017			0.0009 (J)	0.0013 (J)	
10/3/2017					0.0009 (J)
10/4/2017	0.0011 (J)	0.0008 (J)			
1/9/2018			0.0006 (J)	0.0012 (J)	
1/10/2018		0.0007 (J)			0.0007 (J)
1/11/2018	0.001 (J)				
7/9/2018			<0.01		
7/10/2018				<0.01	<0.01
7/11/2018	<0.01	0.0019 (J)			
1/16/2019		<0.01	<0.01		
1/17/2019	0.0028 (J)			<0.01	0.01 (J)
3/26/2019		<0.01	<0.01	<0.01	<0.01
3/27/2019	<0.01				
8/27/2019	0.00085 (J)	<0.01	0.001 (J)	0.0016 (J)	
8/28/2019					0.0011 (J)
10/8/2019		<0.01	0.00053 (J)	0.0017 (J)	0.00099 (J)
10/9/2019	0.00081 (J)				
4/7/2020	0.00082 (J)		0.00074 (J)	0.0014 (J)	<0.01
4/8/2020		0.00058 (J)			
8/17/2020	0.001 (J)	0.00077 (J)			
8/18/2020			0.00059 (J)	0.0018 (J)	0.0012 (J)
9/28/2020		0.00062 (J)			
9/29/2020	0.00085 (J)		<0.01		
9/30/2020				0.0016 (J)	0.00098 (J)
3/10/2021	0.00091 (J)				
3/12/2021				0.0031 (J)	
3/15/2021		<0.01			
3/16/2021			<0.01		0.0012 (J)
9/21/2021	<0.01	<0.01			
9/22/2021			<0.01		0.0018 (J)
9/23/2021				0.0013 (J)	
2/1/2022					<0.01
2/2/2022			<0.01		

ND substitution: RL or RL/2 if <15% NDs.

Confidence Interval

Constituent: Chromium (mg/L) Analysis Run 12/13/2024 1:56 PM View: Appendix II & IV - Confidence Intervals

Grumman Road Landfill Client: Southern Company Data: Grumman Road Landfill

	GWC-12	GWC-13	GWC-14	GWC-15	GWC-16
2/3/2022	0.0018 (J)	<0.01		0.0016 (J)	
8/30/2022	<0.01		<0.01		
8/31/2022		<0.01		<0.01	
9/1/2022					<0.01
2/1/2023	<0.01	<0.01			<0.01
2/2/2023			<0.01	<0.01	
8/29/2023		<0.01			
9/6/2023	<0.01		<0.01		<0.01
9/7/2023				<0.01	
1/24/2024				<0.01	
1/25/2024	<0.01	<0.01	<0.01		<0.01
8/21/2024	<0.01	<0.01	<0.01	<0.01	<0.01
Mean	0.004386	0.006731	0.005795	0.005248	0.005872
Std. Dev.	0.004316	0.004455	0.004636	0.004317	0.004551
Upper Lim.	0.01	0.01	0.01	0.01	0.01
Lower Lim.	0.001	0.0008	0.0009	0.0014	0.0011

ND substitution: RL or RL/2 if <15% NDs.

Confidence Interval

Constituent: Chromium (mg/L) Analysis Run 12/13/2024 1:56 PM View: Appendix II & IV - Confidence Intervals
Grumman Road Landfill Client: Southern Company Data: Grumman Road Landfill

	GWC-17	GWC-2	GWC-20	GWC-21	GWC-22
1/17/2016		<0.01	<0.01	<0.01	
1/18/2016	<0.01				<0.01
7/27/2016		0.0008 (J)			
7/28/2016			0.0007 (J)	0.0005 (J)	
7/29/2016	0.0009 (J)				0.0007 (J)
8/31/2016		<0.01			<0.01
9/1/2016	0.0011 (J)		<0.01	<0.01	
10/25/2016			<0.01	<0.01	
10/26/2016	<0.01	0.001 (J)			<0.01
1/4/2017			<0.01	<0.01	<0.01
1/5/2017	0.0012 (J)	<0.01			
4/4/2017		0.0008 (J)	0.0011 (J)	0.0008 (J)	
4/5/2017	0.0015 (J)				
4/6/2017					0.0006 (J)
7/11/2017			0.0009 (J)		0.0005 (J)
7/13/2017	0.0012 (J)	0.0006 (J)		0.0006 (J)	
10/2/2017			0.0009 (J)		
10/3/2017		<0.01		0.0005 (J)	
10/4/2017	0.0055 (J)				0.0006 (J)
1/9/2018				0.0007 (J)	
1/10/2018		<0.01	0.0008 (J)		
1/11/2018	0.0009 (J)				<0.01
7/9/2018			<0.01		
7/10/2018		<0.01		<0.01	
7/11/2018	<0.01				<0.01
1/16/2019	<0.01				
1/17/2019				0.01	
1/18/2019					<0.01
1/21/2019		<0.01	<0.01		
3/25/2019			<0.01		
3/26/2019	<0.01			<0.01	
3/27/2019					<0.01
7/30/2019		0.00065 (J)			
8/27/2019		<0.01			0.00057 (J)
8/28/2019	0.0013 (J)		0.00089 (J)	0.00087 (J)	
10/8/2019				0.00065 (J)	
10/9/2019	0.00081 (J)	0.00049 (J)	0.0011 (J)		0.00072 (J)
4/7/2020				<0.01	0.00049 (J)
4/8/2020	0.00073 (J)	0.00069 (J)	0.001 (J)		
8/18/2020	0.0011 (J)	<0.01	0.0011 (J)	0.0012 (J)	0.00056 (J)
9/29/2020		<0.01			
9/30/2020	0.00096 (J)		0.0013 (J)	0.00067 (J)	0.00064 (J)
3/10/2021					<0.01
3/11/2021	0.0009 (J)				
3/12/2021			0.0014 (J)		
3/15/2021		0.0011 (J)			
3/16/2021				0.00075 (J)	
9/21/2021					<0.01
9/22/2021	<0.01	<0.01	0.0013 (J)	<0.01	
2/1/2022	0.0014 (J)		0.0036 (J)	<0.01	
2/2/2022		<0.01			
2/3/2022					<0.01

ND substitution: RL or RL/2 if <15% NDs.

Confidence Interval

Constituent: Chromium (mg/L) Analysis Run 12/13/2024 1:56 PM View: Appendix II & IV - Confidence Intervals

Grumman Road Landfill Client: Southern Company Data: Grumman Road Landfill

	GWC-17	GWC-2	GWC-20	GWC-21	GWC-22
8/30/2022			<0.01	<0.01	
8/31/2022	<0.01				<0.01
9/1/2022		<0.01			
2/1/2023	<0.01		0.00503 (J)		
2/2/2023		<0.01		<0.01	<0.01
8/29/2023	<0.01	<0.01			<0.01
9/6/2023			<0.01	<0.01	
1/23/2024					<0.01
1/24/2024	<0.01		<0.01		
1/25/2024		<0.01		<0.01	
8/21/2024	<0.01	<0.01	<0.01		<0.01
8/22/2024				<0.01	
Mean	0.00518	0.007045	0.005245	0.00629	0.006615
Std. Dev.	0.00445	0.004398	0.004397	0.00464	0.004606
Upper Lim.	0.01	0.01	0.01	0.01	0.01
Lower Lim.	0.00096	0.001	0.001	0.00075	0.00064

ND substitution: RL or RL/2 if <15% NDs.

Confidence Interval

Constituent: Chromium (mg/L) Analysis Run 12/13/2024 1:56 PM View: Appendix II & IV - Confidence Intervals
Grumman Road Landfill Client: Southern Company Data: Grumman Road Landfill

	GWC-9	MW-24D	MW-25D	MW-26D
1/18/2016	<0.01			
7/28/2016	0.0011 (J)			
8/31/2016	0.0024 (J)			
10/27/2016	<0.01			
1/6/2017	<0.01			
4/6/2017	0.0019 (J)			
7/12/2017	0.0011 (J)			
10/4/2017	0.0011 (J)			
1/11/2018	0.001 (J)			
7/11/2018	<0.01			
1/18/2019	<0.01			
3/27/2019	<0.01			
8/28/2019	0.00089 (J)			
10/9/2019	0.0009 (J)			
4/8/2020	0.0015 (J)			
8/19/2020	0.0013 (J)			
10/1/2020	0.0012 (J)			
3/10/2021	0.0011 (J)			
3/11/2021		0.00069 (J)	0.0016 (J)	0.002 (J)
9/21/2021				<0.01
9/22/2021	<0.01	<0.01		
9/23/2021			<0.01	
2/1/2022		<0.01		
2/2/2022	0.0012 (J)			<0.01
2/3/2022			<0.01	
8/31/2022			<0.01	
9/1/2022	<0.01	<0.01		
2/1/2023	<0.01			
2/2/2023		<0.01	<0.01	
8/29/2023	<0.01			
9/6/2023		<0.01		
9/7/2023			<0.01	
1/24/2024	<0.01			
1/25/2024		<0.01	<0.01	<0.01
8/20/2024				<0.01
8/21/2024	<0.01	<0.01	<0.01	
Mean	0.005468	0.008836	0.00895	0.0084
Std. Dev.	0.004455	0.003292	0.00297	0.003578
Upper Lim.	0.01	0.01	0.01	0.01
Lower Lim.	0.0011	0.00069	0.0016	0.002

ND substitution: RL or RL/2 if <15% NDs.

Confidence Interval

Constituent: Cobalt (mg/L) Analysis Run 12/13/2024 1:56 PM View: Appendix II & IV - Confidence Intervals

Grumman Road Landfill Client: Southern Company Data: Grumman Road Landfill

	GWB-4R	GWB-5R	GWB-6R	GWC-11	GWC-12
8/30/2016		<0.005	<0.01		
8/31/2016				<0.001	0.0018 (J)
9/1/2016	0.0024 (J)				
10/26/2016	0.0011 (J)	<0.005	<0.01	<0.001	0.0016 (J)
1/3/2017		<0.005			
1/4/2017				<0.001	0.0014 (J)
1/5/2017			<0.01		
1/6/2017	0.001 (J)				
4/4/2017	0.001 (J)				
4/5/2017					0.0013 (J)
4/6/2017		<0.005	<0.01	<0.001	
7/10/2017					0.0013 (J)
7/11/2017				<0.001	
7/12/2017	0.0008 (J)	<0.005	<0.01		
10/3/2017		<0.005	<0.01	<0.001	
10/4/2017	0.001 (J)				0.0011 (J)
1/9/2018			<0.01		
1/10/2018		0.0004 (J)			
1/11/2018	0.0008 (J)			0.0003 (J)	0.0011 (J)
7/10/2018		0.002 (J)	<0.01		
7/11/2018	<0.005			<0.001	0.00096 (J)
8/27/2019	0.0011 (J)		0.00038 (J)	<0.001	0.0009 (J)
8/28/2019		0.0024 (J)			
10/8/2019				<0.001	
10/9/2019	0.0015 (J)	0.0037 (J)	<0.025		0.00094 (J)
4/7/2020	0.0009 (J)	0.00053 (J)	<0.025	<0.001	0.00077 (J)
8/17/2020					0.0006 (J)
8/18/2020				0.0004 (J)	
8/19/2020	0.00072 (J)	<0.005	<0.005		
9/29/2020				0.00055 (J)	0.00057 (J)
9/30/2020		0.00056 (J)	<0.005		
10/1/2020	0.0005 (J)				
3/10/2021	0.00069 (J)	0.0057	<0.005	0.00082 (J)	0.00071 (J)
9/21/2021	<0.005	0.019	0.0049 (J)	<0.001	0.00065 (J)
2/2/2022	0.0027 (J)		0.07		
2/3/2022		0.019		<0.001	0.00072 (J)
8/30/2022	0.00198	0.00401	0.0476		0.000786 (J)
8/31/2022				0.000646 (J)	
2/1/2023		0.00291	0.0228	0.00118	0.000753 (J)
2/2/2023	0.00937				
8/29/2023	0.0122	0.00139	0.0709		
9/6/2023				0.000794 (J)	0.000732 (J)
1/23/2024			0.0222		
1/24/2024				0.000522 (J)	
1/25/2024					0.000751 (J)
2/7/2024	0.0126				
2/8/2024		0.00521			
8/20/2024	0.00204		0.0368		
8/21/2024		0.00156		<0.001	0.000768 (J)
Mean	0.002829	0.004922	0.03471	0.0008672	0.0009624
Std. Dev.	0.003688	0.005005	0.02659	0.0002391	0.0003408
Upper Lim.	0.0025	0.003751	0.0629	0.001	0.00115

ND substitution: RL or RL/2 if <15% NDs.

Confidence Interval

Constituent: Cobalt (mg/L) Analysis Run 12/13/2024 1:56 PM View: Appendix II & IV - Confidence Intervals
Grumman Road Landfill Client: Southern Company Data: Grumman Road Landfill

	GWB-4R	GWB-5R	GWB-6R	GWC-11	GWC-12
Lower Lim.	0.0008	0.00121	0.006526	0.000646	0.0007744

Confidence Interval

Constituent: Cobalt (mg/L) Analysis Run 12/13/2024 1:56 PM View: Appendix II & IV - Confidence Intervals

Grumman Road Landfill Client: Southern Company Data: Grumman Road Landfill

	GWC-14	GWC-17	GWC-2	GWC-22	GWC-9
8/31/2016			<0.001	0.001 (J)	0.0021 (J)
9/1/2016	<0.001	0.0046 (J)			
10/25/2016	<0.001				
10/26/2016		0.0046 (J)	0.0011 (J)	0.0009 (J)	
10/27/2016					0.0017 (J)
1/4/2017				0.0007 (J)	
1/5/2017	<0.001	0.0062 (J)	<0.001		
1/6/2017					0.0017 (J)
4/4/2017	<0.001		<0.001		
4/5/2017		0.007 (J)			
4/6/2017				<0.001	0.0017 (J)
7/11/2017	0.0003 (J)			<0.001	
7/12/2017					0.0016 (J)
7/13/2017		0.0077 (J)	0.0003 (J)		
10/2/2017	<0.001				
10/3/2017			0.0003 (J)		
10/4/2017		0.0073 (J)		0.0007 (J)	0.0015 (J)
1/9/2018	<0.001				
1/10/2018			<0.001		
1/11/2018		0.0061 (J)		<0.001	0.0017 (J)
7/9/2018	<0.001				
7/10/2018			<0.001		
7/11/2018		0.0064 (J)		<0.001	0.0017 (J)
7/30/2019			0.00032 (J)		
8/27/2019	<0.001		<0.001	0.00077 (J)	
8/28/2019		0.0023 (J)			0.00099 (J)
10/8/2019	<0.001				
10/9/2019		0.0024 (J)	<0.001	<0.001	0.00099 (J)
4/7/2020	<0.001			0.00037 (J)	
4/8/2020		0.0024 (J)	0.00036 (J)		0.001 (J)
8/18/2020	<0.001	0.0025 (J)	<0.001	<0.001	
8/19/2020					0.0011 (J)
9/29/2020	<0.001		<0.001		
9/30/2020		0.0018 (J)		<0.001	
10/1/2020					0.00099 (J)
3/10/2021				<0.001	0.00096 (J)
3/11/2021		0.0019 (J)			
3/15/2021			<0.001		
3/16/2021	<0.001				
9/21/2021				<0.001	
9/22/2021	<0.001	0.0028 (J)	<0.001		0.00082 (J)
2/1/2022		0.0036 (J)			
2/2/2022	<0.001		<0.001		0.00096 (J)
2/3/2022				<0.001	
8/30/2022	<0.001				
8/31/2022		0.00358		<0.001	
9/1/2022			<0.001		0.00093 (J)
2/1/2023		0.00265			0.00083 (J)
2/2/2023	<0.001		<0.001	<0.001	
8/29/2023		0.00268	<0.001	0.000817 (J)	0.000744 (J)
9/6/2023	<0.001				
1/23/2024				<0.001	

ND substitution: RL or RL/2 if <15% NDs.

Confidence Interval

Constituent: Cobalt (mg/L) Analysis Run 12/13/2024 1:56 PM View: Appendix II & IV - Confidence Intervals
Grumman Road Landfill Client: Southern Company Data: Grumman Road Landfill

	GWC-14	GWC-17	GWC-2	GWC-22	GWC-9
1/24/2024		0.00264			0.000899 (J)
1/25/2024	<0.001		<0.001		
8/21/2024	<0.001	0.00256	<0.001	<0.001	0.00096 (J)
Mean	0.0009667	0.003986	0.0008809	0.000917	0.001232
Std. Dev.	0.0001528	0.001976	0.0002717	0.0001626	0.000406
Upper Lim.	0.001	0.004861	0.001	0.001	0.0017
Lower Lim.	0.0003	0.002816	0.00036	0.000817	0.00093

ND substitution: RL or RL/2 if <15% NDs.

Confidence Interval

Constituent: Combined Radium 226 + 228 (pCi/L) Analysis Run 12/13/2024 1:56 PM View: Appendix II & IV - Confidence Intervals

Grumman Road Landfill Client: Southern Company Data: Grumman Road Landfill

	GWB-4R	GWB-5R	GWB-6R	GWC-1	GWC-11
8/30/2016		1.81	2.19	2.36	
8/31/2016					2.2
9/1/2016	5.27				
10/25/2016				2.02	
10/26/2016	2.32	2.03	2.67		1.96
1/3/2017		1.85			
1/4/2017				2.1	1.88
1/5/2017			3.74		
1/6/2017	5.1				
4/4/2017	5			1.39 (U)	
4/6/2017		2.66	2.36		
4/8/2017					0.893 (U)
7/11/2017					1.89
7/12/2017	2.69	2.1	1.54	1.63	
10/3/2017		2	3.63	1.84	4.73
10/4/2017	4.82				
1/9/2018			2.07		
1/10/2018		2.55		2.11	
1/11/2018	4.48				7.49
7/10/2018		3.14	1.63	1.29	
7/11/2018	2.69				5.88
8/27/2019	2.97		4.63	2.41	5.09
8/28/2019		3.74			
10/8/2019					6.39
10/9/2019	2.17	7.23	5.45	3.13	
4/7/2020	2.44	3.57	6.25	1.97	7.87
8/18/2020					6.76
8/19/2020	3.1	2.49	4.53	1.91	
9/28/2020				1.29	
9/29/2020					8.3
9/30/2020		4.45	6.39		
10/1/2020	2.6				
3/10/2021	2.11	4.67	4.61	1.7	7.55
9/21/2021	2.45	3.1	5.07		4.35
9/23/2021				1.48	
2/2/2022	3.17		4.79		
2/3/2022		2.65		1	4.04
8/30/2022	5.57	3.36	3.2		
8/31/2022					6.34
9/1/2022				0.911 (U)	
2/1/2023		3.28	4.93		5.87
2/2/2023	5.79			3.54	
8/29/2023	3.86	1.63	8.19	2.65	
9/6/2023					9.23
1/23/2024			8.24	2.9	
1/24/2024					7.06
2/7/2024	5.48				
2/8/2024		6.35			
8/20/2024	7.26		6.12	0.492 (U)	
8/21/2024		2.85			5.48
Mean	3.873	3.215	4.392	1.911	5.298
Std. Dev.	1.507	1.453	1.966	0.7552	2.403

Confidence Interval

Constituent: Combined Radium 226 + 228 (pCi/L) Analysis Run 12/13/2024 1:56 PM View: Appendix II & IV - Confidence Intervals

Grumman Road Landfill Client: Southern Company Data: Grumman Road Landfill

	GWB-4R	GWB-5R	GWB-6R	GWC-1	GWC-11
Upper Lim.	4.705	3.846	5.477	2.327	6.623
Lower Lim.	3.042	2.404	3.307	1.494	3.972

Confidence Interval

Constituent: Combined Radium 226 + 228 (pCi/L) Analysis Run 12/13/2024 1:56 PM View: Appendix II & IV - Confidence Intervals

Grumman Road Landfill Client: Southern Company Data: Grumman Road Landfill

	GWC-12	GWC-13	GWC-14	GWC-15	GWC-16
8/31/2016	2.61	1.23			
9/1/2016			1.28	2.45	1.99
10/25/2016			1.54	1.04 (U)	1.98
10/26/2016	3.28	0.641 (U)			
1/4/2017	3.77				1.72
1/5/2017		0.657 (U)	0.715 (U)	1.36	
4/3/2017				0.697 (U)	
4/4/2017			0.699 (U)		
4/5/2017	3.25				1.72
4/6/2017		0.439 (U)			
7/10/2017	1.55				
7/11/2017			1.12	0.754 (U)	
7/12/2017		0.414 (U)			1.11
10/2/2017			0.855 (U)	1.52	
10/3/2017					2.13
10/4/2017	1.68	1.33			
1/9/2018			0.861 (U)	1.17	
1/10/2018		1.21			1.74
1/11/2018	2.94				
7/9/2018			0.693 (U)		
7/10/2018				1.26	1.97
7/11/2018	2.03	1.4 (U)			
8/27/2019	2.09	1.27	1.32	1.75	
8/28/2019					2.04
10/8/2019		1.62	1.41	1.52	1.89
10/9/2019	3.11				
4/7/2020	2.18		1.41	1.82	4.17
4/8/2020		1.08 (U)			
8/17/2020	2.25	1.42			
8/18/2020			0.731 (U)	1.84	4.24
9/28/2020		1.28			
9/29/2020	0.845 (U)		0.331 (U)		
9/30/2020				2.14	2.47
3/10/2021	1.77				
3/12/2021				0.607 (U)	
3/15/2021		0.769 (U)			
3/16/2021			0.0831 (U)		2.15
9/21/2021	1.24 (U)	2.09			
9/22/2021			1.94 (U)		3.06
9/23/2021				1.64	
2/1/2022					2.73
2/2/2022			0.881 (U)		
2/3/2022	0.957	1.18		0.58 (U)	
8/30/2022	3.37		2.62		
8/31/2022		1.9		2.88	
9/1/2022					1.64 (U)
2/1/2023	2.07	2.85			3.17
2/2/2023			1.31 (U)	3.14	
8/29/2023		2.36			
9/6/2023	2.02		0.609		3.42
9/7/2023				2.28	
1/24/2024				0.775 (U)	

Confidence Interval

Constituent: Combined Radium 226 + 228 (pCi/L) Analysis Run 12/13/2024 1:56 PM View: Appendix II & IV - Confidence Intervals

Grumman Road Landfill Client: Southern Company Data: Grumman Road Landfill

	GWC-12	GWC-13	GWC-14	GWC-15	GWC-16
1/25/2024	0.675 (U)	2.37	0.586 (U)		4
8/21/2024	2.54	1.23 (U)	0.715 (U)	2.48	3.92
Mean	2.201	1.369	1.034	1.605	2.536
Std. Dev.	0.8764	0.6489	0.5696	0.7521	0.9444
Upper Lim.	2.685	1.727	1.348	2.02	3.057
Lower Lim.	1.718	1.011	0.7195	1.19	2.015

Confidence Interval

Constituent: Combined Radium 226 + 228 (pCi/L) Analysis Run 12/13/2024 1:56 PM View: Appendix II & IV - Confidence Intervals

Grumman Road Landfill Client: Southern Company Data: Grumman Road Landfill

	GWC-17	GWC-2	GWC-20	GWC-21	GWC-22
8/31/2016		1.01			5.96
9/1/2016	5.19		2.21	1.05	
10/25/2016			1.51 (U)	1.2	
10/26/2016	4.25	0.725 (U)			7.42
1/4/2017			2.56	2.11	6.07
1/5/2017	3.55	0.735 (U)			
4/4/2017		0.87 (U)	1.77	2.02	
4/5/2017	4.39				
4/6/2017					3
7/11/2017			2.76		4.2
7/13/2017	2.44	0.42 (U)		0.576 (U)	
10/2/2017			4.15		
10/3/2017		0.995 (U)		0.86	
10/4/2017	4.95				7.16
1/9/2018				1.43	
1/10/2018		0.698 (U)	1.96		
1/11/2018	3.53				3.57
7/9/2018			1.11		
7/10/2018		1.01		1.63	
7/11/2018	3.13				7.57
8/27/2019		0.787 (U)			7.04
8/28/2019	2.01		1.13 (U)	1.4 (U)	
10/8/2019				1.88	
10/9/2019	2.91	0.22 (U)	2.28		3.68
4/7/2020				1.8	7.66
4/8/2020	2.79	1.13 (U)	4.19		
8/18/2020	3.11	1.09 (U)	6.86	3.27	7.65
9/29/2020		1 (U)			
9/30/2020	3.09		5.62	3.83	2.79
3/10/2021					2.53
3/11/2021	2.77				
3/12/2021			5.17		
3/15/2021		0.804 (U)			
3/16/2021				2.88	
9/21/2021					1.25 (U)
9/22/2021	2.36	0.769 (U)	6.84	0.959 (U)	
2/1/2022	2.51		5.11	2.51	
2/2/2022		0.854 (U)			
2/3/2022					1.4
8/30/2022			4.95	2.56	
8/31/2022	2.72				3.07
9/1/2022		2.09			
2/1/2023	2.83		5.77		
2/2/2023		1.11 (U)		3.73	4.13
8/29/2023	2.77	2.49			11.3
9/6/2023			2.12	4.2	
1/23/2024					6.54
1/24/2024	0.437 (U)		1.78		
1/25/2024		1.99		4.12	
8/21/2024	2.46	2.07	4.17		2.35
8/22/2024				4.52	
Mean	3.057	1.089	3.525	2.311	5.064

Confidence Interval

Constituent: Combined Radium 226 + 228 (pCi/L) Analysis Run 12/13/2024 1:56 PM View: Appendix II & IV - Confidence Intervals
Grumman Road Landfill Client: Southern Company Data: Grumman Road Landfill

	GWC-17	GWC-2	GWC-20	GWC-21	GWC-22
Std. Dev.	1.042	0.5815	1.884	1.221	2.621
Upper Lim.	3.632	1.34	4.564	2.985	6.51
Lower Lim.	2.482	0.7452	2.485	1.638	3.618

Confidence Interval

Constituent: Combined Radium 226 + 228 (pCi/L) Analysis Run 12/13/2024 1:56 PM View: Appendix II & IV - Confidence Intervals

Grumman Road Landfill Client: Southern Company Data: Grumman Road Landfill

	GWC-9	MW-23D	MW-24D	MW-25D	MW-26D
8/31/2016	3.3				
10/27/2016	2.7				
1/6/2017	4.45				
4/6/2017	3.1				
7/12/2017	2.73				
10/4/2017	8.16				
1/11/2018	2.31				
7/11/2018	3.31				
8/28/2019	1.91				
10/9/2019	3.09				
4/8/2020	1.92				
8/19/2020	2.34				
10/1/2020	3.3				
3/10/2021	2.08				
3/11/2021		1.55	1.29	0.353 (U)	0.783 (U)
9/21/2021					0.815 (U)
9/22/2021	2.08	1.4	0.982 (U)		
9/23/2021				1.15	
2/1/2022			0.36 (U)		
2/2/2022	0.967 (U)				0.249 (U)
2/3/2022		1.21		0.278 (U)	
8/31/2022		1.79		0.645 (U)	
9/1/2022	2.35		3.54		
2/1/2023	4.17	2.44			
2/2/2023			2.52 (U)	2.98	
8/29/2023	1.44				
9/6/2023		3.47	1.73		
9/7/2023				1.75	
1/24/2024	1.36 (U)	1.3 (U)			
1/25/2024			1.68	1.04 (U)	1.64 (U)
8/20/2024					1.84
8/21/2024	2.54	0.517 (U)	3.94	1.22 (U)	
Mean	2.838	1.71	2.005	1.177	1.065
Std. Dev.	1.498	0.8944	1.243	0.8759	0.6594
Upper Lim.	3.449	2.658	3.322	2.105	2.17
Lower Lim.	2.028	0.7616	0.688	0.2486	-0.03951

Confidence Interval

Constituent: Fluoride (mg/L) Analysis Run 12/13/2024 1:56 PM View: Appendix II & IV - Confidence Intervals

Grumman Road Landfill Client: Southern Company Data: Grumman Road Landfill

	GWB-4R	GWB-5R	GWB-6R	GWC-1	GWC-12
8/30/2016		0.04 (J)	0.09 (J)	0.22 (J)	
8/31/2016					0.7
9/1/2016	<0.1				
10/25/2016				<0.1	
10/26/2016	0.05 (J)	0.05 (J)	0.24 (J)		0.91
1/3/2017		0.08 (J)			
1/4/2017				0.18 (J)	0.51
1/5/2017			0.11 (J)		
1/6/2017	0.08 (J)				
4/4/2017	<0.1			<0.1	
4/5/2017					0.71
4/6/2017		0.006 (J)	0.3		
7/10/2017					0.88
7/12/2017	0.38	0.05 (J)	0.15 (J)	0.04 (J)	
10/3/2017		0.11 (J)	0.11 (J)	<0.1	
10/4/2017	<0.1				0.37
1/9/2018			<0.1		
1/10/2018		<0.1		<0.1	
1/11/2018	<0.1				1.4
7/10/2018		0.2 (J)	<0.1	<0.1	
7/11/2018	<0.1				0.62
1/16/2019	1.2	<0.1	0.053 (J)	<0.1	
1/17/2019					1.2
3/25/2019	0.064 (J)				
3/26/2019		<0.1	0.046 (J)	0.051 (J)	
3/27/2019					0.036 (J)
8/27/2019	0.031 (J)		0.13 (J)	<0.1	0.3
8/28/2019		0.097 (J)			
10/9/2019	<0.1	<0.1	<0.1	<0.1	<0.3
4/7/2020	<0.1	<0.1	<0.1	<0.1	0.27 (J)
8/17/2020					0.19
8/19/2020	0.17	<0.1	<0.1	<0.1	
9/28/2020				<0.1	
9/29/2020					0.16
9/30/2020		<0.1	<0.1		
10/1/2020	<0.1				
3/10/2021	<0.1	<0.1	<0.1	<0.1	0.14
9/21/2021	<0.1	<0.1	<0.1		0.31
9/23/2021				<0.1	
2/2/2022	<0.1		<0.1		
2/3/2022		0.081 (J)		<0.1	0.36
8/30/2022	<0.1	0.0428 (J)	<0.1		0.273
9/1/2022				<0.1	
2/1/2023		0.0546 (J)	<0.1		0.231
2/2/2023	<0.1			<0.1	
8/29/2023	<0.1	<0.1	0.0523 (J)	0.0596 (J)	
9/6/2023					0.238
1/23/2024			<0.1	<0.1	
1/24/2024		<0.1			
1/25/2024	<0.1				0.182
8/20/2024	<0.1		0.0768 (J)	<0.1	
8/21/2024		0.0435 (J)			0.194

ND substitution: RL or RL/2 if <15% NDs.

Confidence Interval

Constituent: Fluoride (mg/L) Analysis Run 12/13/2024 1:56 PM View: Appendix II & IV - Confidence Intervals
Grumman Road Landfill Client: Southern Company Data: Grumman Road Landfill

	GWB-4R	GWB-5R	GWB-6R	GWC-1	GWC-12
Mean	0.1554	0.085	0.1112	0.1022	0.4493
Std. Dev.	0.2366	0.03793	0.05574	0.03588	0.3621
Upper Lim.	0.17	0.1	0.11	0.18	0.5704
Lower Lim.	0.08	0.05	0.09	0.0596	0.2408

Confidence Interval

Constituent: Fluoride (mg/L) Analysis Run 12/13/2024 1:56 PM View: Appendix II & IV - Confidence Intervals

Grumman Road Landfill Client: Southern Company Data: Grumman Road Landfill

	GWC-13	GWC-14	GWC-15	GWC-16	GWC-17
8/31/2016	<0.1				
9/1/2016		0.25 (J)	<0.1	0.55	0.68
10/25/2016		0.43	0.5	0.36	
10/26/2016	0.55				0.68
1/4/2017				0.1 (J)	
1/5/2017	0.09 (J)	0.21 (J)	0.22 (J)		0.73
4/3/2017			<0.1		
4/4/2017		0.45			
4/5/2017				0.2 (J)	1.6
4/6/2017	<0.1				
7/11/2017		0.41	0.06 (J)		
7/12/2017	<0.1			0.04 (J)	
7/13/2017					1.7
10/2/2017		<0.1	<0.1		
10/3/2017				0.86	
10/4/2017	<0.1				1.8
1/9/2018		<0.1	<0.1		
1/10/2018	<0.1			<0.1	
1/11/2018					1.5
7/9/2018		<0.1			
7/10/2018			0.15 (J)	<0.1	
7/11/2018	<0.1				1.8
1/16/2019	<0.1	<0.1			1.4
1/17/2019			<0.1	<0.1	
3/26/2019	0.052 (J)	0.13 (J)	0.13 (J)	0.11 (J)	0.89
8/27/2019	<0.1	<0.1	<0.1		
8/28/2019				<0.1	0.61
10/8/2019	<0.1	<0.1	<0.1	<0.1	
10/9/2019					<0.3
4/7/2020		<0.1	<0.1	<0.1	
4/8/2020	<0.1				0.55
8/17/2020	<0.1				
8/18/2020		<0.1	<0.1	<0.1	0.51
9/28/2020	<0.1				
9/29/2020		<0.1			
9/30/2020			<0.1	<0.1	0.15
3/11/2021					0.42
3/12/2021			<0.1		
3/15/2021	<0.1				
3/16/2021		<0.1		<0.1	
9/21/2021	<0.1				
9/22/2021		<0.1		<0.1	0.79
9/23/2021			<0.1		
2/1/2022				<0.1	0.68
2/2/2022		<0.1			
2/3/2022	<0.1		<0.1		
8/30/2022		<0.1			
8/31/2022	0.051 (J)		<0.1		0.442
9/1/2022				0.0374 (J)	
2/1/2023	0.0423 (J)			0.0702 (J)	0.604
2/2/2023		<0.1	<0.1		
8/29/2023	<0.1				0.572

ND substitution: RL or RL/2 if <15% NDs.

Confidence Interval

Constituent: Fluoride (mg/L) Analysis Run 12/13/2024 1:56 PM View: Appendix II & IV - Confidence Intervals

Grumman Road Landfill Client: Southern Company Data: Grumman Road Landfill

	GWC-13	GWC-14	GWC-15	GWC-16	GWC-17
9/6/2023		<0.1		<0.1	
9/7/2023			<0.1		
1/24/2024			<0.1		0.416
1/25/2024	<0.1	<0.1		<0.1	
8/21/2024	0.0496 (J)	<0.1	<0.1	<0.1	0.642
Mean	0.1102	0.1557	0.1243	0.1621	0.8398
Std. Dev.	0.09788	0.1152	0.0868	0.188	0.5171
Upper Lim.	0.1	0.13	0.13	0.11	1.042
Lower Lim.	0.09	0.1	0.1	0.1	0.5318

ND substitution: RL or RL/2 if <15% NDs.

Confidence Interval

Constituent: Fluoride (mg/L) Analysis Run 12/13/2024 1:56 PM View: Appendix II & IV - Confidence Intervals

Grumman Road Landfill Client: Southern Company Data: Grumman Road Landfill

	GWC-2	GWC-20	GWC-21	GWC-22	GWC-9
8/31/2016	0.07 (J)			0.04 (J)	0.55
9/1/2016		<0.1	<0.1		
10/25/2016		<0.1	<0.1		
10/26/2016	0.62			0.12 (J)	
10/27/2016					0.26 (J)
1/4/2017		0.04 (J)	<0.1	0.06 (J)	
1/5/2017	0.17 (J)				
1/6/2017					0.25 (J)
4/4/2017	0.08 (J)	0.02 (J)	<0.1		
4/6/2017				<0.1	0.16 (J)
7/11/2017		0.14 (J)		0.03 (J)	
7/12/2017					0.2 (J)
7/13/2017	0.06 (J)		<0.1		
10/2/2017		<0.1			
10/3/2017	0.06 (J)		<0.1		
10/4/2017				0.12 (J)	0.22 (J)
1/9/2018			<0.1		
1/10/2018	<0.1	<0.1			
1/11/2018				<0.1	0.98
7/9/2018		<0.1			
7/10/2018	<0.1		<0.1		
7/11/2018				<0.1	0.14 (J)
1/17/2019			<0.1		
1/18/2019				<0.1	0.24 (J)
1/21/2019	<0.1	<0.1			
3/25/2019		0.043 (J)			
3/26/2019			0.071 (J)		
3/27/2019				<0.1	0.13 (J)
7/30/2019	0.083 (J)				
8/27/2019	<0.1			0.1	
8/28/2019		<0.1	<0.1		0.088 (J)
10/8/2019			<0.1		
10/9/2019	<0.1	<0.1		<0.1	0.068 (J)
4/7/2020			<0.1	<0.1	
4/8/2020	<0.1	<0.1			0.058 (J)
8/18/2020	<0.1	<0.1	<0.1	<0.1	
8/19/2020					0.092 (J)
9/29/2020	<0.1				
9/30/2020		<0.1	<0.1	<0.1	
10/1/2020					<0.1
3/10/2021				<0.1	0.066 (J)
3/12/2021		<0.1			
3/15/2021	<0.1				
3/16/2021			<0.1		
9/21/2021				<0.1	
9/22/2021	<0.1	<0.1	<0.1		0.13
2/1/2022		<0.1	<0.1		
2/2/2022	<0.1				<0.1
2/3/2022				<0.1	
8/30/2022		<0.1	<0.1		
8/31/2022				<0.1	
9/1/2022	<0.1				0.0783 (J)

ND substitution: RL or RL/2 if <15% NDs.

Confidence Interval

Constituent: Fluoride (mg/L) Analysis Run 12/13/2024 1:56 PM View: Appendix II & IV - Confidence Intervals

Grumman Road Landfill Client: Southern Company Data: Grumman Road Landfill

	GWC-2	GWC-20	GWC-21	GWC-22	GWC-9
2/1/2023		<0.1			0.0994 (J)
2/2/2023	<0.1		<0.1	<0.1	
8/29/2023	<0.1			0.0758 (J)	0.115
9/6/2023		<0.1	<0.1		
1/23/2024				<0.1	
1/24/2024		<0.1			0.0618 (J)
1/25/2024	0.0377 (J)		<0.1		
8/21/2024	0.0532 (J)	0.168		<0.1	0.134
8/22/2024			<0.1		
Mean	0.1145	0.09613	0.09874	0.0933	0.1835
Std. Dev.	0.1131	0.02949	0.006047	0.0218	0.2054
Upper Lim.	0.1	0.14	0.1	0.12	0.195
Lower Lim.	0.08	0.043	0.071	0.1	0.08871

ND substitution: RL or RL/2 if <15% NDs.

Confidence Interval

Constituent: Fluoride (mg/L) Analysis Run 12/13/2024 1:56 PM View: Appendix II & IV - Confidence Intervals

Grumman Road Landfill Client: Southern Company Data: Grumman Road Landfill

	MW-23D	MW-24D	MW-25D	MW-26D
1/20/2021			0.11	<0.1
1/21/2021	<0.1	<0.1		
3/11/2021	<0.1	<0.1	0.12	<0.1
9/21/2021				<0.1
9/22/2021	<0.1	<0.1		
9/23/2021			0.096 (J)	
2/1/2022		<0.1		
2/2/2022				<0.1
2/3/2022	<0.1		0.077 (J)	
8/31/2022	0.0791 (J)		0.187	
9/1/2022		<0.1		
2/1/2023	0.0586 (J)			
2/2/2023		<0.1	0.152	
9/6/2023	0.13	0.147		
9/7/2023			0.198	
1/24/2024	0.0432 (J)			
1/25/2024		<0.1	0.168	<0.1
8/20/2024				0.0444 (J)
8/21/2024	0.0361 (J)	0.037 (J)	0.216	
Mean	0.083	0.09822	0.1471	0.09073
Std. Dev.	0.03114	0.02773	0.04877	0.0227
Upper Lim.	0.09012	0.147	0.1942	0.1
Lower Lim.	0.03521	0.037	0.1	0.0444

ND substitution: RL or RL/2 if <15% NDs.

Confidence Interval

Constituent: Lead (mg/L) Analysis Run 12/13/2024 1:56 PM View: Appendix II & IV - Confidence Intervals

Grumman Road Landfill Client: Southern Company Data: Grumman Road Landfill

	GWB-4R	GWB-5R	GWB-6R	GWC-1	GWC-11
1/17/2016				<0.002	
1/18/2016	0.0055 (J)	<0.002	<0.002		
1/19/2016					<0.002
7/26/2016					0.0001 (J)
7/27/2016		<0.002		<0.002	
7/28/2016			<0.002		
7/29/2016	0.003 (J)				
8/30/2016		<0.002	<0.002	<0.002	
8/31/2016					0.0002 (J)
9/1/2016	0.0166 (O)				
10/25/2016				<0.002	
10/26/2016	0.0057	0.0002 (J)	<0.002		0.0001 (J)
1/3/2017		0.0001 (J)			
1/4/2017				<0.002	0.0002 (J)
1/5/2017			0.0003 (J)		
1/6/2017	0.0053				
4/4/2017	0.0092			<0.002	
4/6/2017		0.0003 (J)	0.0002 (J)		0.0003 (J)
7/11/2017					0.0002 (J)
7/12/2017	0.006	0.0002 (J)	0.0002 (J)	<0.002	
10/3/2017		0.0002 (J)	0.0001 (J)	<0.002	0.0003 (J)
10/4/2017	0.0057				
1/9/2018			0.0003 (J)		
1/10/2018		0.0003 (J)		0.0001 (J)	
1/11/2018	0.0085				0.0003 (J)
7/10/2018		<0.002	<0.002	<0.002	
7/11/2018	0.0029 (J)				<0.002
1/16/2019	<0.002	<0.002	<0.002	<0.002	
1/17/2019					0.00028 (J)
3/25/2019	<0.002				
3/26/2019		<0.002	<0.002	<0.002	
3/27/2019					0.00029 (J)
8/27/2019	0.001 (J)		0.0011 (J)	<0.002	0.00021 (J)
8/28/2019		0.0011 (J)			
10/8/2019					0.00028 (J)
10/9/2019	0.00041 (J)	0.0025 (J)	0.00033 (J)	<0.002	
4/7/2020	0.00073 (J)	0.0014 (J)	0.00063 (J)	0.00012 (J)	0.00036 (J)
8/18/2020					0.00035 (J)
8/19/2020	0.00048 (J)	7.9E-05 (J)	0.00014 (J)	<0.002	
9/28/2020				4.3E-05 (J)	
9/29/2020					0.00032 (J)
9/30/2020		0.0012 (J)	8E-05 (J)		
10/1/2020	0.00026 (J)				
3/10/2021	0.0003 (J)	5.2E-05 (J)	9.6E-05 (J)	0.0001 (J)	0.00042 (J)
9/21/2021	<0.002	<0.002	<0.002		<0.002
9/23/2021				<0.002	
2/2/2022	<0.002		<0.002		
2/3/2022		<0.002		<0.002	<0.002
8/30/2022	<0.002	<0.002	<0.002		
8/31/2022					<0.002
9/1/2022				<0.002	
2/1/2023		<0.002	<0.002		<0.002

ND substitution: RL or RL/2 if <15% NDs.

Confidence Interval

Constituent: Lead (mg/L) Analysis Run 12/13/2024 1:56 PM View: Appendix II & IV - Confidence Intervals

Grumman Road Landfill Client: Southern Company Data: Grumman Road Landfill

	GWB-4R	GWB-5R	GWB-6R	GWC-1	GWC-11
2/2/2023	<0.002			<0.002	
8/29/2023	<0.002	<0.002	<0.002	<0.002	
9/6/2023					<0.002
1/23/2024			<0.002	<0.002	
1/24/2024					<0.002
2/7/2024	<0.002				
2/8/2024		<0.002			
8/20/2024	<0.002		<0.002	<0.002	
8/21/2024		0.000522 (J)			<0.002
Mean	0.003041	0.001286	0.001259	0.001695	0.0008884
Std. Dev.	0.002552	0.0008684	0.0008754	0.0007145	0.0008538
Upper Lim.	0.002872	0.002	0.002	0.002	0.002
Lower Lim.	0.0007123	0.0003	0.0003	0.00012	0.00021

ND substitution: RL or RL/2 if <15% NDs.

Confidence Interval

Constituent: Lead (mg/L) Analysis Run 12/13/2024 1:56 PM View: Appendix II & IV - Confidence Intervals

Grumman Road Landfill Client: Southern Company Data: Grumman Road Landfill

	GWC-12	GWC-13	GWC-14	GWC-15	GWC-16
1/17/2016			<0.002	<0.002	<0.002
1/18/2016	0.0034 (J)	<0.002			
4/26/2016			<0.002		<0.002
7/26/2016		<0.002			
7/27/2016	0.0001 (J)		<0.002	<0.002	
7/28/2016					<0.002
8/31/2016	0.0001 (J)	<0.002			
9/1/2016			<0.002	<0.002	<0.002
10/25/2016			<0.002	<0.002	0.0002 (J)
10/26/2016	0.0001 (J)	<0.002			
1/4/2017	<0.002				0.0001 (J)
1/5/2017		0.0002 (J)	<0.002	<0.002	
4/3/2017				0.0003 (J)	
4/4/2017			0.0001 (J)		
4/5/2017	0.0003 (J)				0.0002 (J)
4/6/2017		0.0005 (J)			
7/10/2017	0.0003 (J)				
7/11/2017			8E-05 (J)	0.0001 (J)	
7/12/2017		0.0005 (J)			0.0001 (J)
10/2/2017			0.0001 (J)	0.0002 (J)	
10/3/2017					0.0001 (J)
10/4/2017	0.0001 (J)	0.0007 (J)			
1/9/2018			<0.002	0.0002 (J)	
1/10/2018		0.0009 (J)			0.0002 (J)
1/11/2018	0.0002 (J)				
7/9/2018			<0.002		
7/10/2018				<0.002	<0.002
7/11/2018	<0.002	0.0015 (J)			
1/16/2019		0.00061 (J)	<0.002		
1/17/2019	<0.002			<0.002	<0.002
3/26/2019		<0.002	<0.002	<0.002	<0.002
3/27/2019	<0.002				
8/27/2019	<0.002	0.0001 (J)	0.00051 (J)	0.00033 (J)	
8/28/2019					0.0001 (J)
10/8/2019		0.00013 (J)	<0.002	0.00012 (J)	0.0001 (J)
10/9/2019	6.6E-05 (J)				
4/7/2020	8.1E-05 (J)		<0.002	8.6E-05 (J)	0.00023 (J)
4/8/2020		0.00017 (J)			
8/17/2020	4.9E-05 (J)	7.6E-05 (J)			
8/18/2020			<0.002	9E-05 (J)	0.00017 (J)
9/28/2020		6.4E-05 (J)			
9/29/2020	3.7E-05 (J)		<0.002		
9/30/2020				4.7E-05 (J)	9.1E-05 (J)
3/10/2021	6.8E-05 (J)				
3/12/2021				5.3E-05 (J)	
3/15/2021		0.00013 (J)			
3/16/2021			<0.002		7.3E-05 (J)
9/21/2021	<0.002	<0.002			
9/22/2021			<0.002		<0.002
9/23/2021				<0.002	
2/1/2022					<0.002
2/2/2022			<0.002		

ND substitution: RL or RL/2 if <15% NDs.

Confidence Interval

Constituent: Lead (mg/L) Analysis Run 12/13/2024 1:56 PM View: Appendix II & IV - Confidence Intervals

Grumman Road Landfill Client: Southern Company Data: Grumman Road Landfill

	GWC-12	GWC-13	GWC-14	GWC-15	GWC-16
2/3/2022	<0.002	<0.002		<0.002	
8/30/2022	<0.002		<0.002		
8/31/2022		<0.002		<0.002	
9/1/2022					<0.002
2/1/2023	<0.002	<0.002			<0.002
2/2/2023			<0.002	<0.002	
8/29/2023		<0.002			
9/6/2023	<0.002		<0.002		<0.002
9/7/2023				<0.002	
1/24/2024				<0.002	
1/25/2024	<0.002	<0.002	<0.002		<0.002
8/21/2024	<0.002	<0.002	<0.002	<0.002	<0.002
Mean	0.001156	0.001183	0.001723	0.001261	0.001141
Std. Dev.	0.001049	0.000855	0.0006671	0.0009257	0.000947
Upper Lim.	0.002	0.002	0.002	0.002	0.002
Lower Lim.	0.0001	0.0002	0.00051	0.00012	0.00017

ND substitution: RL or RL/2 if <15% NDs.

Confidence Interval

Constituent: Lead (mg/L) Analysis Run 12/13/2024 1:56 PM View: Appendix II & IV - Confidence Intervals

Grumman Road Landfill Client: Southern Company Data: Grumman Road Landfill

	GWC-17	GWC-2	GWC-20	GWC-21	GWC-22
1/17/2016		<0.002	<0.002	<0.002	
1/18/2016	<0.002				<0.002
7/27/2016		<0.002			
7/28/2016			<0.002	<0.002	
7/29/2016	<0.002				0.0004 (J)
8/31/2016		<0.002			0.0003 (J)
9/1/2016	<0.002		<0.002	<0.002	
10/25/2016			0.0001 (J)	<0.002	
10/26/2016	<0.002	<0.002			0.0003 (J)
1/4/2017			<0.002	<0.002	0.0003 (J)
1/5/2017	<0.002	<0.002			
4/4/2017		0.0002 (J)	7E-05 (J)	9E-05 (J)	
4/5/2017	0.0009 (J)				
4/6/2017					0.0003 (J)
7/11/2017			<0.002		0.0002 (J)
7/13/2017	<0.002	0.0003 (J)		7E-05 (J)	
10/2/2017			<0.002		
10/3/2017		<0.002		0.0001 (J)	
10/4/2017	0.0001 (J)				0.0008 (J)
1/9/2018				9E-05 (J)	
1/10/2018		8E-05 (J)	0.0002 (J)		
1/11/2018	0.0001 (J)				0.0009 (J)
7/9/2018			<0.002		
7/10/2018		<0.002		<0.002	
7/11/2018	<0.002				0.001 (J)
1/16/2019	<0.002				
1/17/2019				<0.002	
1/18/2019					0.0012 (J)
1/21/2019		<0.002	<0.002		
3/25/2019			<0.002		
3/26/2019	<0.002			<0.002	
3/27/2019					0.00047 (J)
7/30/2019		0.0002 (J)			
8/27/2019		<0.002			0.003 (J)
8/28/2019	<0.002		6.5E-05 (J)	0.00018 (J)	
10/8/2019				0.00016 (J)	
10/9/2019	0.00015 (J)	6.4E-05 (J)	0.00018 (J)		0.00032 (J)
4/7/2020				<0.002	0.00067 (J)
4/8/2020	8.4E-05 (J)	<0.002	<0.002		
8/18/2020	0.00014 (J)	<0.002	<0.002	0.00027 (J)	0.00072 (J)
9/29/2020		<0.002			
9/30/2020	6E-05 (J)		<0.002	5.4E-05 (J)	0.00023 (J)
3/10/2021					0.00016 (J)
3/11/2021	0.00019 (J)				
3/12/2021			<0.002		
3/15/2021		4.1E-05 (J)			
3/16/2021				<0.002	
9/21/2021					<0.002
9/22/2021	<0.002	<0.002	<0.002	<0.002	
2/1/2022	<0.002		<0.002	<0.002	
2/2/2022		<0.002			
2/3/2022					<0.002

ND substitution: RL or RL/2 if <15% NDs.

Confidence Interval

Constituent: Lead (mg/L) Analysis Run 12/13/2024 1:56 PM View: Appendix II & IV - Confidence Intervals

Grumman Road Landfill Client: Southern Company Data: Grumman Road Landfill

	GWC-17	GWC-2	GWC-20	GWC-21	GWC-22
8/30/2022			<0.002	<0.002	
8/31/2022	<0.002				<0.002
9/1/2022		<0.002			
2/1/2023	<0.002		<0.002		
2/2/2023		<0.002		<0.002	<0.002
8/29/2023	<0.002	<0.002			0.000511 (J)
9/6/2023			<0.002	<0.002	
1/23/2024					<0.002
1/24/2024	<0.002		<0.002		
1/25/2024		<0.002		<0.002	
8/21/2024	<0.002	<0.002	<0.002		<0.002
8/22/2024				<0.002	
Mean	0.001429	0.001555	0.001625	0.001401	0.001031
Std. Dev.	0.0008629	0.0008088	0.0007667	0.0008927	0.000829
Upper Lim.	0.002	0.002	0.002	0.002	0.0007045
Lower Lim.	0.00019	0.0003	0.0002	0.00018	0.0003141

ND substitution: RL or RL/2 if <15% NDs.

Confidence Interval

Constituent: Lead (mg/L) Analysis Run 12/13/2024 1:56 PM View: Appendix II & IV - Confidence Intervals

Grumman Road Landfill Client: Southern Company Data: Grumman Road Landfill

	GWC-9	MW-23D	MW-24D	MW-25D	MW-26D
1/18/2016	<0.002				
7/28/2016	<0.002				
8/31/2016	0.0007 (J)				
10/27/2016	<0.002				
1/6/2017	<0.002				
4/6/2017	0.0001 (J)				
7/12/2017	<0.002				
10/4/2017	9E-05 (J)				
1/11/2018	0.0002 (J)				
7/11/2018	<0.002				
1/18/2019	<0.002				
3/27/2019	<0.002				
8/28/2019	6.1E-05 (J)				
10/9/2019	<0.002				
4/8/2020	0.00021 (J)				
8/19/2020	9.6E-05 (J)				
10/1/2020	3.8E-05 (J)				
3/10/2021	0.00012 (J)				
3/11/2021		5.7E-05 (J)	9.4E-05 (J)	9.5E-05 (J)	0.00015 (J)
9/21/2021					<0.002
9/22/2021	<0.002	<0.002	<0.002		
9/23/2021				<0.002	
2/1/2022			<0.002		
2/2/2022	<0.002				<0.002
2/3/2022		<0.002		<0.002	
8/31/2022		<0.002		<0.002	
9/1/2022	<0.002		<0.002		
2/1/2023	<0.002	<0.002			
2/2/2023			<0.002	<0.002	
8/29/2023	<0.002				
9/6/2023		<0.002	<0.002		
9/7/2023				<0.002	
1/24/2024	<0.002	<0.002			
1/25/2024			<0.002	<0.002	<0.002
8/20/2024					<0.002
8/21/2024	<0.002	<0.002	<0.002	<0.002	
Mean	0.001345	0.001757	0.001762	0.001762	0.00163
Std. Dev.	0.0008996	0.000687	0.0006739	0.0006735	0.0008273
Upper Lim.	0.002	0.002	0.002	0.002	0.002
Lower Lim.	0.0002	5.7E-05	9.4E-05	9.5E-05	0.00015

ND substitution: RL or RL/2 if <15% NDs.

Confidence Interval

Constituent: Lithium (mg/L) Analysis Run 12/13/2024 1:56 PM View: Appendix II & IV - Confidence Intervals
Grumman Road Landfill Client: Southern Company Data: Grumman Road Landfill

	GWB-4R	GWB-5R	GWC-12	GWC-13	GWC-17
8/30/2016		0.0042 (J)			
8/31/2016			<0.03	<0.03	
9/1/2016	0.0092 (J)				0.0066 (J)
10/26/2016	0.0046 (J)	<0.03	<0.03	<0.03	0.0065 (J)
1/3/2017		0.0024 (J)			
1/4/2017			<0.03		
1/5/2017				<0.03	0.0062 (J)
1/6/2017	0.0042 (J)				
4/4/2017	0.0056 (J)				
4/5/2017			0.0012 (J)		0.007 (J)
4/6/2017		0.0051 (J)		<0.03	
7/10/2017			<0.03		
7/12/2017	0.0035 (J)	0.0031 (J)		<0.03	
7/13/2017					0.0069 (J)
10/3/2017		0.0027 (J)			
10/4/2017	0.0041 (J)		<0.03	<0.03	0.0082 (J)
1/10/2018		0.0041 (J)		<0.03	
1/11/2018	0.0052 (J)		<0.03		0.0061 (J)
7/10/2018		0.005 (J)			
7/11/2018	0.0039 (J)		0.00098 (J)	<0.03	0.0075 (J)
8/27/2019	0.013 (J)		0.00094 (J)	<0.03	
8/28/2019		<0.03			0.0041 (J)
10/8/2019				<0.03	
10/9/2019	0.013 (J)	<0.03	0.0011 (J)		0.0046 (J)
4/7/2020	0.014 (J)	<0.03	0.00094 (J)		
4/8/2020				<0.03	0.0051 (J)
8/17/2020			0.00091 (J)	<0.03	
8/18/2020					0.0065 (J)
8/19/2020	0.014 (J)	<0.03			
9/28/2020				<0.03	
9/29/2020			0.00086 (J)		
9/30/2020		<0.03			0.0041 (J)
10/1/2020	0.013 (J)				
3/10/2021	0.012 (J)	<0.03	0.00095 (J)		
3/11/2021					0.0036 (J)
3/15/2021				<0.03	
9/21/2021	0.016 (J)	<0.03	0.00091 (J)	0.00087 (J)	
9/22/2021					0.005 (J)
2/1/2022					0.0061 (J)
2/2/2022	0.015 (J)				
2/3/2022		<0.03	0.001 (J)	0.00077 (J)	
8/30/2022	0.0175	<0.03	<0.03		
8/31/2022				<0.03	0.00688 (J)
2/1/2023		<0.03	<0.03	<0.03	0.00532 (J)
2/2/2023	0.0184				
8/29/2023	0.0191	<0.03		<0.03	0.00502 (J)
9/6/2023			<0.03		
1/24/2024					0.00477 (J)
1/25/2024			<0.03	<0.03	
2/7/2024	0.0212				
2/8/2024		<0.03			
8/20/2024	0.0194				

ND substitution: RL or RL/2 if <15% NDs.

Confidence Interval

Constituent: Lithium (mg/L) Analysis Run 12/13/2024 1:56 PM View: Appendix II & IV - Confidence Intervals

Grumman Road Landfill Client: Southern Company Data: Grumman Road Landfill

	GWB-4R	GWB-5R	GWC-12	GWC-13	GWC-17
8/21/2024		<0.03	<0.03	<0.03	0.00567 (J)
Mean	0.01171	0.02127	0.01618	0.02722	0.005798
Std. Dev.	0.005942	0.01267	0.01485	0.008777	0.001215
Upper Lim.	0.01499	0.03	0.03	0.03	0.006468
Lower Lim.	0.008432	0.0042	0.00094	0.00087	0.005128

ND substitution: RL or RL/2 if <15% NDs.

Confidence Interval

Constituent: Lithium (mg/L) Analysis Run 12/13/2024 1:56 PM View: Appendix II & IV - Confidence Intervals

Grumman Road Landfill Client: Southern Company Data: Grumman Road Landfill

	GWC-9
8/31/2016	<0.05 (O)
10/27/2016	0.0023 (J)
1/6/2017	0.0021 (J)
4/6/2017	0.0021 (J)
7/12/2017	0.0017 (J)
10/4/2017	0.0021 (J)
1/11/2018	0.0022 (J)
7/11/2018	0.0019 (J)
8/28/2019	0.0018 (J)
10/9/2019	0.0018 (J)
4/8/2020	0.0018 (J)
8/19/2020	0.0019 (J)
10/1/2020	0.0019 (J)
3/10/2021	0.0018 (J)
9/22/2021	0.0015 (J)
2/2/2022	0.0017 (J)
9/1/2022	<0.03
2/1/2023	<0.03
8/29/2023	<0.03
1/24/2024	<0.03
8/21/2024	<0.03
Mean	0.00893
Std. Dev.	0.01248
Upper Lim.	0.0023
Lower Lim.	0.0018

ND substitution: RL or RL/2 if <15% NDs.

Confidence Interval

Constituent: Mercury (mg/L) Analysis Run 12/13/2024 1:56 PM View: Appendix II & IV - Confidence Intervals

Grumman Road Landfill Client: Southern Company Data: Grumman Road Landfill

	GWB-4R	GWB-5R	GWB-6R	GWC-1	GWC-11
8/30/2016		<0.0002	<0.0002	4E-05 (J)	
8/31/2016					<0.0002
9/1/2016	<0.0002				
10/25/2016				<0.0002	
10/26/2016	<0.0002	<0.0002	<0.0002		<0.0002
1/3/2017		<0.0002			
1/4/2017				<0.0002	<0.0002
1/5/2017			<0.0002		
1/6/2017	<0.0002				
4/4/2017	<0.0002			<0.0002	
4/6/2017		<0.0002	<0.0002		<0.0002
7/11/2017					<0.0002
7/12/2017	<0.0002	<0.0002	<0.0002	<0.0002	
10/3/2017		<0.0002	<0.0002	<0.0002	<0.0002
10/4/2017	<0.0002				
1/9/2018			<0.0002		
1/10/2018		<0.0002		<0.0002	
1/11/2018	<0.0002				<0.0002
7/10/2018		<0.0002	<0.0002	<0.0002	
7/11/2018	<0.0002				<0.0002
1/16/2019	4.9E-05 (J)	<0.0002	4.3E-05 (J)	<0.0002	
1/17/2019					<0.0002
8/27/2019	<0.0002		<0.0002	<0.0002	<0.0002
8/28/2019		<0.0002			
10/9/2019		<0.0002			
8/18/2020					<0.0002
8/19/2020	<0.0002	<0.0002	<0.0002	<0.0002	
9/21/2021	0.0001 (J)	0.0001 (J)	0.0001 (J)		0.0001 (J)
9/23/2021				0.0001 (J)	
2/2/2022	<0.0002		<0.0002		
2/3/2022		<0.0002		<0.0002	<0.0002
8/30/2022	<0.0002	8.7E-05 (J)	<0.0002		
8/31/2022					<0.0002
9/1/2022				<0.0002	
2/1/2023		<0.0002	<0.0002		<0.0002
2/2/2023	<0.0002			<0.0002	
8/29/2023	<0.0002	<0.0002	<0.0002	<0.0002	
9/6/2023					<0.0002
1/23/2024			<0.0002	<0.0002	
1/24/2024					<0.0002
2/7/2024	0.000487				
2/8/2024		0.000135 (J)			
8/20/2024	<0.0002		<0.0002	<0.0002	
8/21/2024		<0.0002			<0.0002
Mean	0.000202	0.0001854	0.0001857	0.0001856	0.0001944
Std. Dev.	8.228E-05	3.569E-05	4.269E-05	4.328E-05	2.357E-05
Upper Lim.	0.000487	0.0002	0.0002	0.0002	0.0002
Lower Lim.	0.0001	0.000135	0.0001	0.0001	0.0001

ND substitution: RL or RL/2 if <15% NDs.

Confidence Interval

Constituent: Mercury (mg/L) Analysis Run 12/13/2024 1:56 PM View: Appendix II & IV - Confidence Intervals

Grumman Road Landfill Client: Southern Company Data: Grumman Road Landfill

	GWC-12	GWC-13	GWC-14	GWC-15	GWC-16
8/31/2016	<0.0002	<0.0002			
9/1/2016			<0.0002	<0.0002	<0.0002
10/25/2016			<0.0002	<0.0002	<0.0002
10/26/2016	<0.0002	<0.0002			
1/4/2017	<0.0002				<0.0002
1/5/2017		<0.0002	<0.0002	<0.0002	
4/3/2017				<0.0002	
4/4/2017			<0.0002		
4/5/2017	<0.0002				<0.0002
4/6/2017		0.00013 (J)			
7/10/2017	<0.0002				
7/11/2017			<0.0002	<0.0002	
7/12/2017		<0.0002			<0.0002
10/2/2017			<0.0002	<0.0002	
10/3/2017					<0.0002
10/4/2017	<0.0002	<0.0002			
1/9/2018			<0.0002	<0.0002	
1/10/2018		<0.0002			<0.0002
1/11/2018	<0.0002				
7/9/2018			<0.0002		
7/10/2018				<0.0002	<0.0002
7/11/2018	<0.0002	<0.0002			
1/16/2019		<0.0002	<0.0002		
1/17/2019	<0.0002			<0.0002	<0.0002
8/27/2019	<0.0002	<0.0002	<0.0002	<0.0002	
8/28/2019					<0.0002
8/17/2020	<0.0002	<0.0002			
8/18/2020			<0.0002	<0.0002	<0.0002
9/21/2021	0.0001 (J)	0.0001 (J)			
9/22/2021			0.00011 (J)		0.0001 (J)
9/23/2021				0.0001 (J)	
2/1/2022					<0.0002
2/2/2022			<0.0002		
2/3/2022	<0.0002	<0.0002		<0.0002	
8/30/2022	<0.0002		<0.0002		
8/31/2022		<0.0002		<0.0002	
9/1/2022					<0.0002
2/1/2023	<0.0002	<0.0002			<0.0002
2/2/2023			<0.0002	<0.0002	
8/29/2023		<0.0002			
9/6/2023	<0.0002		<0.0002		<0.0002
9/7/2023				<0.0002	
1/24/2024				<0.0002	
1/25/2024	<0.0002	<0.0002	<0.0002		<0.0002
8/21/2024	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002
Mean	0.0001944	0.0001906	0.000195	0.0001944	0.0001944
Std. Dev.	2.357E-05	2.796E-05	2.121E-05	2.357E-05	2.357E-05
Upper Lim.	0.0002	0.0002	0.0002	0.0002	0.0002
Lower Lim.	0.0001	0.00013	0.00011	0.0001	0.0001

ND substitution: RL or RL/2 if <15% NDs.

Confidence Interval

Constituent: Mercury (mg/L) Analysis Run 12/13/2024 1:56 PM View: Appendix II & IV - Confidence Intervals

Grumman Road Landfill Client: Southern Company Data: Grumman Road Landfill

	GWC-17	GWC-2	GWC-20	GWC-21	GWC-22
8/31/2016		<0.0002			<0.0002
9/1/2016	<0.0002		<0.0002	<0.0002	
10/25/2016			<0.0002	<0.0002	
10/26/2016	<0.0002	<0.0002			<0.0002
1/4/2017			<0.0002	<0.0002	<0.0002
1/5/2017	<0.0002	<0.0002			
4/4/2017		<0.0002	<0.0002	<0.0002	
4/5/2017	<0.0002				
4/6/2017					<0.0002
7/11/2017			<0.0002		<0.0002
7/13/2017	<0.0002	<0.0002		<0.0002	
10/2/2017			<0.0002		
10/3/2017		<0.0002		<0.0002	
10/4/2017	<0.0002				<0.0002
1/9/2018				<0.0002	
1/10/2018		<0.0002	<0.0002		
1/11/2018	<0.0002				<0.0002
7/9/2018			<0.0002		
7/10/2018		<0.0002		<0.0002	
7/11/2018	<0.0002				<0.0002
1/16/2019	<0.0002				
1/17/2019				<0.0002	
1/18/2019					<0.0002
1/21/2019		<0.0002	<0.0002		
7/30/2019		<0.0002			
8/27/2019		<0.0002			<0.0002
8/28/2019	<0.0002		<0.0002	<0.0002	
8/18/2020	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002
9/21/2021					0.0001 (J)
9/22/2021	0.00011 (J)	0.0001 (J)	0.00011 (J)	0.00011 (J)	
2/1/2022	<0.0002		<0.0002	<0.0002	
2/2/2022		<0.0002			
2/3/2022					<0.0002
8/30/2022			<0.0002	<0.0002	
8/31/2022	<0.0002				<0.0002
9/1/2022		<0.0002			
2/1/2023	<0.0002		<0.0002		
2/2/2023		<0.0002		<0.0002	<0.0002
8/29/2023	<0.0002	<0.0002			<0.0002
9/6/2023			<0.0002	<0.0002	
1/23/2024					<0.0002
1/24/2024	0.000172 (J)		<0.0002		
1/25/2024		<0.0002		<0.0002	
8/21/2024	<0.0002	<0.0002	<0.0002		<0.0002
8/22/2024				<0.0002	
Mean	0.0001934	0.0001947	0.000195	0.000195	0.0001944
Std. Dev.	2.184E-05	2.294E-05	2.121E-05	2.121E-05	2.357E-05
Upper Lim.	0.0002	0.0002	0.0002	0.0002	0.0002
Lower Lim.	0.000172	0.0001	0.00011	0.00011	0.0001

ND substitution: RL or RL/2 if <15% NDs.

Confidence Interval

Constituent: Mercury (mg/L) Analysis Run 12/13/2024 1:56 PM View: Appendix II & IV - Confidence Intervals

Grumman Road Landfill Client: Southern Company Data: Grumman Road Landfill

	GWC-9	MW-23D	MW-24D	MW-25D	MW-26D
8/31/2016	<0.0002				
10/27/2016	<0.0002				
1/6/2017	<0.0002				
4/6/2017	<0.0002				
7/12/2017	<0.0002				
10/4/2017	5E-05 (J)				
1/11/2018	<0.0002				
7/11/2018	<0.0002				
1/18/2019	<0.0002				
8/28/2019	<0.0002				
8/19/2020	<0.0002				
9/21/2021					0.0001 (J)
9/22/2021	0.00011 (J)	0.00011 (J)	0.0001 (J)		
9/23/2021				0.0001 (J)	
2/1/2022			<0.0002		
2/2/2022	<0.0002				<0.0002
2/3/2022		<0.0002		<0.0002	
8/31/2022		<0.0002		<0.0002	
9/1/2022	<0.0002		<0.0002		
2/1/2023	<0.0002	<0.0002			
2/2/2023			<0.0002	<0.0002	
8/29/2023	<0.0002				
9/6/2023		<0.0002	<0.0002		
9/7/2023				<0.0002	
1/24/2024	<0.0002	<0.0002			
1/25/2024			<0.0002	<0.0002	<0.0002
8/20/2024					<0.0002
8/21/2024	<0.0002	<0.0002	<0.0002	<0.0002	
Mean	0.0001867	0.0001871	0.0001857	0.0001857	0.000175
Std. Dev.	4.015E-05	3.402E-05	3.78E-05	3.78E-05	5E-05
Upper Lim.	0.0002	0.0002	0.0002	0.0002	0.0002
Lower Lim.	0.00011	0.00011	0.0001	0.0001	0.0001

ND substitution: RL or RL/2 if <15% NDs.

Confidence Interval

Constituent: Molybdenum (mg/L) Analysis Run 12/13/2024 1:56 PM View: Appendix II & IV - Confidence Intervals
Grumman Road Landfill Client: Southern Company Data: Grumman Road Landfill

	GWB-4R	GWB-5R	GWB-6R	GWC-1	GWC-11
8/30/2016		<0.001	<0.01	0.175	
8/31/2016					<0.01
9/1/2016	0.035				
10/25/2016				0.242	
10/26/2016	0.0267	<0.001	<0.01		<0.01
1/3/2017		<0.001			
1/4/2017				0.167	<0.01
1/5/2017			<0.01		
1/6/2017	0.0278				
4/4/2017	0.0265			0.172	
4/6/2017		<0.001	<0.01		<0.01
7/11/2017					<0.01
7/12/2017	0.0209	<0.001	<0.01	0.182	
10/3/2017		<0.001	<0.01	0.162	<0.01
10/4/2017	0.0181				
1/9/2018			<0.01		
1/10/2018		<0.001		0.117	
1/11/2018	0.0237				0.0018 (J)
7/10/2018		<0.001	<0.01	0.11	
7/11/2018	0.024				<0.01
8/27/2019	0.1		0.0026 (J)	0.06	<0.01
8/28/2019		0.0012 (J)			
10/8/2019					<0.01
10/9/2019	0.1	<0.001	<0.01	0.06	
4/7/2020	0.13	<0.001	<0.01	0.014	<0.01
8/18/2020					0.00077 (J)
8/19/2020	0.16	<0.001	0.001 (J)	0.061	
9/28/2020				0.059	
9/29/2020					<0.01
9/30/2020		<0.001	0.00097 (J)		
10/1/2020	0.15				
3/10/2021	0.12	<0.001	0.0013 (J)	0.057	<0.01
9/21/2021	0.12	<0.001	<0.01		<0.01
9/23/2021				0.06	
2/2/2022	0.11		0.00085 (J)		
2/3/2022		<0.001		0.038	<0.01
8/30/2022	0.154	<0.001	0.000649 (J)		
8/31/2022					0.000512 (J)
9/1/2022				0.0343	
2/1/2023		0.00069 (J)	0.000553 (J)		0.000613 (J)
2/2/2023	0.199			0.0433	
8/29/2023	0.136	<0.001	0.000729 (J)	0.0293	
9/6/2023					0.000804 (J)
1/23/2024			0.000349 (J)	0.0408	
1/24/2024					0.000534 (J)
2/7/2024	0.138				
2/8/2024		0.002			
8/20/2024	0.103		0.000521 (J)	0.016	
8/21/2024		0.000577 (J)			0.000489 (J)
Mean	0.139	0.001022	0.005691	0.09046	0.00693
Std. Dev.	0.02839	0.0002554	0.00465	0.06659	0.004457
Upper Lim.	0.1643	0.0012	0.01	0.1166	0.01

ND substitution: RL or RL/2 if <15% NDs.

Confidence Interval

Constituent: Molybdenum (mg/L) Analysis Run 12/13/2024 1:56 PM View: Appendix II & IV - Confidence Intervals
Grumman Road Landfill Client: Southern Company Data: Grumman Road Landfill

	GWB-4R	GWB-5R	GWB-6R	GWC-1	GWC-11
Lower Lim.	0.1137	0.00069	0.000729	0.04884	0.00077

Confidence Interval

Constituent: Molybdenum (mg/L) Analysis Run 12/13/2024 1:56 PM View: Appendix II & IV - Confidence Intervals
Grumman Road Landfill Client: Southern Company Data: Grumman Road Landfill

	GWC-12	GWC-13	GWC-14	GWC-15	GWC-16
8/31/2016	<0.001	<0.001			
9/1/2016			0.0027 (J)	0.132	0.08
10/25/2016			0.0028 (J)	0.117	0.08
10/26/2016	<0.001	<0.001			
1/4/2017	<0.001				0.0786
1/5/2017		<0.001	0.0022 (J)	0.109	
4/3/2017				0.0994	
4/4/2017			0.0022 (J)		
4/5/2017	<0.001				0.113
4/6/2017		<0.001			
7/10/2017	<0.001				
7/11/2017			0.0024 (J)	0.0938	
7/12/2017		<0.001			0.178
10/2/2017			0.0025 (J)	0.103	
10/3/2017					0.201
10/4/2017	<0.001	<0.001			
1/9/2018			0.0038 (J)	0.106	
1/10/2018		<0.001			0.161
1/11/2018	<0.001				
7/9/2018			0.01		
7/10/2018				0.088	0.14
7/11/2018	<0.001	<0.001			
8/27/2019	<0.001	<0.001	0.028	0.095	
8/28/2019					0.22
10/8/2019		<0.001	0.034	0.091	0.2
10/9/2019	<0.001				
4/7/2020	<0.001		0.014	0.07	0.25
4/8/2020		0.0056 (J)			
8/17/2020	<0.001	<0.001			
8/18/2020			0.017	0.12	0.15
9/28/2020		<0.001			
9/29/2020	<0.001		0.0089 (J)		
9/30/2020				0.11	0.15
3/10/2021	<0.001				
3/12/2021				0.098	
3/15/2021		<0.001			
3/16/2021			0.0054 (J)		0.31
9/21/2021	<0.001	<0.001			
9/22/2021			0.018		0.22
9/23/2021				0.094	
2/1/2022					0.18
2/2/2022			0.015		
2/3/2022	<0.001	<0.001		0.086	
8/30/2022	0.000205 (J)		0.0133		
8/31/2022		<0.001		0.0786	
9/1/2022					0.154
2/1/2023	<0.001	<0.001			0.136
2/2/2023			0.0167	0.0748	
8/29/2023		<0.001			
9/6/2023	<0.001		0.0199		0.0886
9/7/2023				0.0588	
1/24/2024				0.0677	

ND substitution: RL or RL/2 if <15% NDs.

Confidence Interval

Constituent: Molybdenum (mg/L) Analysis Run 12/13/2024 1:56 PM View: Appendix II & IV - Confidence Intervals
Grumman Road Landfill Client: Southern Company Data: Grumman Road Landfill

	GWC-12	GWC-13	GWC-14	GWC-15	GWC-16
1/25/2024	<0.001	<0.001	0.0151		0.0816
8/21/2024	<0.001	<0.001	0.00505	0.0752	0.114
Mean	0.0009621	0.001219	0.01138	0.09368	0.1565
Std. Dev.	0.0001735	0.001004	0.009	0.01867	0.06235
Upper Lim.	0.001	0.0056	0.01634	0.104	0.1909
Lower Lim.	0.000205	0.001	0.006414	0.08338	0.1221

ND substitution: RL or RL/2 if <15% NDs.

Confidence Interval

Constituent: Molybdenum (mg/L) Analysis Run 12/13/2024 1:56 PM View: Appendix II & IV - Confidence Intervals
Grumman Road Landfill Client: Southern Company Data: Grumman Road Landfill

	GWC-17	GWC-2	GWC-20	GWC-21	GWC-22
8/31/2016		<0.001			<0.001
9/1/2016	<0.01		0.296	0.0686	
10/25/2016			0.395	0.0018 (J)	
10/26/2016	<0.01	<0.001			<0.001
1/4/2017			0.229	0.0222	<0.001
1/5/2017	<0.01	<0.001			
4/4/2017		<0.001	0.147	0.0476	
4/5/2017	<0.01				
4/6/2017					<0.001
7/11/2017			0.136		<0.001
7/13/2017	<0.01	<0.001		0.0105	
10/2/2017			0.13		
10/3/2017		<0.001		0.0031 (J)	
10/4/2017	<0.01				<0.001
1/9/2018				0.09	
1/10/2018		<0.001	0.229		
1/11/2018	<0.01				<0.001
7/9/2018			0.13		
7/10/2018		<0.001		0.047	
7/11/2018	<0.01				<0.001
7/30/2019		<0.001			
8/27/2019		<0.001			<0.001
8/28/2019	0.004 (J)		0.11	0.07	
10/8/2019				0.078	
10/9/2019	0.0036 (J)	<0.001	0.071		<0.001
4/7/2020				0.012	<0.001
4/8/2020	0.0024 (J)	<0.001	0.06		
8/18/2020	0.00092 (J)	<0.001	0.097	0.069	<0.001
9/29/2020		<0.001			
9/30/2020	0.0041 (J)		0.33	0.028	<0.001
3/10/2021					<0.001
3/11/2021	0.0038 (J)				
3/12/2021			0.53		
3/15/2021		<0.001			
3/16/2021				0.024	
9/21/2021					<0.001
9/22/2021	0.0053 (J)	<0.001	0.5	0.0019 (J)	
2/1/2022	0.003 (J)		0.77	0.042	
2/2/2022		<0.001			
2/3/2022					<0.001
8/30/2022			0.309	0.049	
8/31/2022	0.00252				<0.001
9/1/2022		<0.001			
2/1/2023	0.00484		0.384		
2/2/2023		<0.001		0.0352	0.000334 (J)
8/29/2023	0.00312	<0.001			<0.001
9/6/2023			0.753	0.0458	
1/23/2024					<0.001
1/24/2024	0.00353		0.12		
1/25/2024		0.000312 (J)		0.0355	
8/21/2024	0.00354	<0.001	0.506		<0.001
8/22/2024				0.0159	

ND substitution: RL or RL/2 if <15% NDs.

Confidence Interval

Constituent: Molybdenum (mg/L) Analysis Run 12/13/2024 1:56 PM View: Appendix II & IV - Confidence Intervals
Grumman Road Landfill Client: Southern Company Data: Grumman Road Landfill

	GWC-17	GWC-2	GWC-20	GWC-21	GWC-22
Mean	0.005937	0.0009687	0.2968	0.03796	0.0009683
Std. Dev.	0.003378	0.0001467	0.214	0.02637	0.0001453
Upper Lim.	0.01	0.001	0.4148	0.0525	0.001
Lower Lim.	0.00312	0.000312	0.1787	0.02341	0.000334

Confidence Interval

Constituent: Molybdenum (mg/L) Analysis Run 12/13/2024 1:56 PM View: Appendix II & IV - Confidence Intervals
Grumman Road Landfill Client: Southern Company Data: Grumman Road Landfill

	MW-23D	MW-24D	MW-25D
1/20/2021			0.0011 (J)
1/21/2021	<0.001	0.0014 (J)	
3/11/2021	<0.001	0.0035 (J)	0.0015 (J)
9/22/2021	<0.001	0.0032 (J)	
9/23/2021			<0.001
2/1/2022		0.0024 (J)	
2/3/2022	<0.001		<0.001
8/31/2022	<0.001		0.000863 (J)
9/1/2022		0.00174	
2/1/2023	<0.001		
2/2/2023		0.00113	<0.001
9/6/2023	<0.001	0.000882 (J)	
9/7/2023			<0.001
1/24/2024	0.000408 (J)		
1/25/2024		0.000995 (J)	0.000257 (J)
8/21/2024	<0.001	0.000894 (J)	<0.001
Mean	0.0009342	0.001793	0.0009689
Std. Dev.	0.0001973	0.001008	0.0003206
Upper Lim.	0.001	0.002703	0.0015
Lower Lim.	0.000408	0.0008955	0.000257

ND substitution: RL or RL/2 if <15% NDs.

Confidence Interval

Constituent: Selenium (mg/L) Analysis Run 12/13/2024 1:56 PM View: Appendix II & IV - Confidence Intervals

Grumman Road Landfill Client: Southern Company Data: Grumman Road Landfill

	GWB-4R	GWB-5R	GWB-6R	GWC-1	GWC-11
1/17/2016				0.023	
1/18/2016	<0.005	<0.005	<0.01		
1/19/2016					0.023
7/26/2016					0.0056 (J)
7/27/2016		<0.005		0.002 (J)	
7/28/2016			<0.01		
7/29/2016	0.0036 (J)				
8/30/2016		<0.005	<0.01	0.002 (J)	
8/31/2016					0.0084 (J)
9/1/2016	0.0067 (J)				
10/25/2016				0.0022 (J)	
10/26/2016	0.0042 (J)	<0.005	<0.01		0.0052 (J)
1/3/2017		<0.005			
1/4/2017				0.0016 (J)	0.0062 (J)
1/5/2017			0.0014 (J)		
1/6/2017	0.0042 (J)				
4/4/2017	0.0043 (J)			0.0052 (J)	
4/6/2017		<0.005	<0.01		0.0195
7/11/2017					<0.01
7/12/2017	0.0033 (J)	<0.005	<0.01	0.0024 (J)	
10/3/2017		<0.005	<0.01	<0.01	0.0079 (J)
10/4/2017	0.0038 (J)				
1/9/2018			<0.01		
1/10/2018		<0.005		0.0018 (J)	
1/11/2018	0.0029 (J)				0.0054 (J)
7/10/2018		0.0018 (J)	0.0016 (J)	0.0026 (J)	
7/11/2018	0.0015 (J)				0.0022 (J)
1/16/2019	<0.005	<0.005	<0.01	0.0018 (J)	
1/17/2019					<0.01
3/25/2019	<0.005				
3/26/2019		<0.005	0.05 (J)	0.0023 (J)	
3/27/2019					0.01 (J)
8/27/2019	<0.005		0.0033 (J)	0.0016 (J)	<0.01
8/28/2019		0.0033 (J)			
10/8/2019					<0.01
10/9/2019	<0.005	0.0073 (J)	<0.01	0.0024 (J)	
4/7/2020	0.0025 (J)	<0.005	<0.01	0.0013 (J)	0.0021 (J)
8/18/2020					0.0028 (J)
8/19/2020	<0.005	<0.005	<0.01	0.002 (J)	
9/28/2020				<0.01	
9/29/2020					0.0024 (J)
9/30/2020		<0.005	0.0023 (J)		
10/1/2020	<0.005				
3/10/2021	0.0021 (J)	0.006	0.0049 (J)	0.0026 (J)	0.0044 (J)
9/21/2021	<0.005	<0.005	0.0016 (J)		0.0038 (J)
9/23/2021				0.0018 (J)	
2/2/2022	<0.005		0.0017 (J)		
2/3/2022		<0.005		0.0022 (J)	0.019
8/30/2022	0.00265 (J)	<0.005	0.00277 (J)		
8/31/2022					0.00344 (J)
9/1/2022				0.00252 (J)	
2/1/2023		0.00187 (J)	0.00182 (J)		0.00333 (J)

ND substitution: RL or RL/2 if <15% NDs.

Confidence Interval

Constituent: Selenium (mg/L) Analysis Run 12/13/2024 1:56 PM View: Appendix II & IV - Confidence Intervals
Grumman Road Landfill Client: Southern Company Data: Grumman Road Landfill

	GWB-4R	GWB-5R	GWB-6R	GWC-1	GWC-11
2/2/2023	0.00466 (J)			0.0022 (J)	
8/29/2023	0.00261 (J)	<0.005	0.00204 (J)	0.00182 (J)	
9/6/2023					0.0036 (J)
1/23/2024			0.00223 (J)	0.00168 (J)	
1/24/2024					0.00303 (J)
2/7/2024	0.00258 (J)				
2/8/2024		0.00485 (J)			
8/20/2024	0.00381 (J)		0.00254 (J)	0.00155 (J)	
8/21/2024		0.00214 (J)			0.00627
Mean	0.004016	0.00469	0.007928	0.003223	0.007503
Std. Dev.	0.001237	0.001208	0.009586	0.004256	0.005638
Upper Lim.	0.00385	0.006	0.01	0.00252	0.007908
Lower Lim.	0.002748	0.00485	0.00223	0.0018	0.003675

ND substitution: RL or RL/2 if <15% NDs.

Confidence Interval

Constituent: Selenium (mg/L) Analysis Run 12/13/2024 1:56 PM View: Appendix II & IV - Confidence Intervals

Grumman Road Landfill Client: Southern Company Data: Grumman Road Landfill

	GWC-12	GWC-14	GWC-15	GWC-16	GWC-17
1/17/2016		<0.005	<0.005	0.0031 (J)	
1/18/2016	<0.005				<0.005
4/26/2016		0.00428 (J)		0.00497 (J)	
7/27/2016	0.0025 (J)	0.0038 (J)	<0.005		
7/28/2016				0.0076 (J)	
7/29/2016					0.0011 (J)
8/31/2016	0.0019 (J)				
9/1/2016		0.0056 (J)	<0.005	0.0052 (J)	0.0012 (J)
10/25/2016		0.0023 (J)	<0.005	0.0085 (J)	
10/26/2016	0.002 (J)				0.0013 (J)
1/4/2017	<0.005			0.0048 (J)	
1/5/2017		0.0038 (J)	<0.005		0.0012 (J)
4/3/2017			<0.005		
4/4/2017		0.0064 (J)			
4/5/2017	<0.005			0.0068 (J)	<0.005
7/10/2017	<0.005				
7/11/2017		0.0044 (J)	<0.005		
7/12/2017				0.0048 (J)	
7/13/2017					0.0018 (J)
10/2/2017		0.004 (J)	<0.005		
10/3/2017				0.0051 (J)	
10/4/2017	<0.005				0.0042 (J)
1/9/2018		0.0019 (J)	0.0019 (J)		
1/10/2018				0.0018 (J)	
1/11/2018	<0.005				<0.005
7/9/2018		0.0029 (J)			
7/10/2018			0.0086 (J)	0.0045 (J)	
7/11/2018	<0.005				0.0016 (J)
1/16/2019		0.0016 (J)			<0.005
1/17/2019	<0.005		0.0029 (J)	0.0031 (J)	
3/26/2019		0.0022 (J)	0.0074 (J)	0.0033 (J)	<0.005
3/27/2019	<0.005				
8/27/2019	<0.005	0.0035 (J)	0.0092 (J)		
8/28/2019				0.004 (J)	<0.005
10/8/2019		0.0026 (J)	0.014	0.0023 (J)	
10/9/2019	<0.005				<0.005
4/7/2020	<0.005	0.005 (J)	0.0029 (J)	<0.005	
4/8/2020					<0.005
8/17/2020	<0.005				
8/18/2020		0.0029 (J)	0.0022 (J)	0.0058 (J)	0.002 (J)
9/29/2020	<0.005	0.0051 (J)			
9/30/2020			<0.005	0.0037 (J)	<0.005
3/10/2021	0.003 (J)				
3/11/2021					0.0016 (J)
3/12/2021			0.0064		
3/16/2021		0.0034 (J)		0.0044 (J)	
9/21/2021	<0.005				
9/22/2021		0.0034 (J)		0.0031 (J)	<0.005
9/23/2021			0.0016 (J)		
2/1/2022				0.0024 (J)	<0.005
2/2/2022		0.0038 (J)			
2/3/2022	<0.005		0.0031 (J)		

ND substitution: RL or RL/2 if <15% NDs.

Confidence Interval

Constituent: Selenium (mg/L) Analysis Run 12/13/2024 1:56 PM View: Appendix II & IV - Confidence Intervals

Grumman Road Landfill Client: Southern Company Data: Grumman Road Landfill

	GWC-12	GWC-14	GWC-15	GWC-16	GWC-17
8/30/2022	<0.005	0.00544			
8/31/2022			0.00192 (J)		<0.005
9/1/2022				0.00334 (J)	
2/1/2023	<0.005			<0.005	<0.005
2/2/2023		0.0035 (J)	<0.005		
8/29/2023					<0.005
9/6/2023	<0.005	0.00516		0.00161 (J)	
9/7/2023			<0.005		
1/24/2024			0.0028 (J)		<0.005
1/25/2024	<0.005	0.00311 (J)		0.00185 (J)	
8/21/2024	<0.005	0.00337 (J)	0.00314 (J)	0.00313 (J)	<0.005
Mean	0.004576	0.003691	0.004922	0.004008	0.00384
Std. Dev.	0.001008	0.001219	0.002726	0.001776	0.001673
Upper Lim.	0.005	0.004285	0.0046	0.004873	0.005
Lower Lim.	0.003	0.003097	0.002297	0.003142	0.0018

ND substitution: RL or RL/2 if <15% NDs.

Confidence Interval

Constituent: Selenium (mg/L) Analysis Run 12/13/2024 1:56 PM View: Appendix II & IV - Confidence Intervals

Grumman Road Landfill Client: Southern Company Data: Grumman Road Landfill

	GWC-2	GWC-20	GWC-21	GWC-22
1/17/2016	<0.005	<0.005	0.021	
1/18/2016				<0.005
7/27/2016	0.002 (J)			
7/28/2016		<0.005	0.0341	
7/29/2016				0.0022 (J)
8/31/2016	<0.005			0.0014 (J)
9/1/2016		<0.005	0.0297	
10/25/2016		0.0014 (J)	0.0095 (J)	
10/26/2016	0.0035 (J)			0.001 (J)
1/4/2017		0.0014 (J)	0.022	<0.005
1/5/2017	<0.005			
4/4/2017	<0.005	<0.005	0.0236	
4/6/2017				<0.005
7/11/2017		<0.005		<0.005
7/13/2017	<0.005		0.013	
10/2/2017		<0.005		
10/3/2017	<0.005		0.01 (J)	
10/4/2017				0.0023 (J)
1/9/2018			0.0162	
1/10/2018	<0.005	<0.005		
1/11/2018				<0.005
7/9/2018		<0.005		
7/10/2018	<0.005		0.016	
7/11/2018				<0.005
1/17/2019			0.011	
1/18/2019				<0.005
1/21/2019	<0.005	0.0014 (J)		
3/25/2019		<0.005		
3/26/2019			0.022	
3/27/2019				<0.005
7/30/2019	<0.005			
8/27/2019	<0.005			<0.005
8/28/2019		0.0014 (J)	0.019	
10/8/2019			0.019	
10/9/2019	<0.005	<0.005		<0.005
4/7/2020			0.012	<0.005
4/8/2020	<0.005	0.0013 (J)		
8/18/2020	<0.005	<0.005	0.013	<0.005
9/29/2020	<0.005			
9/30/2020		<0.005	0.0061 (J)	<0.005
3/10/2021				<0.005
3/12/2021		<0.005		
3/15/2021	<0.005			
3/16/2021			0.0055	
9/21/2021				<0.005
9/22/2021	<0.005	0.0024 (J)	0.0027 (J)	
2/1/2022		<0.005	0.0054	
2/2/2022	<0.005			
2/3/2022				<0.005
8/30/2022		0.00192 (J)	0.00648	
8/31/2022				<0.005
9/1/2022	<0.005			

ND substitution: RL or RL/2 if <15% NDs.

Confidence Interval

Constituent: Selenium (mg/L) Analysis Run 12/13/2024 1:56 PM View: Appendix II & IV - Confidence Intervals
Grumman Road Landfill Client: Southern Company Data: Grumman Road Landfill

	GWC-2	GWC-20	GWC-21	GWC-22
2/1/2023		<0.005		
2/2/2023	<0.005		0.00542	<0.005
8/29/2023	<0.005			<0.005
9/6/2023		<0.005	0.00554	
1/23/2024				<0.005
1/24/2024		0.00455 (J)		
1/25/2024	<0.005		0.00452 (J)	
8/21/2024	<0.005	0.00209 (J)		<0.005
8/22/2024			0.00594	
Mean	0.00482	0.003914	0.01355	0.004476
Std. Dev.	0.0006595	0.001594	0.00846	0.001245
Upper Lim.	0.005	0.005	0.01776	0.005
Lower Lim.	0.0035	0.00209	0.009332	0.0023

ND substitution: RL or RL/2 if <15% NDs.

Confidence Interval

Constituent: Thallium (mg/L) Analysis Run 12/13/2024 1:56 PM View: Appendix II & IV - Confidence Intervals
Grumman Road Landfill Client: Southern Company Data: Grumman Road Landfill

	GWB-4R	GWB-5R	GWC-1	GWC-11	GWC-12
8/30/2016		<0.002	<0.002		
8/31/2016				<0.002	<0.002
9/1/2016	<0.002				
10/25/2016			<0.002		
10/26/2016	<0.002	<0.002		<0.002	0.0003 (J)
1/3/2017		<0.002			
1/4/2017			<0.002	<0.002	<0.002
1/6/2017	<0.002				
4/4/2017	7E-05 (J)		5E-05 (J)		
4/5/2017					0.0002 (J)
4/6/2017		<0.002		6E-05 (J)	
7/10/2017					0.0002 (J)
7/11/2017				<0.002	
7/12/2017	<0.002	<0.002	<0.002		
10/3/2017		<0.002	<0.002	7E-05 (J)	
10/4/2017	<0.002				0.0002 (J)
1/10/2018		<0.002	<0.002		
1/11/2018	7E-05 (J)			0.0001 (J)	0.0002 (J)
7/10/2018		<0.002	<0.002		
7/11/2018	<0.002			<0.002	<0.002
8/27/2019	<0.002		<0.002	<0.002	0.00011 (J)
8/28/2019		5.7E-05 (J)			
10/8/2019				9.8E-05 (J)	
10/9/2019	<0.002	0.00031 (J)	5.4E-05 (J)		0.00014 (J)
4/7/2020	<0.002	<0.002	5.4E-05 (J)	0.00019 (J)	0.00013 (J)
8/17/2020					<0.002
8/18/2020				0.00021 (J)	
8/19/2020	<0.002	<0.002	<0.002		
9/28/2020			<0.002		
9/29/2020				0.00017 (J)	<0.002
9/30/2020		<0.002			
10/1/2020	<0.002				
3/10/2021	<0.002	<0.002	<0.002	0.00022 (J)	<0.002
9/21/2021	<0.002	<0.002		<0.002	<0.002
9/23/2021			<0.002		
2/2/2022	<0.002				
2/3/2022		<0.002	<0.002	<0.002	<0.002
8/30/2022	<0.002	<0.002			<0.002
8/31/2022				<0.002	
9/1/2022			<0.002		
2/1/2023		<0.002		<0.002	<0.002
2/2/2023	<0.002		<0.002		
8/29/2023	<0.002	<0.002	<0.002		
9/6/2023				<0.002	<0.002
1/23/2024			<0.002		
1/24/2024				<0.002	
1/25/2024					<0.002
2/7/2024	<0.002				
2/8/2024		<0.002			
8/20/2024	<0.002		<0.002		
8/21/2024		<0.002		<0.002	<0.002
Mean	0.001816	0.001827	0.001722	0.001291	0.001309

ND substitution: RL or RL/2 if <15% NDs.

Confidence Interval

Constituent: Thallium (mg/L) Analysis Run 12/13/2024 1:56 PM View: Appendix II & IV - Confidence Intervals
Grumman Road Landfill Client: Southern Company Data: Grumman Road Landfill

	GWB-4R	GWB-5R	GWC-1	GWC-11	GWC-12
Std. Dev.	0.0005805	0.0005479	0.0006983	0.0009265	0.0009039
Upper Lim.	0.002	0.002	0.002	0.002	0.002
Lower Lim.	7E-05	0.00031	5.4E-05	0.00017	0.0002

Confidence Interval

Constituent: Thallium (mg/L) Analysis Run 12/13/2024 1:56 PM View: Appendix II & IV - Confidence Intervals

Grumman Road Landfill Client: Southern Company Data: Grumman Road Landfill

	GWC-14	GWC-16	GWC-17	GWC-2	GWC-21
8/31/2016				<0.002	
9/1/2016	<0.002	<0.002	<0.002		<0.002
10/25/2016	<0.002	<0.002			<0.002
10/26/2016			<0.002	<0.002	
1/4/2017		<0.002			<0.002
1/5/2017	<0.002		<0.002	<0.002	
4/4/2017	7E-05 (J)			<0.002	5E-05 (J)
4/5/2017		6E-05 (J)	0.0001 (J)		
7/11/2017	6E-05 (J)				
7/12/2017		<0.002			
7/13/2017			<0.002	<0.002	<0.002
10/2/2017	<0.002				
10/3/2017		<0.002		<0.002	<0.002
10/4/2017			0.0001 (J)		
1/9/2018	<0.002				<0.002
1/10/2018		5E-05 (J)		<0.002	
1/11/2018			0.0001 (J)		
7/9/2018	<0.002				
7/10/2018		<0.002		<0.002	<0.002
7/11/2018			<0.002		
7/30/2019				0.00011 (J)	
8/27/2019	<0.002			<0.002	
8/28/2019		<0.002	6.6E-05 (J)		<0.002
10/8/2019	<0.002	<0.002			<0.002
10/9/2019			7.6E-05 (J)	<0.002	
4/7/2020	<0.002	<0.002			<0.002
4/8/2020			5.6E-05 (J)	<0.002	
8/18/2020	<0.002	<0.002	<0.002	<0.002	<0.002
9/29/2020	<0.002			<0.002	
9/30/2020		<0.002	<0.002		<0.002
3/11/2021			<0.002		
3/15/2021				<0.002	
3/16/2021	<0.002	<0.002			<0.002
9/22/2021	<0.002	<0.002	<0.002	<0.002	<0.002
2/1/2022		<0.002	<0.002		<0.002
2/2/2022	<0.002			<0.002	
8/30/2022	<0.002				<0.002
8/31/2022			<0.002		
9/1/2022		<0.002		<0.002	
2/1/2023		<0.002	<0.002		
2/2/2023	<0.002			<0.002	<0.002
8/29/2023			<0.002	<0.002	
9/6/2023	<0.002	<0.002			<0.002
1/24/2024			<0.002		
1/25/2024	<0.002	<0.002		<0.002	<0.002
8/21/2024	<0.002	<0.002	<0.002	<0.002	
8/22/2024					<0.002
Mean	0.001816	0.001815	0.001452	0.001914	0.001907
Std. Dev.	0.000582	0.000585	0.0008875	0.0004029	0.0004255
Upper Lim.	0.002	0.002	0.002	0.002	0.002
Lower Lim.	7E-05	6E-05	0.0001	0.00011	5E-05

ND substitution: RL or RL/2 if <15% NDs.

Confidence Interval

Constituent: Thallium (mg/L) Analysis Run 12/13/2024 1:56 PM View: Appendix II & IV - Confidence Intervals

Grumman Road Landfill Client: Southern Company Data: Grumman Road Landfill

	GWC-22
8/31/2016	<0.002
10/26/2016	<0.002
1/4/2017	<0.002
4/6/2017	<0.002
7/11/2017	<0.002
10/4/2017	0.0001 (J)
1/11/2018	6E-05 (J)
7/11/2018	<0.002
8/27/2019	8.6E-05 (J)
10/9/2019	<0.002
4/7/2020	6.5E-05 (J)
8/18/2020	0.00017 (J)
9/30/2020	<0.002
3/10/2021	<0.002
9/21/2021	<0.002
2/3/2022	<0.002
8/31/2022	<0.002
2/2/2023	<0.002
8/29/2023	<0.002
1/23/2024	<0.002
8/21/2024	<0.002
Mean	0.001547
Std. Dev.	0.0008311
Upper Lim.	0.002
Lower Lim.	0.00017

ND substitution: RL or RL/2 if <15% NDs.

Confidence Interval

Constituent: Vanadium (mg/L) Analysis Run 12/13/2024 1:56 PM View: Appendix II & IV - Confidence Intervals
Grumman Road Landfill Client: Southern Company Data: Grumman Road Landfill

	GWB-4R	GWB-5R	GWB-6R	GWC-1	GWC-11
1/17/2016				0.0046 (J)	
1/18/2016	0.049	0.0069	0.0044 (J)		
1/19/2016					0.0025 (J)
7/26/2016					0.0027 (J)
7/27/2016		0.0046 (J)		0.0064 (J)	
7/28/2016			0.0038 (J)		
7/29/2016	0.0388				
1/3/2017		<0.01			
1/4/2017				<0.02	<0.01
1/5/2017			0.0077 (J)		
1/6/2017	0.0341				
4/4/2017	0.0371			0.0061 (J)	
4/6/2017		0.0063 (J)	0.0069 (J)		0.0025 (J)
7/11/2017					0.0027 (J)
7/12/2017	0.0399	0.0064 (J)	0.0098 (J)	0.0067 (J)	
1/9/2018			0.0086 (J)		
1/10/2018		0.0077 (J)		0.0056 (J)	
1/11/2018	0.0327				0.0019 (J)
7/10/2018		0.016	0.0098 (J)	0.0056 (J)	
7/11/2018	0.02				0.0021 (J)
1/16/2019	0.0022 (J)	0.0033 (J)	0.077	0.0043 (J)	
1/17/2019					0.0021 (J)
3/25/2019	0.004 (J)				
3/26/2019		0.0058 (J)	0.086	0.0051 (J)	
3/27/2019					0.0023 (J)
10/8/2019					<0.01
10/9/2019	<0.01	0.033 (J)	0.018 (J)	<0.02	
4/7/2020	0.0037 (J)	0.0053 (J)	0.041 (J)	0.0015 (J)	<0.01
9/28/2020				0.0042 (J)	
9/29/2020					0.0023 (J)
9/30/2020		0.0037 (J)	0.018		
10/1/2020	0.0047 (J)				
3/10/2021	0.0054 (J)	0.0026 (J)	0.027	0.005 (J)	0.0023 (J)
9/21/2021	0.0027 (J)	0.0039 (J)	0.015		0.002 (J)
9/23/2021				0.0042 (J)	
2/2/2022	0.0031 (J)		0.0099 (J)		
2/3/2022		0.0046 (J)		0.0028 (J)	0.0031 (J)
8/30/2022	0.00943 (J)	0.0138 (J)	0.0192 (J)		
8/31/2022					0.00481 (J)
9/1/2022				0.00748 (J)	
2/1/2023		0.0255	0.0201		0.00373 (J)
2/2/2023	0.021			0.00497 (J)	
8/29/2023	0.0201	0.00917 (J)	0.0226	0.0146 (J)	
9/6/2023					0.00685 (J)
1/23/2024			0.022	<0.02	
1/24/2024					0.00641 (J)
2/7/2024	0.0119 (J)				
2/8/2024		0.0609			
8/20/2024	0.0189 (J)		0.0155 (J)	<0.02	
8/21/2024		0.0209			0.00332 (J)
Mean	0.01819	0.01227	0.02212	0.008457	0.004181
Std. Dev.	0.01531	0.01408	0.02217	0.006428	0.00286

ND substitution: RL or RL/2 if <15% NDs.

Confidence Interval

Constituent: Vanadium (mg/L) Analysis Run 12/13/2024 1:56 PM View: Appendix II & IV - Confidence Intervals
Grumman Road Landfill Client: Southern Company Data: Grumman Road Landfill

	GWB-4R	GWB-5R	GWB-6R	GWC-1	GWC-11
Upper Lim.	0.02688	0.01324	0.02766	0.006309	0.00641
Lower Lim.	0.009494	0.005072	0.01016	0.00346	0.0023

Confidence Interval

Constituent: Vanadium (mg/L) Analysis Run 12/13/2024 1:56 PM View: Appendix II & IV - Confidence Intervals

Grumman Road Landfill Client: Southern Company Data: Grumman Road Landfill

	GWC-12	GWC-13	GWC-14	GWC-15	GWC-16
1/17/2016			0.028	0.0013 (J)	0.0029 (J)
1/18/2016	0.0058	0.0011 (J)			
4/26/2016			0.0181		0.00296 (J)
7/26/2016		<0.02			
7/27/2016	0.0058 (J)		0.0189	<0.01	
7/28/2016					0.0026 (J)
10/25/2016			0.0206	<0.01	<0.05
1/4/2017	<0.01				<0.05
1/5/2017		<0.02	0.0172	<0.01	
4/3/2017				0.002 (J)	
4/4/2017			0.0235		
4/5/2017	0.0039 (J)				0.0033 (J)
4/6/2017		<0.02			
7/10/2017	0.0062 (J)				
7/11/2017			0.0136	0.0022 (J)	
7/12/2017		0.0016 (J)			0.0037 (J)
10/2/2017			0.0175	0.0022 (J)	
10/3/2017					0.0036 (J)
1/9/2018			0.0103	0.0021 (J)	
1/10/2018		0.0019 (J)			0.0029 (J)
1/11/2018	0.0025 (J)				
7/9/2018			0.0078 (J)		
7/10/2018				0.0025 (J)	0.0025 (J)
7/11/2018	0.0059 (J)	0.0097 (J)			
1/16/2019		<0.02	0.0043 (J)		
1/17/2019	<0.01			<0.01	0.0021 (J)
3/26/2019		0.0029 (J)	0.0063 (J)	0.0026 (J)	0.0038 (J)
3/27/2019	0.0049 (J)				
10/8/2019		<0.02	<0.01	<0.01	<0.05
10/9/2019	0.0021 (J)				
4/7/2020	0.0024 (J)		0.0026 (J)	<0.01	<0.05
4/8/2020		<0.02			
9/28/2020		<0.02			
9/29/2020	0.0046 (J)		<0.01		
9/30/2020				0.0028 (J)	0.0028 (J)
3/10/2021	0.0055 (J)				
3/12/2021				0.0037 (J)	
3/15/2021		<0.02			
3/16/2021			<0.01		0.0034 (J)
9/21/2021	0.0051 (J)	<0.02			
9/22/2021			0.0052 (J)		0.0025 (J)
9/23/2021				0.0022 (J)	
2/1/2022					0.0021 (J)
2/2/2022			0.004 (J)		
2/3/2022	0.0052 (J)	<0.02		0.0023 (J)	
8/30/2022	0.00949 (J)		0.00933 (J)		
8/31/2022		<0.02		0.00476 (J)	
9/1/2022					0.0065 (J)
2/1/2023	0.0056 (J)	<0.02			0.00361 (J)
2/2/2023			0.00594 (J)	0.00453 (J)	
8/29/2023		0.0188 (J)			
9/6/2023	0.0101 (J)		0.00671 (J)		0.00631 (J)

ND substitution: RL or RL/2 if <15% NDs.

Confidence Interval

Constituent: Vanadium (mg/L) Analysis Run 12/13/2024 1:56 PM View: Appendix II & IV - Confidence Intervals

Grumman Road Landfill Client: Southern Company Data: Grumman Road Landfill

	GWC-12	GWC-13	GWC-14	GWC-15	GWC-16
9/7/2023				0.00462 (J)	
1/24/2024				0.00594 (J)	
1/25/2024	0.00544 (J)	0.00439 (J)	0.00731 (J)		0.00575 (J)
8/21/2024	0.00869 (J)	<0.02	0.0038 (J)	0.00338 (J)	0.00407 (J)
Mean	0.005461	0.01502	0.0107	0.00496	0.01163
Std. Dev.	0.002087	0.00785	0.007344	0.003341	0.01804
Upper Lim.	0.006646	0.02	0.01339	0.003467	0.00631
Lower Lim.	0.004276	0.00439	0.006421	0.002202	0.0028

ND substitution: RL or RL/2 if <15% NDs.

Confidence Interval

Constituent: Vanadium (mg/L) Analysis Run 12/13/2024 1:56 PM View: Appendix II & IV - Confidence Intervals

Grumman Road Landfill Client: Southern Company Data: Grumman Road Landfill

	GWC-17	GWC-2	GWC-20	GWC-21	GWC-22
1/17/2016		<0.02	0.0025 (J)	0.0039 (J)	
1/18/2016	0.0019 (J)				<0.02
7/27/2016		<0.02			
7/28/2016			0.0024 (J)	0.0022 (J)	
7/29/2016	0.0031 (J)				0.0052 (J)
10/25/2016			<0.01		
1/4/2017			<0.01	<0.01	<0.02
1/5/2017	<0.02	<0.02			
4/4/2017		<0.02	0.0024 (J)	0.003 (J)	
4/5/2017	0.0029 (J)				
4/6/2017					<0.02
7/11/2017			0.003 (J)		0.0016 (J)
7/13/2017	0.0037 (J)	<0.02		0.0019 (J)	
10/2/2017			0.0028 (J)		
1/9/2018				0.0046 (J)	
1/10/2018		<0.02	0.0026 (J)		
1/11/2018	0.0026 (J)				0.0012 (J)
7/9/2018			<0.01		
7/10/2018		<0.02		0.0031 (J)	
7/11/2018	0.0032 (J)				0.0025 (J)
1/16/2019	<0.02				
1/17/2019				0.0022 (J)	
1/18/2019					<0.02
1/21/2019		0.0024 (J)	0.0031 (J)		
3/25/2019			0.0024 (J)		
3/26/2019	0.0024 (J)			0.0041 (J)	
3/27/2019					0.002 (J)
7/30/2019		<0.02			
10/8/2019				<0.01	
10/9/2019	<0.02	<0.02	<0.01		<0.02
4/7/2020				<0.01	0.0014 (J)
4/8/2020	<0.02	<0.02	<0.01		
9/29/2020		<0.02			
9/30/2020	<0.02		0.0029 (J)	0.0029 (J)	<0.02
3/10/2021					<0.02
3/11/2021	<0.02				
3/12/2021			0.0038 (J)		
3/15/2021		<0.02			
3/16/2021				0.003 (J)	
9/21/2021					<0.02
9/22/2021	<0.02	<0.02	0.0033 (J)	<0.01	
2/1/2022	0.0022 (J)		0.0039 (J)	0.0036 (J)	
2/2/2022		<0.02			
2/3/2022					<0.02
8/30/2022			0.00647 (J)	0.00715 (J)	
8/31/2022	0.00599 (J)				0.00396 (J)
9/1/2022		0.0045 (J)			
2/1/2023	0.005 (J)		0.00526 (J)		
2/2/2023		<0.02		0.00537 (J)	<0.02
8/29/2023	0.0108 (J)	0.00777 (J)			0.0353
9/6/2023			0.00768 (J)	0.0101 (J)	
1/23/2024					0.00394 (J)

ND substitution: RL or RL/2 if <15% NDs.

Confidence Interval

Constituent: Vanadium (mg/L) Analysis Run 12/13/2024 1:56 PM View: Appendix II & IV - Confidence Intervals
Grumman Road Landfill Client: Southern Company Data: Grumman Road Landfill

	GWC-17	GWC-2	GWC-20	GWC-21	GWC-22
1/24/2024	0.0059 (J)		0.00642 (J)		
1/25/2024		<0.02		0.00735 (J)	
8/21/2024	<0.02	<0.02	0.00558 (J)		<0.02
8/22/2024				0.00457 (J)	
Mean	0.01048	0.01773	0.005296	0.005452	0.01385
Std. Dev.	0.008197	0.005605	0.003004	0.003059	0.009951
Upper Lim.	0.02	0.02	0.00768	0.005106	0.02
Lower Lim.	0.0029	0.00777	0.0028	0.002913	0.0025

ND substitution: RL or RL/2 if <15% NDs.

Confidence Interval

Constituent: Vanadium (mg/L) Analysis Run 12/13/2024 1:56 PM View: Appendix II & IV - Confidence Intervals

Grumman Road Landfill Client: Southern Company Data: Grumman Road Landfill

	GWC-9	MW-24D	MW-25D
1/18/2016	<0.02		
7/28/2016	<0.02		
1/6/2017	<0.02		
4/6/2017	<0.02		
7/12/2017	0.0013 (J)		
1/11/2018	<0.02		
7/11/2018	<0.02		
1/18/2019	<0.02		
3/27/2019	<0.02		
10/9/2019	<0.02		
4/8/2020	0.0015 (J)		
10/1/2020	<0.02		
3/10/2021	<0.02		
3/11/2021		<0.02	0.0024 (J)
9/22/2021	<0.02	<0.02	
9/23/2021			<0.02
2/1/2022		<0.02	
2/2/2022	<0.02		
2/3/2022			<0.02
8/31/2022			<0.02
9/1/2022	0.00514 (J)	0.00414 (J)	
2/1/2023	<0.02		
2/2/2023		<0.02	<0.02
8/29/2023	0.0103 (J)		
9/6/2023		<0.02	
9/7/2023			<0.02
1/24/2024	<0.02		
1/25/2024		<0.02	<0.02
8/21/2024	<0.02	<0.02	<0.02
Mean	0.01691	0.01802	0.0178
Std. Dev.	0.006554	0.005607	0.006223
Upper Lim.	0.02	0.02	0.02
Lower Lim.	0.0103	0.00414	0.0024

ND substitution: RL or RL/2 if <15% NDs.

Confidence Interval

Constituent: Zinc (mg/L) Analysis Run 12/13/2024 1:56 PM View: Appendix II & IV - Confidence Intervals

Grumman Road Landfill Client: Southern Company Data: Grumman Road Landfill

	GWB-4R	GWB-5R	GWB-6R	GWC-1	GWC-11
1/17/2016				<0.02	
1/18/2016	0.0092	<0.02	0.0029		
1/19/2016					0.0029
7/26/2016					<0.02
7/27/2016		0.0015 (J)		<0.02	
7/28/2016			<0.01		
7/29/2016	0.003 (J)				
1/3/2017		<0.02			
1/4/2017				<0.02	<0.02
1/5/2017			<0.01		
1/6/2017	0.0104				
4/4/2017	0.0132			<0.02	
4/6/2017		0.0023 (J)	0.0032 (J)		0.004 (J)
7/11/2017					<0.02
7/12/2017	0.0046 (J)	<0.02	0.002 (J)	<0.02	
1/9/2018			0.0036 (J)		
1/10/2018		0.0022 (J)		0.0014 (J)	
1/11/2018	0.0095 (J)				0.0018 (J)
7/10/2018		<0.02	0.0055 (J)	0.0021 (J)	
7/11/2018	0.0028 (J)				<0.02
1/16/2019	0.0052 (J)	<0.02	<0.01	<0.02	
1/17/2019					<0.02
3/25/2019	0.0078 (J)				
3/26/2019		<0.02	<0.01	<0.02	
3/27/2019					<0.02
10/8/2019					0.0061 (J)
10/9/2019	0.0064 (J)	0.0081 (J)	0.016 (J)	0.0057 (J)	
4/7/2020	<0.02	<0.02	<0.01	<0.02	<0.02
9/28/2020				0.0092 (J)	
9/29/2020					0.0031 (J)
9/30/2020		<0.02	<0.01		
10/1/2020	0.0064 (J)				
3/10/2021	<0.02	<0.02	<0.01	<0.02	<0.02
9/21/2021	<0.02	<0.02	<0.01		<0.02
9/23/2021				<0.02	
2/2/2022	<0.02		<0.01		
2/3/2022		<0.02		<0.02	<0.02
8/30/2022	<0.02	<0.02	0.0132 (J)		
8/31/2022					<0.02
9/1/2022				0.00578 (J)	
2/1/2023		<0.02	0.0121 (J)		<0.02
2/2/2023	<0.02			<0.02	
8/29/2023	<0.02	<0.02	0.0406	<0.02	
9/6/2023					0.00479 (J)
1/23/2024			0.0212	<0.02	
1/24/2024					<0.02
2/7/2024	0.00455 (J)				
2/8/2024		<0.02			
8/20/2024	0.00972 (J)		0.0355	0.00917 (J)	
8/21/2024		<0.02			0.0392
Mean	0.01164	0.0167	0.01229	0.01567	0.01609
Std. Dev.	0.006771	0.00687	0.009946	0.007002	0.009328

ND substitution: RL or RL/2 if <15% NDs.

Confidence Interval

Constituent: Zinc (mg/L) Analysis Run 12/13/2024 1:56 PM View: Appendix II & IV - Confidence Intervals

Grumman Road Landfill Client: Southern Company Data: Grumman Road Landfill

	GWB-4R	GWB-5R	GWB-6R	GWC-1	GWC-11
Upper Lim.	0.008467	0.02	0.01235	0.02	0.02
Lower Lim.	0.004946	0.0081	0.003432	0.00917	0.00479

Confidence Interval

Constituent: Zinc (mg/L) Analysis Run 12/13/2024 1:56 PM View: Appendix II & IV - Confidence Intervals

Grumman Road Landfill Client: Southern Company Data: Grumman Road Landfill

	GWC-12	GWC-13	GWC-14	GWC-15	GWC-16
1/17/2016			<0.02	<0.02	<0.02
1/18/2016	0.0025	0.0017 (J)			
4/26/2016			<0.02		<0.02
7/26/2016		0.0028 (J)			
7/27/2016	0.0021 (J)		<0.02	<0.02	
7/28/2016					<0.02
10/25/2016			<0.02	<0.02	<0.02
1/4/2017	0.0025 (J)				0.0025 (J)
1/5/2017		0.0021 (J)	<0.02	<0.02	
4/3/2017				<0.02	
4/4/2017			<0.02		
4/5/2017	0.0026 (J)				0.0025 (J)
4/6/2017		0.0027 (J)			
7/10/2017	0.0023 (J)				
7/11/2017			<0.02	<0.02	
7/12/2017		0.0043 (J)			0.002 (J)
10/2/2017			0.0026 (J)	<0.02	
10/3/2017					<0.02
1/9/2018			0.0018 (J)	<0.02	
1/10/2018		0.0021 (J)			0.0016 (J)
1/11/2018	0.0031 (J)				
7/9/2018			<0.02		
7/10/2018				<0.02	0.0031 (J)
7/11/2018	0.0036 (J)	0.0039 (J)			
1/16/2019		0.047	<0.02		
1/17/2019	0.0032 (J)			<0.02	<0.02
3/26/2019		0.03	<0.02	<0.02	<0.02
3/27/2019	0.0031 (J)				
10/8/2019		0.053	0.0052 (J)	0.0051 (J)	0.01
10/9/2019	0.0057 (J)				
4/7/2020	<0.02		<0.02	<0.02	<0.02
4/8/2020		0.023			
9/28/2020		0.016			
9/29/2020	0.0074 (J)		<0.02		
9/30/2020				0.032	0.0051 (J)
3/10/2021	<0.02				
3/12/2021				<0.02	
3/15/2021		0.039			
3/16/2021			<0.02		<0.02
9/21/2021	<0.02	0.036			
9/22/2021			0.01		<0.02
9/23/2021				<0.02	
2/1/2022					<0.02
2/2/2022			<0.02		
2/3/2022	<0.02	0.037		<0.02	
8/30/2022	0.0262		<0.02		
8/31/2022		0.0266		0.00395 (J)	
9/1/2022					0.0119 (J)
2/1/2023	0.00334 (J)	0.025			<0.02
2/2/2023			<0.02	<0.02	
8/29/2023		0.0194 (J)			
9/6/2023	<0.02		<0.02		<0.02

ND substitution: RL or RL/2 if <15% NDs.

Confidence Interval

Constituent: Zinc (mg/L) Analysis Run 12/13/2024 1:57 PM View: Appendix II & IV - Confidence Intervals

Grumman Road Landfill Client: Southern Company Data: Grumman Road Landfill

	GWC-12	GWC-13	GWC-14	GWC-15	GWC-16
9/7/2023				<0.02	
1/24/2024				<0.02	
1/25/2024	<0.02	0.0195 (J)	<0.02		<0.02
8/21/2024	0.00744 (J)	0.0168 (J)	<0.02	<0.02	<0.02
Mean	0.009754	0.0204	0.01737	0.01914	0.01473
Std. Dev.	0.008611	0.01623	0.006009	0.005378	0.007712
Upper Lim.	0.02	0.02961	0.02	0.032	0.02
Lower Lim.	0.0026	0.01118	0.01	0.0051	0.0051

ND substitution: RL or RL/2 if <15% NDs.

Confidence Interval

Constituent: Zinc (mg/L) Analysis Run 12/13/2024 1:57 PM View: Appendix II & IV - Confidence Intervals

Grumman Road Landfill Client: Southern Company Data: Grumman Road Landfill

	GWC-17	GWC-2	GWC-20	GWC-21	GWC-22
1/17/2016		<0.02	<0.02	<0.02	
1/18/2016	0.012				<0.02
7/27/2016		0.0018 (J)			
7/28/2016			<0.02	<0.02	
7/29/2016	0.0086 (J)				0.0129
10/25/2016			<0.02		
1/4/2017			<0.02	<0.02	0.006 (J)
1/5/2017	0.016	<0.02			
4/4/2017		0.0015 (J)	<0.02	0.0015 (J)	
4/5/2017	0.0175				
4/6/2017					0.0031 (J)
7/11/2017			<0.02		0.0029 (J)
7/13/2017	0.0126	0.0014 (J)		0.002 (J)	
10/2/2017			<0.02		
1/9/2018				0.0016 (J)	
1/10/2018		<0.02	0.0034 (J)		
1/11/2018	0.012				0.0106
7/9/2018			<0.02		
7/10/2018		<0.02		<0.02	
7/11/2018	0.011				0.0057 (J)
1/16/2019	0.0094 (J)				
1/17/2019				<0.02	
1/18/2019					0.0024 (J)
1/21/2019		<0.02	<0.02		
3/25/2019			<0.02		
3/26/2019	0.0057 (J)			<0.02	
3/27/2019					<0.02
7/30/2019		0.0067 (J)			
10/8/2019				0.0071 (J)	
10/9/2019	0.011	0.005 (J)	0.0049 (J)		0.0079 (J)
4/7/2020				<0.02	<0.02
4/8/2020	<0.01	<0.02	<0.02		
9/29/2020		0.056			
9/30/2020	0.0043 (J)		0.031	0.0096 (J)	<0.02
3/10/2021					<0.02
3/11/2021	0.0056 (J)				
3/12/2021			<0.02		
3/15/2021		<0.02			
3/16/2021				<0.02	
9/21/2021					<0.02
9/22/2021	<0.01	<0.02	<0.02	<0.02	
2/1/2022	0.011		<0.02	<0.02	
2/2/2022		<0.02			
2/3/2022					<0.02
8/30/2022			0.0171 (J)	0.00814 (J)	
8/31/2022	0.0068 (J)				<0.02
9/1/2022		0.0125 (J)			
2/1/2023	0.00583 (J)		<0.02		
2/2/2023		<0.02		<0.02	<0.02
8/29/2023	0.00535 (J)	<0.02			0.0054 (J)
9/6/2023			<0.02	<0.02	
1/23/2024					<0.02

ND substitution: RL or RL/2 if <15% NDs.

Confidence Interval

Constituent: Zinc (mg/L) Analysis Run 12/13/2024 1:57 PM View: Appendix II & IV - Confidence Intervals

Grumman Road Landfill Client: Southern Company Data: Grumman Road Landfill

	GWC-17	GWC-2	GWC-20	GWC-21	GWC-22
1/24/2024	0.00654 (J)		<0.02		
1/25/2024		<0.02		<0.02	
8/21/2024	0.0066 (J)	<0.02	<0.02		0.0141 (J)
8/22/2024				<0.02	
Mean	0.008891	0.01724	0.01893	0.0155	0.01355
Std. Dev.	0.003845	0.01175	0.005379	0.007307	0.007216
Upper Lim.	0.01107	0.02	0.031	0.02	0.02
Lower Lim.	0.006708	0.0067	0.0171	0.00814	0.0057

ND substitution: RL or RL/2 if <15% NDs.

Confidence Interval

Constituent: Zinc (mg/L) Analysis Run 12/13/2024 1:57 PM View: Appendix II & IV - Confidence Intervals

Grumman Road Landfill Client: Southern Company Data: Grumman Road Landfill

	GWC-9	MW-23D	MW-24D	MW-25D	MW-26D
1/18/2016	0.0059				
7/28/2016	0.0019 (J)				
1/6/2017	0.0026 (J)				
4/6/2017	0.0047 (J)				
7/12/2017	0.003 (J)				
1/11/2018	0.0046 (J)				
7/11/2018	0.0033 (J)				
1/18/2019	0.0025 (J)				
3/27/2019	0.0026 (J)				
10/9/2019	0.0054 (J)				
4/8/2020	<0.02				
10/1/2020	0.025				
3/10/2021	<0.02				
3/11/2021		0.0067 (J)	0.0025 (J)	0.0054 (J)	0.008 (J)
9/21/2021					<0.01
9/22/2021	<0.02	<0.02	<0.02		
9/23/2021				<0.02	
2/1/2022			<0.02		
2/2/2022	<0.02				<0.01
2/3/2022		<0.02		0.051	
8/31/2022		0.0106 (J)		0.0161 (J)	
9/1/2022	0.0163 (J)		0.0102 (J)		
2/1/2023	<0.02	0.0121 (J)			
2/2/2023			<0.02	<0.02	
8/29/2023	<0.02				
9/6/2023		<0.02	<0.02		
9/7/2023				<0.02	
1/24/2024	<0.02	<0.02			
1/25/2024			<0.02	0.00738 (J)	0.0401
8/20/2024					0.0261
8/21/2024	0.0137 (J)	<0.02	<0.02	<0.02	
Mean	0.01157	0.01617	0.01659	0.01998	0.01884
Std. Dev.	0.008427	0.005485	0.006645	0.01388	0.01395
Upper Lim.	0.02	0.02	0.02	0.02648	0.03994
Lower Lim.	0.003	0.0067	0.0025	0.003687	0

ND substitution: RL or RL/2 if <15% NDs.

FIGURE K.

Appendix II & IV - Trend Test Summary - Significant Results

Grumman Road Landfill Client: Southern Company Data: Grumman Road Landfill Printed 12/13/2024, 1:59 PM

Constituent	Well	Slope	Calc.	Critical	Sig.	N	%NDs	Normality	Alpha	Method
Arsenic (mg/L)	**GWA-7 (bg)**	**-0.0008321**	**-93**	**-85**	**Yes**	**25**	**24**	**n/a**	**0.05**	**NP**
Arsenic (mg/L)	**GWC-15**	**0.03066**	**218**	**85**	**Yes**	**25**	**0**	**n/a**	**0.05**	**NP**
Arsenic (mg/L)	**GWC-16**	**0.006759**	**158**	**90**	**Yes**	**26**	**0**	**n/a**	**0.05**	**NP**
Molybdenum (mg/L)	**GWB-4R**	**0.01753**	**102**	**66**	**Yes**	**21**	**0**	**n/a**	**0.05**	**NP**

Appendix II & IV - Trend Test Summary - All Results

Grumman Road Landfill Client: Southern Company Data: Grumman Road Landfill Printed 12/13/2024, 1:59 PM

Constituent	Well	Slope	Calc.	Critical	Sig.	N	%NDs	Normality	Alpha	Method
Arsenic (mg/L)	**GWA-7 (bg)**	**-0.0008321**	**-93**	**-85**	**Yes**	**25**	**24**	**n/a**	**0.05**	**NP**
Arsenic (mg/L)	GWA-8 (bg)	0	35	90	No	26	73.08	n/a	0.05	NP
Arsenic (mg/L)	**GWC-15**	**0.03066**	**218**	**85**	**Yes**	**25**	**0**	**n/a**	**0.05**	**NP**
Arsenic (mg/L)	**GWC-16**	**0.006759**	**158**	**90**	**Yes**	**26**	**0**	**n/a**	**0.05**	**NP**
Arsenic (mg/L)	GWC-20	0.01213	64	85	No	25	0	n/a	0.05	NP
Molybdenum (mg/L)	GWA-7 (bg)	0	-53	-66	No	21	61.9	n/a	0.05	NP
Molybdenum (mg/L)	GWA-8 (bg)	0	0	66	No	21	100	n/a	0.05	NP
Molybdenum (mg/L)	**GWB-4R**	**0.01753**	**102**	**66**	**Yes**	**21**	**0**	**n/a**	**0.05**	**NP**
Molybdenum (mg/L)	GWC-16	0.001239	15	66	No	21	0	n/a	0.05	NP
Molybdenum (mg/L)	GWC-20	0.02667	32	66	No	21	0	n/a	0.05	NP

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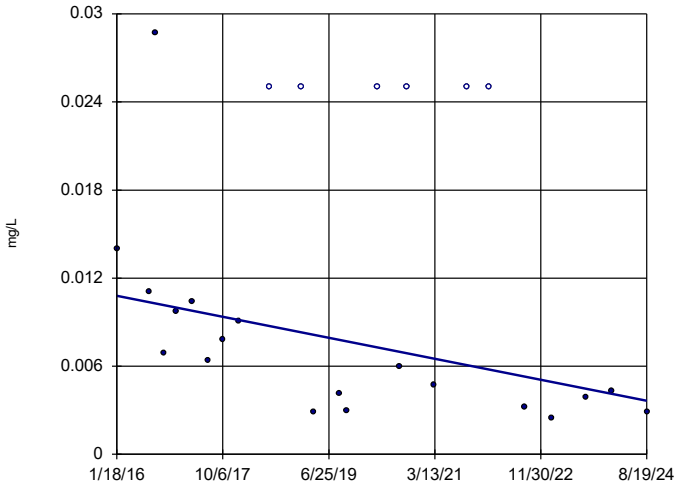
Hollow symbols indicate censored values.

Sen's Slope Estimator

GWA-7 (bg)



n = 25

Slope = -0.0008321 units per year.

Mann-Kendall statistic = -93
critical = -85

Decreasing trend significant at 95% confidence level (α = 0.025 per tail).

Constituent: Arsenic Analysis Run 12/13/2024 1:58 PM View: Appendix IV - Trend Tests
Grumman Road Landfill Client: Southern Company Data: Grumman Road Landfill

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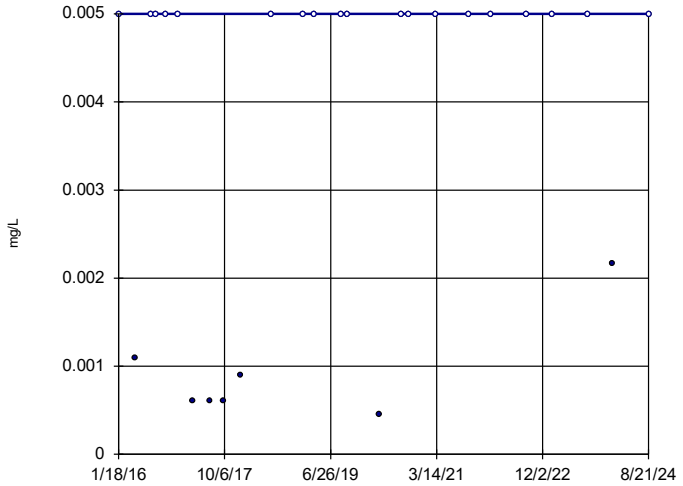
Hollow symbols indicate censored values.

Sen's Slope Estimator

GWA-8 (bg)



n = 26

Slope = 0 units per year.

Mann-Kendall statistic = 35
critical = 90

Trend not significant at 95% confidence level (α = 0.025 per tail).

Constituent: Arsenic Analysis Run 12/13/2024 1:58 PM View: Appendix IV - Trend Tests
Grumman Road Landfill Client: Southern Company Data: Grumman Road Landfill

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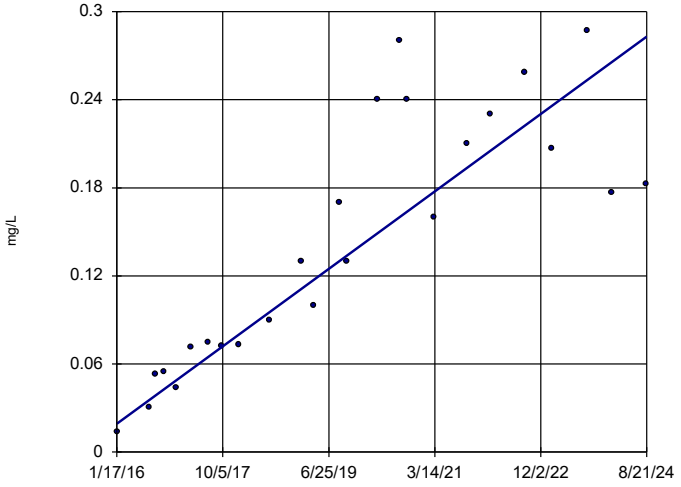
Sen's Slope Estimator

GWC-15



n = 25

Slope = 0.03066 units per year.

Mann-Kendall statistic = 218
critical = 85

Increasing trend significant at 95% confidence level (α = 0.025 per tail).

Constituent: Arsenic Analysis Run 12/13/2024 1:58 PM View: Appendix IV - Trend Tests
Grumman Road Landfill Client: Southern Company Data: Grumman Road Landfill

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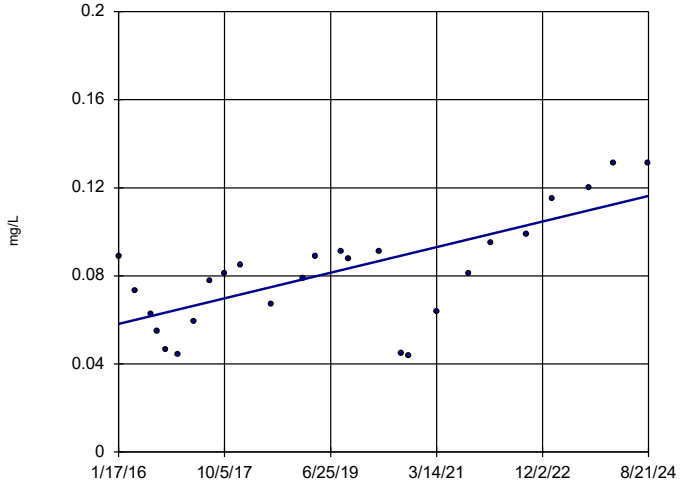
Sen's Slope Estimator

GWC-16



n = 26

Slope = 0.006759 units per year.

Mann-Kendall statistic = 158
critical = 90

Increasing trend significant at 95% confidence level (α = 0.025 per tail).

Constituent: Arsenic Analysis Run 12/13/2024 1:58 PM View: Appendix IV - Trend Tests
Grumman Road Landfill Client: Southern Company Data: Grumman Road Landfill

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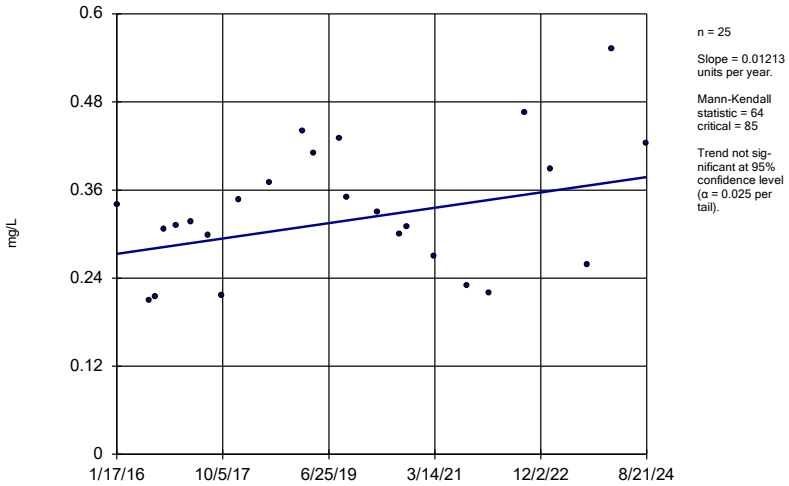
Sen's Slope Estimator

GWC-20



n = 25

Slope = 0.01213 units per year.

Mann-Kendall statistic = 64 critical = 85

Trend not significant at 95% confidence level (α = 0.025 per tail).

Constituent: Arsenic Analysis Run 12/13/2024 1:58 PM View: Appendix IV - Trend Tests

Grumman Road Landfill Client: Southern Company Data: Grumman Road Landfill

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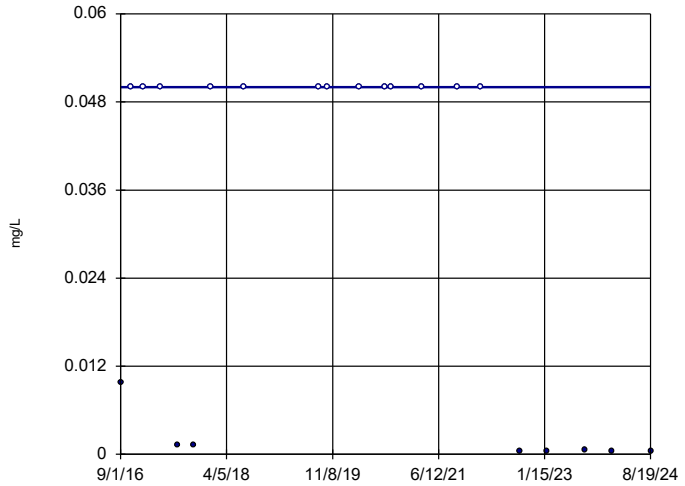
Hollow symbols indicate censored values.

Sen's Slope Estimator

GWA-7 (bg)



n = 21

Slope = 0 units per year.

Mann-Kendall statistic = -53 critical = -66

Trend not significant at 95% confidence level (α = 0.025 per tail).

Constituent: Molybdenum Analysis Run 12/13/2024 1:58 PM View: Appendix IV - Trend Tests

Grumman Road Landfill Client: Southern Company Data: Grumman Road Landfill

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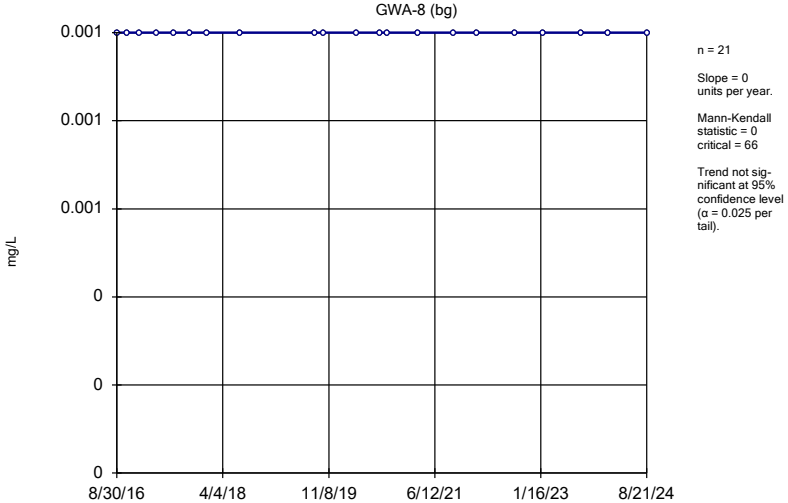
Hollow symbols indicate censored values.

Sen's Slope Estimator

GWA-8 (bg)



n = 21

Slope = 0 units per year.

Mann-Kendall statistic = 0 critical = 66

Trend not significant at 95% confidence level (α = 0.025 per tail).

Constituent: Molybdenum Analysis Run 12/13/2024 1:58 PM View: Appendix IV - Trend Tests

Grumman Road Landfill Client: Southern Company Data: Grumman Road Landfill

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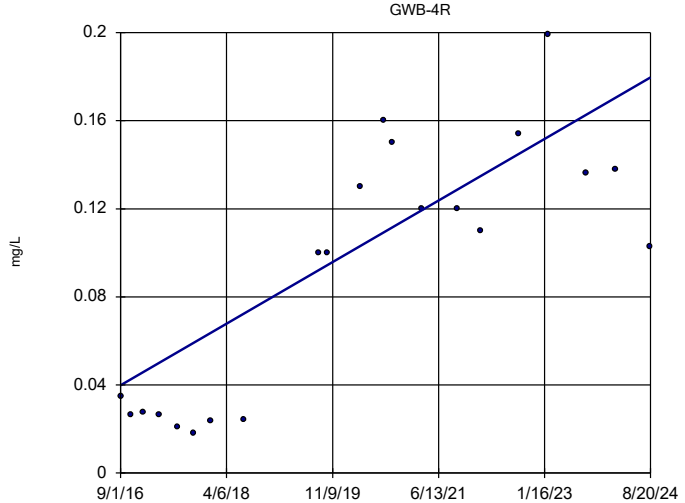
Sen's Slope Estimator

GWB-4R



n = 21

Slope = 0.01753 units per year.

Mann-Kendall statistic = 102 critical = 66

Increasing trend significant at 95% confidence level (α = 0.025 per tail).

Constituent: Molybdenum Analysis Run 12/13/2024 1:58 PM View: Appendix IV - Trend Tests

Grumman Road Landfill Client: Southern Company Data: Grumman Road Landfill

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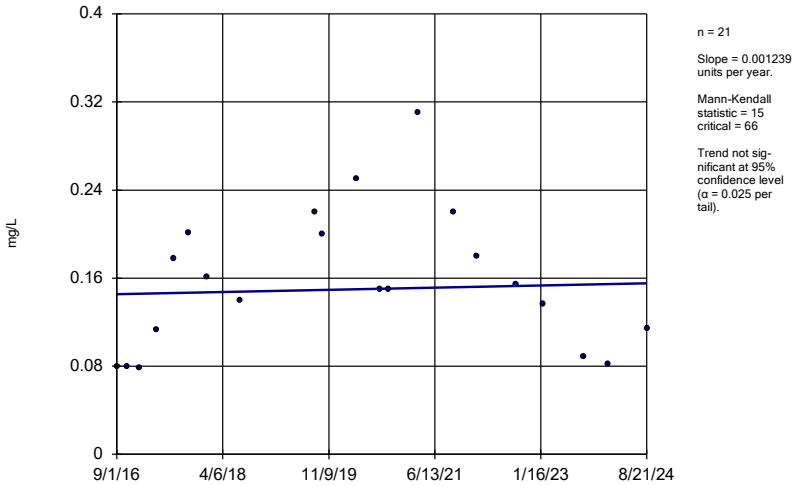
Sen's Slope Estimator

GWC-16



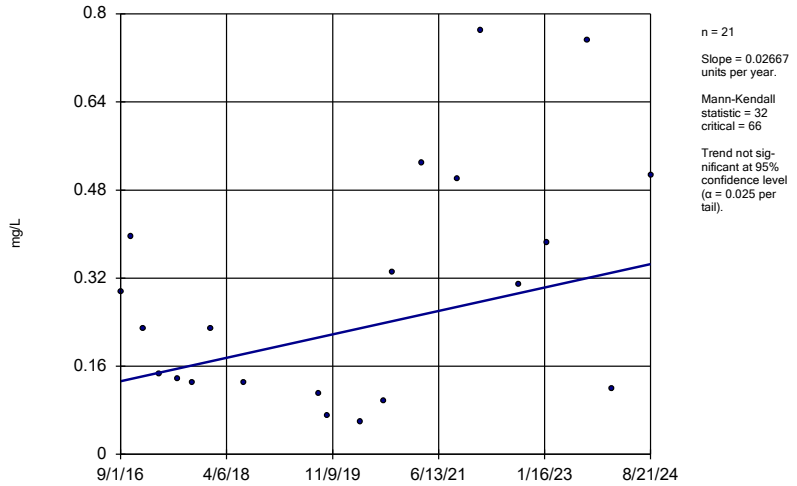
Constituent: Molybdenum Analysis Run 12/13/2024 1:58 PM View: Appendix IV - Trend Tests

Grumman Road Landfill Client: Southern Company Data: Grumman Road Landfill

Sanitas™ v.10.0.23a Software licensed to Groundwater Stats Consulting. UG

Sen's Slope Estimator

GWC-20



Constituent: Molybdenum Analysis Run 12/13/2024 1:58 PM View: Appendix IV - Trend Tests

Grumman Road Landfill Client: Southern Company Data: Grumman Road Landfill

APPENDIX C

Potable Well Survey

Grumman Road Private Industrial Landfill
Chatham County, Georgia
2024 Semiannual Groundwater Monitoring and Corrective Action Report

Grumman Road Landfill
135 Gulfstream Road
Savannah, GA 31408

Inquiry Number: 7862778.1s
January 06, 2025

The EDR GeoCheck® Report

6 Armstrong Road, 4th floor
Shelton, CT 06484
Toll Free: 800.352.0050
www.edrnet.com

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Thank you for your business.
Please contact EDR at 1-800-352-0050
with any questions or comments.

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GEOCHECK® - PHYSICAL SETTING SOURCE REPORT

TARGET PROPERTY ADDRESS

GRUMMAN ROAD LANDFILL
135 GULFSTREAM ROAD
SAVANNAH, GA 31408

TARGET PROPERTY COORDINATES

Latitude (North):	32.142978 - 32° 8' 34.72''
Longitude (West):	81.184041 - 81° 11' 2.55''
Universal Tranverse Mercator:	Zone 17
UTM X (Meters):	482643.0
UTM Y (Meters):	3556110.5
Elevation:	41 ft. above sea level

USGS TOPOGRAPHIC MAP

Target Property Map:	32081-B2 PORT WENTWORTH, GA SC
Version Date:	1998

EDR's GeoCheck Physical Setting Source Addendum is provided to assist the environmental professional in forming an opinion about the impact of potential contaminant migration.

Assessment of the impact of contaminant migration generally has two principle investigative components:

1. Groundwater flow direction, and
2. Groundwater flow velocity.

Groundwater flow direction may be impacted by surface topography, hydrology, hydrogeology, characteristics of the soil, and nearby wells. Groundwater flow velocity is generally impacted by the nature of the geologic strata.

GEOCHECK® - PHYSICAL SETTING SOURCE SUMMARY

GROUNDWATER FLOW DIRECTION INFORMATION

Groundwater flow direction for a particular site is best determined by a qualified environmental professional using site-specific well data. If such data is not reasonably ascertainable, it may be necessary to rely on other sources of information, such as surface topographic information, hydrologic information, hydrogeologic data collected on nearby properties, and regional groundwater flow information (from deep aquifers).

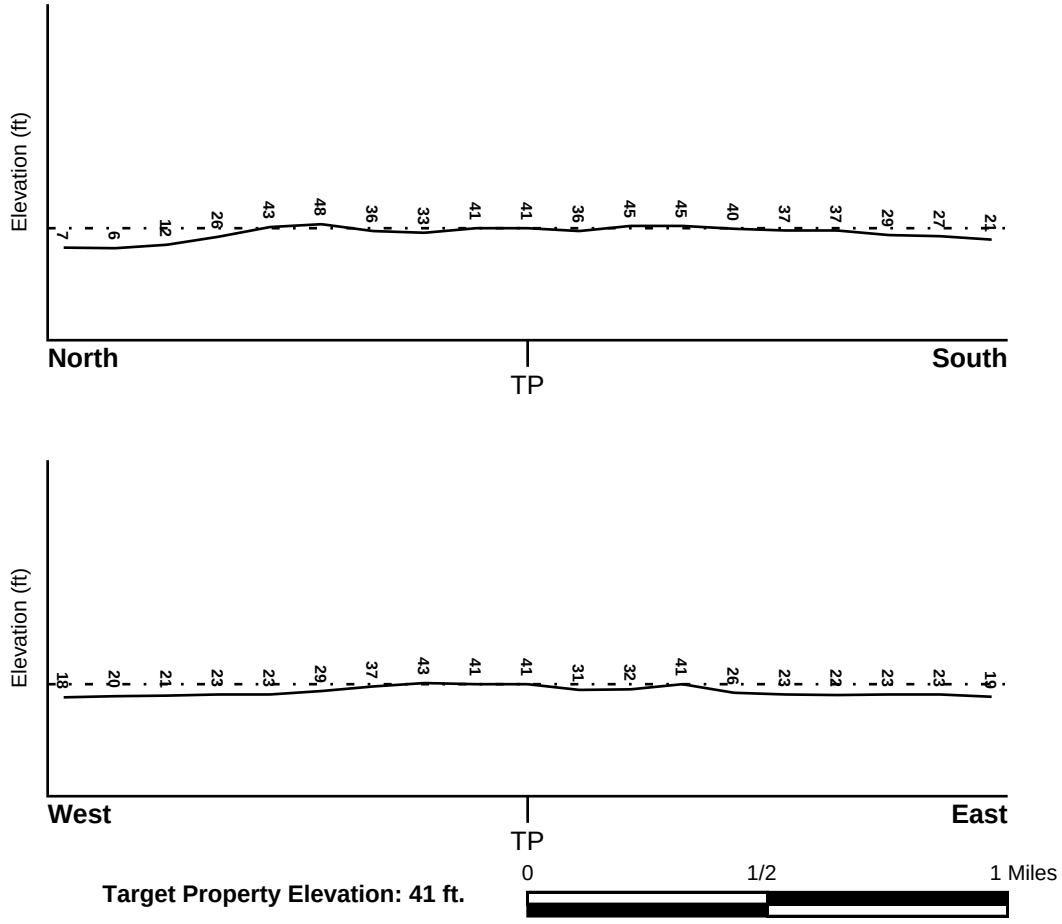
TOPOGRAPHIC INFORMATION

Surface topography may be indicative of the direction of surficial groundwater flow. This information can be used to assist the environmental professional in forming an opinion about the impact of nearby contaminated properties or, should contamination exist on the target property, what downgradient sites might be impacted.

TARGET PROPERTY TOPOGRAPHY

General Topographic Gradient: General NNE

SURROUNDING TOPOGRAPHY: ELEVATION PROFILES



Target Property Elevation: 41 ft.

Source: Topography has been determined from the USGS 7.5' Digital Elevation Model and should be evaluated on a relative (not an absolute) basis. Relative elevation information between sites of close proximity should be field verified.

GEOCHECK® - PHYSICAL SETTING SOURCE SUMMARY

HYDROLOGIC INFORMATION

Surface water can act as a hydrologic barrier to groundwater flow. Such hydrologic information can be used to assist the environmental professional in forming an opinion about the impact of nearby contaminated properties or, should contamination exist on the target property, what downgradient sites might be impacted.

Refer to the Physical Setting Source Map following this summary for hydrologic information (major waterways and bodies of water).

FEMA FLOOD ZONE

Flood Plain Panel at Target Property	FEMA Source Type
13051C0045F	FEMA FIRM Flood data

Additional Panels in search area:	FEMA Source Type
13051C0040G	FEMA FIRM Flood data
13051C0127G	FEMA FIRM Flood data
13051C0135G	FEMA FIRM Flood data

NATIONAL WETLAND INVENTORY

NWI Quad at Target Property	NWI Electronic Data Coverage
PORT WENTWORTH	YES - refer to the Overview Map and Detail Map

HYDROGEOLOGIC INFORMATION

Hydrogeologic information obtained by installation of wells on a specific site can often be an indicator of groundwater flow direction in the immediate area. Such hydrogeologic information can be used to assist the environmental professional in forming an opinion about the impact of nearby contaminated properties or, should contamination exist on the target property, what downgradient sites might be impacted.

AQUIFLOW®

Search Radius: 1.000 Mile.

EDR has developed the AQUIFLOW Information System to provide data on the general direction of groundwater flow at specific points. EDR has reviewed reports submitted by environmental professionals to regulatory authorities at select sites and has extracted the date of the report, groundwater flow direction as determined hydrogeologically, and the depth to water table.

MAP ID	LOCATION FROM TP	GENERAL DIRECTION GROUNDWATER FLOW
B5	1/2 - 1 Mile NW	E
B6	1/2 - 1 Mile NW	WNW
B7	1/2 - 1 Mile NW	Not Reported
B8	1/2 - 1 Mile NW	Varies

For additional site information, refer to Physical Setting Source Map Findings.

GEOCHECK® - PHYSICAL SETTING SOURCE SUMMARY

GROUNDWATER FLOW VELOCITY INFORMATION

Groundwater flow velocity information for a particular site is best determined by a qualified environmental professional using site specific geologic and soil strata data. If such data are not reasonably ascertainable, it may be necessary to rely on other sources of information, including geologic age identification, rock stratigraphic unit and soil characteristics data collected on nearby properties and regional soil information. In general, contaminant plumes move more quickly through sandy-gravelly types of soils than silty-clayey types of soils.

GEOLOGIC INFORMATION IN GENERAL AREA OF TARGET PROPERTY

Geologic information can be used by the environmental professional in forming an opinion about the relative speed at which contaminant migration may be occurring.

ROCK STRATIGRAPHIC UNIT

Era:	Cenozoic
System:	Quaternary
Series:	Holocene
Code:	Qh *(decoded above as Era, System & Series)*

GEOLOGIC AGE IDENTIFICATION

Category: Stratifed Sequence

Geologic Age and Rock Stratigraphic Unit Source: P.G. Schruben, R.E. Arndt and W.J. Bawiec, Geology of the Conterminous U.S. at 1:2,500,000 Scale - a digital representation of the 1974 P.B. King and H.M. Beikman Map, USGS Digital Data Series DDS - 11 (1994).

DOMINANT SOIL COMPOSITION IN GENERAL AREA OF TARGET PROPERTY

The U.S. Department of Agriculture's (USDA) Soil Conservation Service (SCS) leads the National Cooperative Soil Survey (NCSS) and is responsible for collecting, storing, maintaining and distributing soil survey information for privately owned lands in the United States. A soil map in a soil survey is a representation of soil patterns in a landscape. Soil maps for STATSGO are compiled by generalizing more detailed (SSURGO) soil survey maps. The following information is based on Soil Conservation Service STATSGO data.

Soil Component Name:	MANDARIN
Soil Surface Texture:	fine sand
Hydrologic Group:	Class C - Slow infiltration rates. Soils with layers impeding downward movement of water, or soils with moderately fine or fine textures.
Soil Drainage Class:	Somewhat poorly. Soils commonly have a layer with low hydraulic conductivity, wet state high in profile, etc. Depth to water table is 1 to 3 feet.

Hydric Status: Soil does not meet the requirements for a hydric soil.

Corrosion Potential - Uncoated Steel:	MODERATE
Depth to Bedrock Min:	> 60 inches
Depth to Bedrock Max:	> 60 inches

GEOCHECK® - PHYSICAL SETTING SOURCE SUMMARY

Soil Layer Information							
	Boundary			Classification			
Layer	Upper	Lower	Soil Texture Class	AASHTO Group	Unified Soil	Permeability Rate (in/hr)	Soil Reaction (pH)
1	0 inches	26 inches	fine sand	Granular materials (35 pct. or less passing No. 200), Fine Sand.	COARSE-GRAINED SOILS, Sands, Clean Sands, Poorly graded sand.	Max: 20.00 Min: 6.00	Max: 6.00 Min: 3.60
2	26 inches	40 inches	fine sand	Granular materials (35 pct. or less passing No. 200), Fine Sand.	COARSE-GRAINED SOILS, Sands, Clean Sands, Poorly graded sand. COARSE-GRAINED SOILS, Sands, Sands with fines, Silty Sand.	Max: 2.00 Min: 0.60	Max: 6.00 Min: 3.60
3	40 inches	73 inches	fine sand	Granular materials (35 pct. or less passing No. 200), Fine Sand.	COARSE-GRAINED SOILS, Sands, Clean Sands, Poorly graded sand.	Max: 20.00 Min: 6.00	Max: 7.30 Min: 3.60
4	73 inches	80 inches	fine sand	Granular materials (35 pct. or less passing No. 200), Fine Sand.	COARSE-GRAINED SOILS, Sands, Clean Sands, Poorly graded sand.	Max: 2.00 Min: 0.60	Max: 7.30 Min: 3.60

OTHER SOIL TYPES IN AREA

Based on Soil Conservation Service STATSGO data, the following additional subordinant soil types may appear within the general area of target property.

Soil Surface Textures: sand

Surficial Soil Types: sand

Shallow Soil Types: No Other Soil Types

Deeper Soil Types: sand

LOCAL / REGIONAL WATER AGENCY RECORDS

EDR Local/Regional Water Agency records provide water well information to assist the environmental professional in assessing sources that may impact ground water flow direction, and in forming an opinion about the impact of contaminant migration on nearby drinking water wells.

GEOCHECK® - PHYSICAL SETTING SOURCE SUMMARY

WELL SEARCH DISTANCE INFORMATION

DATABASE	SEARCH DISTANCE (miles)
Federal USGS	2.000
Federal FRDS PWS	2.000
State Database	2.000

FEDERAL USGS WELL INFORMATION

MAP ID	WELL ID	LOCATION FROM TP
A3	USGS40000259556	1/2 - 1 Mile South
C9	USGS40000259548	1 - 2 Miles South
E13	USGS40000259536	1 - 2 Miles SSW
F17	USGS40000259566	1 - 2 Miles WSW
E20	USGS40000259535	1 - 2 Miles SSW
D21	USGS40000259654	1 - 2 Miles NNE
G22	USGS40000259637	1 - 2 Miles NE
G26	USGS40000259634	1 - 2 Miles NE
G29	USGS40000259635	1 - 2 Miles NE
H31	USGS40000259658	1 - 2 Miles North
I33	USGS40000259537	1 - 2 Miles SE
H34	USGS40000259661	1 - 2 Miles North
J35	USGS40000259527	1 - 2 Miles SSW
J37	USGS40000259528	1 - 2 Miles SSW
J41	USGS40000259520	1 - 2 Miles SSW
43	USGS40000259664	1 - 2 Miles North

FEDERAL FRDS PUBLIC WATER SUPPLY SYSTEM INFORMATION

MAP ID	WELL ID	LOCATION FROM TP
4	GA0510057	1/2 - 1 Mile ESE
11	GA0510268	1 - 2 Miles ENE
D12	GA0510020	1 - 2 Miles NNE
E15	GA0510102	1 - 2 Miles SSW
D18	GA0510019	1 - 2 Miles NNE
G28	GA0510002	1 - 2 Miles ENE
G30	GA0510002	1 - 2 Miles ENE
H32	GA0510136	1 - 2 Miles North
H38	GA0510137	1 - 2 Miles North
I39	GA0510162	1 - 2 Miles SE
J40	GA0510102	1 - 2 Miles SSW
K45	GA0510102	1 - 2 Miles SSW

Note: PWS System location is not always the same as well location.

STATE DATABASE WELL INFORMATION

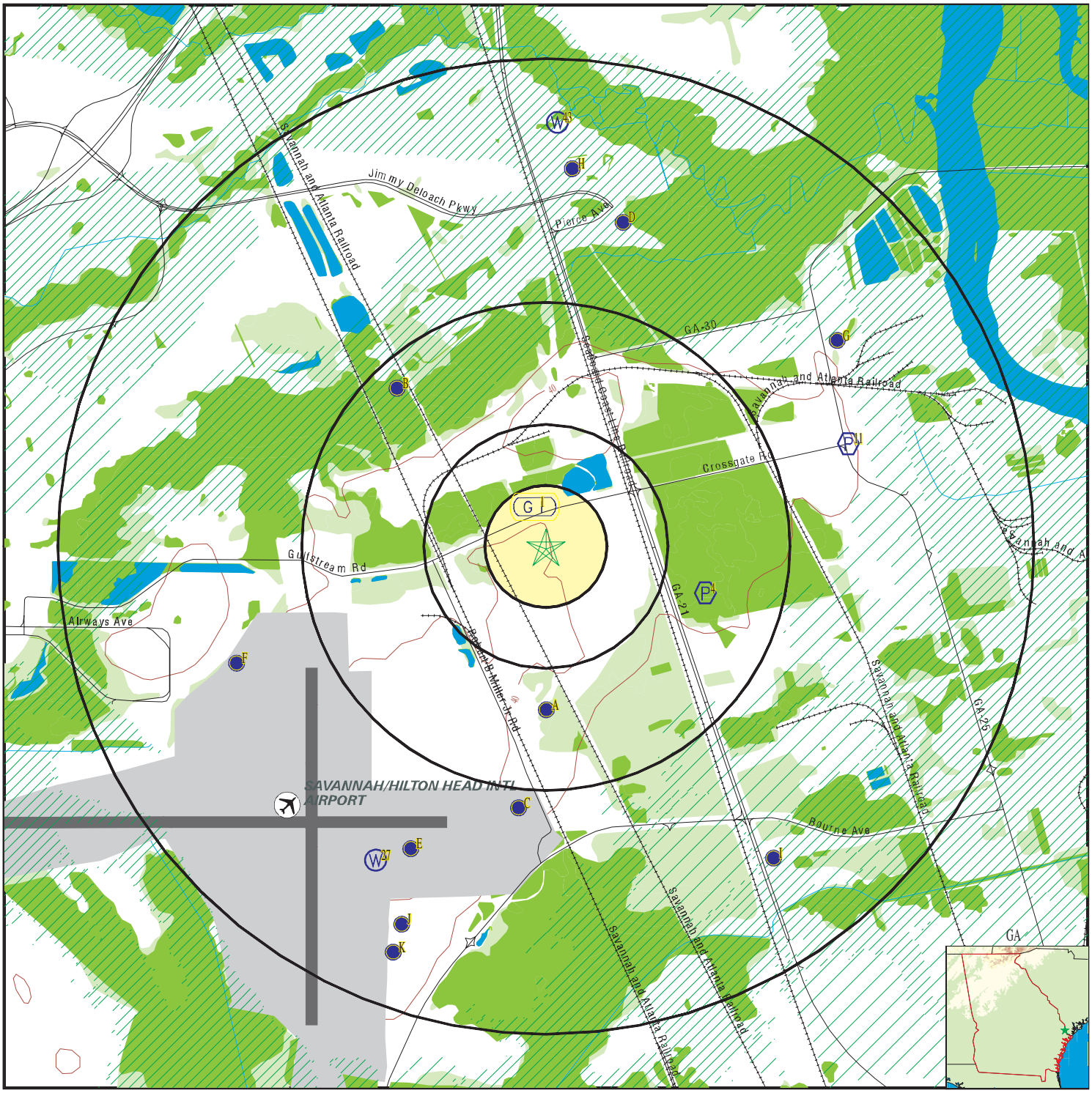
MAP ID	WELL ID	LOCATION FROM TP

GEOCHECK® - PHYSICAL SETTING SOURCE SUMMARY

STATE DATABASE WELL INFORMATION

MAP ID	WELL ID	LOCATION FROM TP
A2	0000001906	1/2 - 1 Mile South
C10	0000001904	1 - 2 Miles South
E14	0000001901	1 - 2 Miles SSW
F16	0000001908	1 - 2 Miles WSW
E19	614	1 - 2 Miles SSW
G23	0000001919	1 - 2 Miles NE
G24	612	1 - 2 Miles NE
G25	0000001918	1 - 2 Miles NE
27	615	1 - 2 Miles SSW
J36	0000001899	1 - 2 Miles SSW
J42	0000001897	1 - 2 Miles SSW
K44	617	1 - 2 Miles SSW

PHYSICAL SETTING SOURCE MAP - 7862778.1s



- County Boundary
- Major Roads
- Contour Lines
- Airports
- Earthquake epicenter, Richter 5 or greater
- Water Wells
- Public Water Supply Wells
- Cluster of Multiple Icons
- Groundwater Flow Direction
- Indeterminate Groundwater Flow at Location
- Groundwater Flow Varies at Location
- 100-year flood zone
- 500-year flood zone
- National Wetland Inventory
- Wildlife Areas

SITE NAME:	Grumman Road Landfill	CLIENT:	ANCHOR QEA, LLC
ADDRESS:	135 Gulfstream Road Savannah GA 31408	CONTACT:	Joe Smith
LAT/LONG:	32.142978 / 81.184041	INQUIRY #:	7862778.1s
		DATE:	January 06, 2025 3:15 pm

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GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Map ID
Direction
Distance
Elevation

Database | EDR ID Number

1
NNW
1/8 - 1/4 Mile
Lower

AQUIFLOW **11620**

Site ID:	9000518
Groundwater Flow:	NOT REPORTED
Shallow Water Depth:	6
Deep Water Depth:	9
Average Water Depth:	Not Reported
Date:	10-23-90

A2
South
1/2 - 1 Mile
Lower

GA WELLS **0000001906**

County code:	051	Well num:	36R006
Remarks:	PORT WENTWORTH CORP 1	Lat:	320759
Lon:	0811103	Latlon datum:	NAD27
Alt:	40.00	Alt datum:	NGVD29
Depth:	1088	Depth to casing:	270.00
Casing dia:	10.00	Casing matl:	Not Reported
Depth to top:	271.00	Depth to bot:	1088.00
Opening type:	X	Constr date:	195610
Discharge:	Not Reported	Prim use:	C
Aquifer code:	120FLRD	Edr id:	0000001906

A3
South
1/2 - 1 Mile
Lower

FED USGS **USGS40000259556**

Organization ID:	USGS-GA	Organization Name:	USGS Georgia Water Science Center
Monitor Location:	36R006	Type:	Well
Description:	PORT WENTWORTH CORP 1	HUC:	03060109
Drainage Area:	Not Reported	Drainage Area Units:	Not Reported
Contrib Drainage Area:	Not Reported	Contrib Drainage Area Unts:	Not Reported
Aquifer:	Floridan aquifer system	Formation Type:	Floridan Aquifer System
Aquifer Type:	Confined multiple aquifer	Construction Date:	19561001
Well Depth:	1088	Well Depth Units:	ft
Well Hole Depth:	1089	Well Hole Depth Units:	ft

4
ESE
1/2 - 1 Mile
Lower

FRDS PWS **GA0510057**

Epa region:	04	State:	GA
Pwsid:	GA0510057	Pwsname:	WOODLAWN TERRACE
Cityserved:	Not Reported	Stateserved:	GA
Zipserved:	Not Reported	Fipscounty:	13025
Status:	Closed	Retpopsrvd:	730
Pwssvcconn:	210	Psource longname:	Groundwater
Pwstype:	CWS	Owner:	unknown
Contact:	WOODLAWN TERRACE	Contactorgname:	Not Reported
Contactphone:	912-964-1711	Contactaddress1:	Not Reported
Contactaddress2:	96 MAIN ST.	Contactcity:	GARDEN
Contactstate:	GA	Contactzip:	31408
Pwsactivitycode:	I		

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Pwsid:	GA0510057	Facid:	1T
Facname:	06DW00000000000	Factype:	Treatment_plant
Facactivitycode:	I	Trtobjective:	disinfection
Trtprocess:	chlorination (frds-1.5)	Factypecode:	TP
Pwsid:	GA0510057	Facid:	2T
Facname:	00DW00000000000	Factype:	Treatment_plant
Facactivitycode:	I	Trtobjective:	disinfection
Trtprocess:	chlorination (frds-1.5)	Factypecode:	TP
PWS ID:	GA0510057	PWS type:	Not Reported
PWS name:	Not Reported	PWS address:	Not Reported
PWS city:	Not Reported	PWS state:	Not Reported
PWS zip:	Not Reported	PWS ID:	GA0510057
Activity status:	Active	Date system activated:	7706
Date system deactivated:	Not Reported	Retail population:	00000730
System name:	WOODLAWN TERRACE	System address:	Not Reported
System address:	96 MAIN ST.	System city:	GARDEN
System state:	GA	System zip:	31408
County FIPS:	025	City served:	SAVANNAH GEORGI
Population served:	501 - 1,000 Persons	Treatment:	Treated
Latitude:	320534	Longitude:	0811023
Latitude:	320824	Longitude:	0811023

B5
NW
1/2 - 1 Mile
Lower

Site ID:	9-025076
Groundwater Flow:	E
Shallow Water Depth:	7 FT.
Deep Water Depth:	8 FT.
Average Water Depth:	Not Reported
Date:	FEB. 29, 1996

AQUIFLOW **11615**

B6
NW
1/2 - 1 Mile
Lower

Site ID:	9-025152
Groundwater Flow:	WNW
Shallow Water Depth:	2.5 FT
Deep Water Depth:	5 FT.
Average Water Depth:	Not Reported
Date:	AUGUST 29, 1994

AQUIFLOW **11616**

B7
NW
1/2 - 1 Mile
Lower

Site ID:	4250162
Groundwater Flow:	Not Reported
Shallow Water Depth:	15
Deep Water Depth:	18
Average Water Depth:	Not Reported
Date:	12

AQUIFLOW **19243**

B8
NW
1/2 - 1 Mile
Lower

Site ID:	4250096
Groundwater Flow:	Varies
Shallow Water Depth:	3.5
Deep Water Depth:	13.14
Average Water Depth:	Not Reported
Date:	Not Reported

AQUIFLOW **19071**

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Map ID
Direction
Distance
Elevation | Database | EDR ID Number

C9
South
1 - 2 Miles
Lower

FED USGS **USGS40000259548**

Organization ID:	USGS-GA	Organization Name:	USGS Georgia Water Science Center
Monitor Location:	36R009	Type:	Well
Description:	CHEROKEE OIL TW	HUC:	03060109
Drainage Area:	Not Reported	Drainage Area Units:	Not Reported
Contrib Drainage Area:	Not Reported	Contrib Drainage Area Unts:	Not Reported
Aquifer:	Not Reported	Formation Type:	Not Reported
Aquifer Type:	Not Reported	Construction Date:	19200101
Well Depth:	2150	Well Depth Units:	ft
Well Hole Depth:	2150	Well Hole Depth Units:	ft

C10
South
1 - 2 Miles
Lower

GA WELLS **0000001904**

County code:	051	Well num:	36R009
Remarks:	CHEROKEE OIL TW	Lat:	320738
Lon:	0811110	Latlon datum:	NAD27
Alt:	21.50	Alt datum:	NGVD29
Depth:	2150	Depth to casing:	2126.00
Casing dia:	8.00	Casing matl:	Not Reported
Depth to top:	2126	Depth to bot:	2150
Opening type:	X	Constr date:	1920
Discharge:	Not Reported	Prim use:	U
Aquifer code:	Not Reported	Edr id:	0000001904

11
ENE
1 - 2 Miles
Lower

FRDS PWS **GA0510268**

Epa region:	04	State:	GA
Pwsid:	GA0510268	Pwsname:	GA PACIFIC- GA STEAMSHIP CO.
Cityserved:	Not Reported	Stateserved:	GA
Zipserved:	Not Reported	Fipscounty:	13051
Status:	Closed	Retpopsrvd:	70
Pwssvcconn:	1	Psource longname:	Groundwater
Pwstype:	NTNCWS	Owner:	Private
Contact:	GA PACIFIC- GA STEAMSHIP CO.		
Contactorgname:	Not Reported	Contactphone:	Not Reported
Contactaddress1:	Not Reported	Contactaddress2:	Not Reported
Contactcity:	Not Reported	Contactstate:	Not Reported
Contactzip:	Not Reported	Pwsactivitycode:	I
PWS ID:	GA0510268	PWS type:	Not Reported
PWS name:	Not Reported	PWS address:	Not Reported
PWS city:	Not Reported	PWS state:	Not Reported
PWS zip:	Not Reported	PWS ID:	GA0510268
Activity status:	Active	Date system activated:	Not Reported
Date system deactivated:	Not Reported	Retail population:	00000070
System name:	GA PACIFIC- GA STEAMSHIP CO.		
System address:	GA PACIFIC-GA STEAMSHIP CO.		

System address:	4226 CROSSGATE RD	System city:	PORT WENTWORTH
System state:	GA	System zip:	31407
Population served:	Under 101 Persons	Treatment:	Untreated
Latitude:	320856	Longitude:	0810947
Latitude:	315902	Longitude:	0810657

D12
NNE
1 - 2 Miles
Lower

FRDS PWS GA0510020

Epa region:	04	State:	GA
Pwsid:	GA0510020	Pwsname:	COLLUMS TRAILER PARK
Cityserved:	Not Reported	Stateserved:	GA
Zipserved:	Not Reported	Fipscounty:	13051
Status:	Closed	Retpopsrvd:	112
Pwssvcconn:	32	Psource longname:	Groundwater
Pwstype:	CWS	Owner:	Private
Contact:	COLLUM, LOIS	Contactorgname:	Not Reported
Contactphone:	912-964-6163	Contactaddress1:	10 DIXIE STREET
Contactaddress2:	Not Reported	Contactcity:	PORT WENTWORTH
Contactstate:	GA	Contactzip:	31407
Pwsactivitycode:	I		
PWS ID:	GA0510020	PWS type:	Not Reported
PWS name:	Not Reported	PWS address:	Not Reported
PWS city:	Not Reported	PWS state:	Not Reported
PWS zip:	Not Reported	PWS ID:	GA0510020
Activity status:	Active	Date system activated:	Not Reported
Date system deactivated:	Not Reported	Retail population:	00000112
System name:	COLLUMS TRAILER PARK	System address:	COLLUMS TRAILER PARK
System address:	10 DIXIE STREET	System city:	PORT WENTWORTH
System state:	GA	System zip:	31407
Population served:	101 - 500 Persons	Treatment:	Untreated
Latitude:	320941	Longitude:	0811042
State:	GA	Latitude degrees:	32
Latitude minutes:	9	Latitude seconds:	41.0000
Longitude degrees:	81	Longitude minutes:	10
Longitude seconds:	42.0000		

PWS currently has or had major violation(s) or enforcement:Yes

Violation ID:	9200002	Violation source ID:	Not Reported
PWS telephone:	Not Reported	Contaminant:	Coliform (Tcr)
Violation type:	Monitoring, Routine Major (TCR)		
Violation start date:	090192	Violation end date:	093092
Violation period (months):	001	Violation awareness date:	Not Reported
Major violator:	Yes	Maximum contaminant level:	Not Reported
Number of required samples:	Not Reported	Number of samples taken:	Not Reported
Analysis method:	Not Reported	Analysis result:	Not Reported

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Map ID
Direction
Distance
Elevation | Database | EDR ID Number

E13
SSW
1 - 2 Miles
Higher

FED USGS **USGS40000259536**

Organization ID:	USGS-GA	Organization Name:	USGS Georgia Water Science Center
Monitor Location:	36Q014	Type:	Well
Description:	SAVANNAH, GA 19	HUC:	03060109
Drainage Area:	Not Reported	Drainage Area Units:	Not Reported
Contrib Drainage Area:	Not Reported	Contrib Drainage Area Unts:	Not Reported
Aquifer:	Floridan aquifer system	Formation Type:	Upper Floridan Aquifer
Aquifer Type:	Confined multiple aquifer	Construction Date:	19450101
Well Depth:	680	Well Depth Units:	ft
Well Hole Depth:	680	Well Hole Depth Units:	ft

Ground water levels,Number of Measurements:	9	Level reading date:	2000-09-08
Feet below surface:	101.88	Feet to sea level:	Not Reported
Note:	Not Reported		
Level reading date:	1998-05-25	Feet below surface:	98.70
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1985-05-21	Feet below surface:	125.77
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1984-11-20	Feet below surface:	102.68
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1984-10-31	Feet below surface:	105.32
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1984-04-30	Feet below surface:	102.12
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1983-11-04	Feet below surface:	90.42
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1983-05-03	Feet below surface:	96.70
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1982-11-02	Feet below surface:	99.62
Feet to sea level:	Not Reported	Note:	Not Reported

E14
SSW
1 - 2 Miles
Higher

GA WELLS **0000001901**

County code:	051	Well num:	36Q014
Remarks:	SAVANNAH, GA 19	Lat:	320729
Lon:	0811134	Latlon datum:	NAD27
Alt:	45.06	Alt datum:	NGVD29
Depth:	680	Depth to casing:	250.00
Casing dia:	12.00	Casing matl:	Not Reported
Depth to top:	250.00	Depth to bot:	680.00
Opening type:	X	Constr date:	1945
Discharge:	Not Reported	Prim use:	P
Aquifer code:	120FLRDU	Edr id:	0000001901

Map ID
Direction
Distance
Elevation | Database | EDR ID Number

E15
SSW
1 - 2 Miles
Higher | **FRDS PWS** | **GA0510102**

Epa region:	04	State:	GA
Pwsid:	GA0510102	Pwsname:	SAVANNAH-TRAVIS FIELD
Cityserved:	Not Reported	Stateserved:	GA
Zipserved:	Not Reported	Fipscounty:	13051
Status:	Closed	Retpopsrvd:	304
Pwssvcconn:	117	Psource longname:	Groundwater
Pwstype:	CWS	Owner:	Local_Govt
Contact:	JUE, HARRY	Contactorgname:	Not Reported
Contactphone:	912-651-4241	Contactaddress1:	POB 1027
Contactaddress2:	Not Reported	Contactcity:	SAVANNAH
Contactstate:	GA	Contactzip:	314021027
Pwsactivitycode:	I		

Pwsid:	GA0510102	Facid:	3972
Facname:	WELL #17 PLANT	Factype:	Treatment_plant
Facactivitycode:	I	Trtobjective:	disinfection
Trtprocess:	hypochlorination, post	Factypecode:	TP

Pwsid:	GA0510102	Facid:	3979
Facname:	WELL #18 PLANT	Factype:	Treatment_plant
Facactivitycode:	I	Trtobjective:	disinfection
Trtprocess:	hypochlorination, post	Factypecode:	TP

Pwsid:	GA0510102	Facid:	3985
Facname:	WELL #19 PLANT	Factype:	Treatment_plant
Facactivitycode:	I	Trtobjective:	disinfection
Trtprocess:	hypochlorination, post	Factypecode:	TP

PWS ID:	GA0510102	PWS type:	Not Reported
PWS name:	Not Reported	PWS address:	Not Reported
PWS city:	Not Reported	PWS state:	Not Reported
PWS zip:	Not Reported	PWS ID:	GA0510102
Activity status:	Active	Date system activated:	Not Reported
Date system deactivated:	Not Reported	Retail population:	00001100
System name:	SAVANNAH-TRAVIS FIELD	System address:	SAVANNAH-TRAVIS FIELD
System address:	702 STILES AVE	System city:	SAVANNAH
System state:	GA	System zip:	31402

Population served:	1,001 - 2,500 Persons	Treatment:	Treated

Latitude:	320731	Longitude:	0811140

Latitude:	320705	Longitude:	0811140

Latitude:	320710	Longitude:	0811136

State:	GA	Latitude degrees:	32
Latitude minutes:	7	Latitude seconds:	5.0000
Longitude degrees:	81	Longitude minutes:	11
Longitude seconds:	40.0000		

State:	GA	Latitude degrees:	32
Latitude minutes:	7	Latitude seconds:	10.0000
Longitude degrees:	81	Longitude minutes:	11
Longitude seconds:	36.0000		

State:	GA	Latitude degrees:	32
Latitude minutes:	7	Latitude seconds:	31.0000
Longitude degrees:	81	Longitude minutes:	11
Longitude seconds:	40.0000		

F16
WSW **GA WELLS** **0000001908**
1 - 2 Miles
Lower

County code:	051	Well num:	36R041
Remarks:	VPI DOE 044 SAV AIRPORT	Lat:	320809
Lon:	0811221	Latlon datum:	NAD27
Alt:	20	Alt datum:	NGVD29
Depth:	1000	Depth to casing:	Not Reported
Casing dia:	Not Reported	Casing matl:	Not Reported
Depth to top:	Not Reported	Depth to bot:	Not Reported
Opening type:	Not Reported	Constr date:	19800810
Discharge:	Not Reported	Prim use:	U
Aquifer code:	Not Reported	Edr id:	0000001908

F17
WSW **FED USGS** **USGS40000259566**
1 - 2 Miles
Lower

Organization ID:	USGS-GA	Organization Name:	USGS Georgia Water Science Center
Monitor Location:	36R041	Type:	Well
Description:	VPI DOE 044 SAV AIRPORT	HUC:	03060109
Drainage Area:	Not Reported	Drainage Area Units:	Not Reported
Contrib Drainage Area:	Not Reported	Contrib Drainage Area Unts:	Not Reported
Aquifer:	Not Reported	Formation Type:	Not Reported
Aquifer Type:	Not Reported	Construction Date:	19800810
Well Depth:	1000	Well Depth Units:	ft
Well Hole Depth:	1000	Well Hole Depth Units:	ft

D18
NNE **FRDS PWS** **GA0510019**
1 - 2 Miles
Lower

Epa region:	04	State:	GA
Pwsid:	GA0510019	Pwsname:	CHEROKEE MOBILE HOME PARK
Cityserved:	Not Reported	Stateserved:	GA
Zipserved:	Not Reported	Fipscounty:	13051
Status:	Closed	Retpopsrvd:	88
Pwssvcconn:	33	Psource longname:	Groundwater
Pwstype:	CWS	Owner:	Private
Contact:	ROYAL, JAMES	Contactorgname:	Not Reported
Contactphone:	912-964-4270	Contactaddress1:	6500 HIGHWAY 21
Contactaddress2:	Not Reported	Contactcity:	PORT WENTWORTH
Contactstate:	GA	Contactzip:	31407
Pwsactivitycode:	I		

Pwsid:	GA0510019	Facid:	403
Facname:	WELL #1 PLANT	Factype:	Treatment_plant
Facactivitycode:	I	Trtobjective:	disinfection
Trtprocess:	hypochlorination, post	Factypecode:	TP

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

PWS ID:	GA0510019	PWS name:	CHEROKEE MOBILE HOME PARK
Address:	6500 HIGHWAY 21	Care of:	CHEROKEE MOBILE HOME PARK
City:	PORT WENTWORTH	State:	GA
Zip:	31407	Owner:	CHEROKEE MOBILE HOME PARK
Source code:	Ground water	Population:	88

PWS ID:	GA0510019	PWS type:	Not Reported
PWS name:	Not Reported	PWS address:	Not Reported
PWS city:	Not Reported	PWS state:	Not Reported
PWS zip:	Not Reported	County:	CHATHAM
Source:	Ground water	Treatment Objective:	DISINFECTION
Process:	HYPOCHLORINATION, POST	Population:	88

PWS ID:	GA0510019	Activity status:	Active
Date system activated:	Not Reported	Date system deactivated:	Not Reported
Retail population:	00000088	System name:	CHEROKEE MOBILE HOME PARK
System address:	CHEROKEE MOBILE HOME PARK	System address:	6500 HIGHWAY 21
System city:	PORT WENTWORTH	System state:	GA
System zip:	31407		

Population served:	Under 101 Persons	Treatment:	Treated

Latitude:	320944	Longitude:	0811045

State:	GA	Latitude degrees:	32
Latitude minutes:	9	Latitude seconds:	44.0000
Longitude degrees:	81	Longitude minutes:	10
Longitude seconds:	45.0000		

Violation id:	200	Orig code:	S
State:	GA	Violation Year:	1999
Contamination code:	7000	Contamination Name:	Consumer Confidence Rule
Violation code:	71	Violation name:	CCR Complete Failure to Report
Rule code:	420	Rule name:	CCR
Violation measur:	Not Reported	Unit of measure:	Not Reported
State mcl:	Not Reported	Cmp bdt:	10/19/1999
Cmp edt:	Not Reported		

Violation id:	30101	Orig code:	S
State:	GA	Violation Year:	2001
Contamination code:	7000	Contamination Name:	Consumer Confidence Rule
Violation code:	71	Violation name:	CCR Complete Failure to Report
Rule code:	420	Rule name:	CCR
Violation measur:	Not Reported	Unit of measure:	Not Reported
State mcl:	Not Reported	Cmp bdt:	07/01/2001
Cmp edt:	Not Reported		

Violation ID:	200	Orig Code:	S
Enforcemnt FY:	2001	Enforcement Action:	10/06/2000
Enforcement Detail:	St AO (w/penalty) issued	Enforcement Category:	Formal

Violation ID:	200	Orig Code:	S
Enforcemnt FY:	2001	Enforcement Action:	10/06/2000
Enforcement Detail:	St Compliance achieved	Enforcement Category:	Resolving

Violation ID:	30101	Orig Code:	S
Enforcemnt FY:	2001	Enforcement Action:	07/02/2001
Enforcement Detail:	St Intentional no-action	Enforcement Category:	Resolving

Violation ID:	30101	Orig Code:	S
Enforcemnt FY:	2001	Enforcement Action:	09/10/2001
Enforcement Detail:	St Compliance achieved	Enforcement Category:	Resolving

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Map ID
Direction
Distance
Elevation

	Database	EDR ID Number
E19 **SSW** **1 - 2 Miles** **Higher**	**GA WELLS**	**614**

Id:	614	Water source id:	25M4B19
Name:	CITY OF SAVANNAH-TRAVIS F	Latitude:	32.1247
Longitude:	81.1942	Source:	G
Gw mgd:	0.67	Sw mgd:	0.00
Status:	1	Gwsi id:	36Q014
Population:	0	County:	CHATHAM
County fips:	51	Ggs:	1

E20 **SSW** **1 - 2 Miles** **Higher**	**FED USGS**	**USGS40000259535**

Organization ID:	USGS-GA	Organization Name:	USGS Georgia Water Science Center
Monitor Location:	36Q365	Type:	Well
Description:	Not Reported	HUC:	03060109
Drainage Area:	Not Reported	Drainage Area Units:	Not Reported
Contrib Drainage Area:	Not Reported	Contrib Drainage Area Unts:	Not Reported
Aquifer:	Not Reported	Formation Type:	Not Reported
Aquifer Type:	Not Reported	Construction Date:	Not Reported
Well Depth:	Not Reported	Well Depth Units:	Not Reported
Well Hole Depth:	Not Reported	Well Hole Depth Units:	Not Reported

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D21 **NNE** **1 - 2 Miles** **Lower**	**FED USGS**	**USGS40000259654**

Organization ID:	USGS-GA	Organization Name:	USGS Georgia Water Science Center
Monitor Location:	36R022	Type:	Well
Description:	Not Reported	HUC:	03060109
Drainage Area:	Not Reported	Drainage Area Units:	Not Reported
Contrib Drainage Area:	Not Reported	Contrib Drainage Area Unts:	Not Reported
Aquifer:	Not Reported	Formation Type:	Not Reported
Aquifer Type:	Not Reported	Construction Date:	Not Reported
Well Depth:	Not Reported	Well Depth Units:	Not Reported
Well Hole Depth:	Not Reported	Well Hole Depth Units:	Not Reported

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G22 **NE** **1 - 2 Miles** **Lower**	**FED USGS**	**USGS40000259637**

Organization ID:	USGS-GA	Organization Name:	USGS Georgia Water Science Center
Monitor Location:	36R008	Type:	Well
Description:	PORT WENTWORTH, GA 2	HUC:	03060109
Drainage Area:	Not Reported	Drainage Area Units:	Not Reported
Contrib Drainage Area:	Not Reported	Contrib Drainage Area Unts:	Not Reported
Aquifer:	Floridan aquifer system	Formation Type:	Upper Floridan Aquifer
Aquifer Type:	Confined multiple aquifer	Construction Date:	19230101

Well Depth:	502	Well Depth Units:	ft
Well Hole Depth:	502	Well Hole Depth Units:	ft

Ground water levels,Number of Measurements:	22	Level reading date:	2000-09-14
Feet below surface:	78.70	Feet to sea level:	Not Reported
Note:	Not Reported		

Level reading date:	1998-05-22	Feet below surface:	70.03
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1993-11-10	Feet below surface:	78.87
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1990-05-17	Feet below surface:	80.62
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1988-05-24	Feet below surface:	89.85
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1985-05-20	Feet below surface:	83.10
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1984-11-01	Feet below surface:	84.77
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1984-05-18	Feet below surface:	82.87
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1983-11-08	Feet below surface:	82.90
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1983-06-15	Feet below surface:	79.37
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1982-11-03	Feet below surface:	76.00
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1981-10-27	Feet below surface:	81.90
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1980-05-21	Feet below surface:	74.10
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1979-11-02	Feet below surface:	79.20
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1978-12-04	Feet below surface:	78.35
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1977-11-07	Feet below surface:	79.60
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1976-12-14	Feet below surface:	72.40
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1976-02-20	Feet below surface:	71.80
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1976-01-16	Feet below surface:	70.00
Feet to sea level:	Not Reported	Note:	Not Reported

Level reading date:	1975-09-22	Feet below surface:	72.20
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1973-11-29	Feet below surface:	76.40
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1972-11-30	Feet below surface:	58.35
Feet to sea level:	Not Reported	Note:	Not Reported

G23
NE
1 - 2 Miles
Lower

GA WELLS **0000001919**

County code:	051	Well num:	36R008
Remarks:	PORT WENTWORTH, GA 2	Lat:	320920
Lon:	0810952	Latlon datum:	NAD27
Alt:	18	Alt datum:	NGVD29
Depth:	502	Depth to casing:	200.00
Casing dia:	12.00	Casing matl:	Not Reported
Depth to top:	200.00	Depth to bot:	502.00
Opening type:	X	Constr date:	1923
Discharge:	34.72	Prim use:	P
Aquifer code:	120FLRDU	Edr id:	0000001919

G24
NE
1 - 2 Miles
Lower

GA WELLS **612**

Id:	612	Water source id:	25M0301
Name:	CITY OF PORT WENTWORTH	Latitude:	32.1550
Longitude:	81.1639	Source:	G
Gw mgd:	0.29	Sw mgd:	0.00
Status:	1	Gwsi id:	36K010
Population:	3,947	County:	CHATHAM
County fips:	51	Ggs:	1

G25
NE
1 - 2 Miles
Lower

GA WELLS **0000001918**

County code:	051	Well num:	36R010
Remarks:	PORT WENTWORTH, GA 1	Lat:	320918
Lon:	0810950	Latlon datum:	NAD27
Alt:	16.00	Alt datum:	NGVD29
Depth:	650	Depth to casing:	254.00
Casing dia:	12.00	Casing matl:	S
Depth to top:	254.00	Depth to bot:	650.00
Opening type:	X	Constr date:	19420930
Discharge:	525.00	Prim use:	P
Aquifer code:	Not Reported	Edr id:	0000001918

Map ID
Direction
Distance
Elevation | Database | EDR ID Number

G26
NE
1 - 2 Miles
Lower

FED USGS **USGS40000259634**

Organization ID:	USGS-GA	Organization Name:	USGS Georgia Water Science Center
Monitor Location:	36R010	Type:	Well
Description:	PORT WENTWORTH, GA 1	HUC:	03060109
Drainage Area:	Not Reported	Drainage Area Units:	Not Reported
Contrib Drainage Area:	Not Reported	Contrib Drainage Area Unts:	Not Reported
Aquifer:	Not Reported	Formation Type:	Not Reported
Aquifer Type:	Not Reported	Construction Date:	19420930
Well Depth:	650	Well Depth Units:	ft
Well Hole Depth:	650	Well Hole Depth Units:	ft

Ground water levels,Number of Measurements:	1	Level reading date:	1973-08-01
Feet below surface:	61.00	Feet to sea level:	Not Reported
Note:	Not Reported		

27
SSW
1 - 2 Miles
Higher

GA WELLS **615**

Id:	615	Water source id:	25M4B17
Name:	CITY OF SAVANNAH-TRAVIS F	Latitude:	32.1241
Longitude:	81.1961	Source:	G
Gw mgd:	0.67	Sw mgd:	0.00
Status:	1	Gwsi id:	Not Reported
Population:	0	County:	CHATHAM
County fips:	51	Ggs:	1

G28
ENE
1 - 2 Miles
Lower

FRDS PWS **GA0510002**

Epa region:	04	State:	GA
Pwsid:	GA0510002	Pwsname:	PORT WENTWORTH
Cityserved:	Not Reported	Stateserved:	GA
Zipserved:	Not Reported	Fipscounty:	13051
Status:	Active	Retpopsrvd:	7985
Pwssvcconn:	1800	Psource longname:	Groundwater
Pwstype:	CWS	Owner:	Local_Govt
Contact:	CLAXTON, PHILLIP	Contactorgname:	CLAXTON, PHILLIP
Contactphone:	912-964-4379	Contactaddress1:	305 SOUTH COASTAL HWY.
Contactaddress2:	Not Reported	Contactcity:	PORT WENTWORTH
Contactstate:	GA	Contactzip:	31407
Pwsactivitycode:	A		

Pwsid:	GA0510002	Facid:	17602
Facname:	WELL #3 PLANT	Factype:	Treatment_plant
Facactivitycode:	A	Trtobjective:	disinfection
Trtprocess:	gaseous chlorination, post		
Factypecode:	TP		

Pwsid:	GA0510002	Facid:	17602

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Facname:	WELL #3 PLANT	Factype:	Treatment_plant
Facactivitycode:	A	Trtobjective:	other
Trtprocess:	fluoridation	Factypecode:	TP
Pwsid:	GA0510002	Facid:	2633
Facname:	ANTRIM ST WELL PLANT	Factype:	Treatment_plant
Facactivitycode:	A	Trtobjective:	disinfection
Trtprocess:	gaseous chlorination, post		
Factypecode:	TP		
Pwsid:	GA0510002	Facid:	2633
Facname:	ANTRIM ST WELL PLANT	Factype:	Treatment_plant
Facactivitycode:	A	Trtobjective:	other
Trtprocess:	fluoridation	Factypecode:	TP
Pwsid:	GA0510002	Facid:	388
Facname:	APPLEBY RD WELL PLANT	Factype:	Treatment_plant
Facactivitycode:	A	Trtobjective:	disinfection
Trtprocess:	gaseous chlorination, post		
Factypecode:	TP		
Pwsid:	GA0510002	Facid:	388
Facname:	APPLEBY RD WELL PLANT	Factype:	Treatment_plant
Facactivitycode:	A	Trtobjective:	other
Trtprocess:	fluoridation	Factypecode:	TP
PWS ID:	GA0510002	PWS name:	PORT WENTWORTH
Address:	305 SOUTH COASTAL HIGHWAY	Care of:	CITY OF PORT WENTWORTH
City:	PORT WENTWORTH	State:	GA
Zip:	31407	Owner:	PORT WENTWORTH
Source code:	Ground water	Population:	3349
PWS ID:	GA0510002	PWS type:	Not Reported
PWS name:	Not Reported	PWS address:	Not Reported
PWS city:	Not Reported	PWS state:	Not Reported
PWS zip:	Not Reported	PWS name:	PORT WENTWORTH
PWS type code:	C	Retail population served:	7985
Contact:	CLAXTON, PHILLIP	Contact address:	305 SOUTH COASTAL HWY.
Contact address:	PORT WENTWORTH	Contact city:	GA
Contact state:	31	Contact zip:	912-964-43
Contact telephone:	Not Reported		
County:	CHATHAM	Source:	Ground water
Treatment Objective:	DISINFECTION	Process:	HYPOCHLORINATION, POST
Population:	3349		
PWS ID:	GA0510002	Activity status:	Active
Date system activated:	Not Reported	Date system deactivated:	Not Reported
Retail population:	00002639	System name:	PORT WENTWORTH
System address:	CITY OF PORT WENTWORTH	System address:	305 SOUTH COASTAL HWY.
System city:	PORT WENTWORTH	System state:	GA
System zip:	31407		
Population served:	2,501 - 3,300 Persons	Treatment:	Treated
Latitude:	320916	Longitude:	0810948
Latitude:	320916	Longitude:	0810946
State:	GA	Latitude degrees:	32
Latitude minutes:	9	Latitude seconds:	16.0000
Longitude degrees:	81	Longitude minutes:	9

Longitude seconds:	46.0000		
State:	GA	Latitude degrees:	32
Latitude minutes:	9	Latitude seconds:	16.0000
Longitude degrees:	81	Longitude minutes:	9
Longitude seconds:	48.0000		
Violation id:	20205	Orig code:	S
State:	GA	Violation Year:	2004
Contamination code:	7000	Contamination Name:	Consumer Confidence Rule
Violation code:	71	Violation name:	CCR Complete Failure to Report
Rule code:	420	Rule name:	CCR
Violation measur:	Not Reported	Unit of measure:	Not Reported
State mcl:	Not Reported	Cmp bdt:	07/01/2004
Cmp edt:	Not Reported		
Violation id:	20410	Orig code:	S
State:	GA	Violation Year:	2009
Contamination code:	3100	Contamination Name:	Coliform (TCR)
Violation code:	23	Violation name:	Monitoring, Routine Major (TCR)
Rule code:	110	Rule name:	TCR
Violation measur:	Not Reported	Unit of measure:	Not Reported
State mcl:	Not Reported	Cmp bdt:	09/01/2009
Cmp edt:	09/30/2009		
Violation id:	20613	Orig code:	S
State:	GA	Violation Year:	2013
Contamination code:	2950	Contamination Name:	TTHM
Violation code:	02	Violation name:	MCL, Average
Rule code:	210	Rule name:	St1 DBP
Violation measur:	0.118	Unit of measure:	UG/L
State mcl:	0.08	Cmp bdt:	01/01/2013
Cmp edt:	03/31/2013		
Violation ID:	20205	Orig Code:	S
Enforcemnt FY:	2005	Enforcement Action:	07/01/2005
Enforcement Detail:	St Intentional no-action	Enforcement Category:	Resolving
Violation ID:	20205	Orig Code:	S
Enforcemnt FY:	2005	Enforcement Action:	07/05/2005
Enforcement Detail:	St Compliance achieved	Enforcement Category:	Resolving
Violation ID:	20410	Orig Code:	S
Enforcemnt FY:	2010	Enforcement Action:	10/22/2009
Enforcement Detail:	St Violation/Reminder Notice		
Enforcement Category:	Informal		
Violation ID:	20410	Orig Code:	S
Enforcemnt FY:	2010	Enforcement Action:	11/16/2009
Enforcement Detail:	St Public Notif received	Enforcement Category:	Informal
Violation ID:	20410	Orig Code:	S
Enforcemnt FY:	2010	Enforcement Action:	10/22/2009
Enforcement Detail:	St Public Notif requested	Enforcement Category:	Informal
Violation ID:	20613	Orig Code:	S
Enforcemnt FY:	2014	Enforcement Action:	02/25/2014
Enforcement Detail:	St Violation/Reminder Notice		
Enforcement Category:	Informal		
Violation ID:	20613	Orig Code:	S
Enforcemnt FY:	2014	Enforcement Action:	02/25/2014

Enforcement Detail:	St Public Notif requested	Enforcement Category:	Informal
PWS name:	PORT WENTWORTH	Population served:	7985
PWS type code:	C	Violation ID:	20205
Contaminant:	7000	Violation type:	71
Compliance start date:	7/1/2005 0:00:00	Compliance end date:	7/5/2005 0:00:00
Enforcement date:	7/1/2005 0:00:00	Enforcement action:	State Intentional no-action
Violation measurement:	Not Reported		
PWS name:	PORT WENTWORTH	Population served:	7985
PWS type code:	C	Violation ID:	20205
Contaminant:	7000	Violation type:	71
Compliance start date:	7/1/2005 0:00:00	Compliance end date:	7/5/2005 0:00:00
Enforcement date:	7/5/2005 0:00:00	Enforcement action:	State Compliance Achieved
Violation measurement:	Not Reported		

G29
NE
1 - 2 Miles
Lower

FED USGS USGS40000259635

Organization ID:	USGS-GA	Organization Name:	USGS Georgia Water Science Center
Monitor Location:	36R013	Type:	Well
Description:	Not Reported	HUC:	03060109
Drainage Area:	Not Reported	Drainage Area Units:	Not Reported
Contrib Drainage Area:	Not Reported	Contrib Drainage Area Unts:	Not Reported
Aquifer:	Not Reported	Formation Type:	Not Reported
Aquifer Type:	Not Reported	Construction Date:	Not Reported
Well Depth:	Not Reported	Well Depth Units:	Not Reported
Well Hole Depth:	Not Reported	Well Hole Depth Units:	Not Reported

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G30
ENE
1 - 2 Miles
Lower

FRDS PWS GA0510002

Epa region:	04	State:	GA
Pwsid:	GA0510002	Pwsname:	PORT WENTWORTH
Cityserved:	Not Reported	Stateserved:	GA
Zipserved:	Not Reported	Fipscounty:	13051
Status:	Active	Retpopsrvd:	7985
Pwssvcconn:	1800	Psource longname:	Groundwater
Pwstype:	CWS	Owner:	Local_Govt
Contact:	CLAXTON, PHILLIP	Contactorgname:	CLAXTON, PHILLIP
Contactphone:	912-964-4379	Contactaddress1:	305 SOUTH COASTAL HWY.
Contactaddress2:	Not Reported	Contactcity:	PORT WENTWORTH
Contactstate:	GA	Contactzip:	31407
Pwsactivitycode:	A		
Pwsid:	GA0510002	Facid:	17602
Facname:	WELL #3 PLANT	Factype:	Treatment_plant
Facactivitycode:	A	Trtobjective:	disinfection
Trtprocess:	gaseous chlorination, post		
Factypecode:	TP		
Pwsid:	GA0510002	Facid:	17602
Facname:	WELL #3 PLANT	Factype:	Treatment_plant
Facactivitycode:	A	Trtobjective:	other
Trtprocess:	fluoridation	Factypecode:	TP

Pwsid:	GA0510002	Facid:	2633
Facname:	ANTRIM ST WELL PLANT	Factype:	Treatment_plant
Facactivitycode:	A	Trtobjective:	disinfection
Trtprocess:	gaseous chlorination, post		
Factypecode:	TP		

Pwsid:	GA0510002	Facid:	2633
Facname:	ANTRIM ST WELL PLANT	Factype:	Treatment_plant
Facactivitycode:	A	Trtobjective:	other
Trtprocess:	fluoridation	Factypecode:	TP

Pwsid:	GA0510002	Facid:	388
Facname:	APPLEBY RD WELL PLANT	Factype:	Treatment_plant
Facactivitycode:	A	Trtobjective:	disinfection
Trtprocess:	gaseous chlorination, post		
Factypecode:	TP		

Pwsid:	GA0510002	Facid:	388
Facname:	APPLEBY RD WELL PLANT	Factype:	Treatment_plant
Facactivitycode:	A	Trtobjective:	other
Trtprocess:	fluoridation	Factypecode:	TP

PWS ID:	GA0510002	PWS name:	PORT WENTWORTH
Address:	305 SOUTH COASTAL HIGHWAY	Care of:	CITY OF PORT WENTWORTH
City:	PORT WENTWORTH	State:	GA
Zip:	31407	Owner:	PORT WENTWORTH
Source code:	Ground water	Population:	3349

PWS ID:	GA0510002	PWS type:	Not Reported
PWS name:	Not Reported	PWS address:	Not Reported
PWS city:	Not Reported	PWS state:	Not Reported
PWS zip:	Not Reported	PWS name:	PORT WENTWORTH
PWS type code:	C	Retail population served:	7985
Contact:	CLAXTON, PHILLIP	Contact address:	305 SOUTH COASTAL HWY.
Contact address:	PORT WENTWORTH	Contact city:	GA
Contact state:	31	Contact zip:	912-964-43
Contact telephone:	Not Reported		

County:	CHATHAM	Source:	Ground water
Treatment Objective:	DISINFECTION	Process:	HYPOCHLORINATION, POST
Population:	3349		

PWS ID:	GA0510002	Activity status:	Active
Date system activated:	Not Reported	Date system deactivated:	Not Reported
Retail population:	00002639	System name:	PORT WENTWORTH
System address:	CITY OF PORT WENTWORTH	System address:	305 SOUTH COASTAL HWY.
System city:	PORT WENTWORTH	System state:	GA
System zip:	31407		

Population served:	2,501 - 3,300 Persons	Treatment:	Treated

Latitude:	320916	Longitude:	0810948

Latitude:	320916	Longitude:	0810946

State:	GA	Latitude degrees:	32
Latitude minutes:	9	Latitude seconds:	16.0000
Longitude degrees:	81	Longitude minutes:	9
Longitude seconds:	46.0000		

State:	GA	Latitude degrees:	32
Latitude minutes:	9	Latitude seconds:	16.0000

Longitude degrees:	81	Longitude minutes:	9
Longitude seconds:	48.0000		
Violation id:	20205	Orig code:	S
State:	GA	Violation Year:	2004
Contamination code:	7000	Contamination Name:	Consumer Confidence Rule
Violation code:	71	Violation name:	CCR Complete Failure to Report
Rule code:	420	Rule name:	CCR
Violation measur:	Not Reported	Unit of measure:	Not Reported
State mcl:	Not Reported	Cmp bdt:	07/01/2004
Cmp edt:	Not Reported		
Violation id:	20410	Orig code:	S
State:	GA	Violation Year:	2009
Contamination code:	3100	Contamination Name:	Coliform (TCR)
Violation code:	23	Violation name:	Monitoring, Routine Major (TCR)
Rule code:	110	Rule name:	TCR
Violation measur:	Not Reported	Unit of measure:	Not Reported
State mcl:	Not Reported	Cmp bdt:	09/01/2009
Cmp edt:	09/30/2009		
Violation id:	20613	Orig code:	S
State:	GA	Violation Year:	2013
Contamination code:	2950	Contamination Name:	TTHM
Violation code:	02	Violation name:	MCL, Average
Rule code:	210	Rule name:	St1 DBP
Violation measur:	0.118	Unit of measure:	UG/L
State mcl:	0.08	Cmp bdt:	01/01/2013
Cmp edt:	03/31/2013		
Violation ID:	20205	Orig Code:	S
Enforcemnt FY:	2005	Enforcement Action:	07/01/2005
Enforcement Detail:	St Intentional no-action	Enforcement Category:	Resolving
Violation ID:	20205	Orig Code:	S
Enforcemnt FY:	2005	Enforcement Action:	07/05/2005
Enforcement Detail:	St Compliance achieved	Enforcement Category:	Resolving
Violation ID:	20410	Orig Code:	S
Enforcemnt FY:	2010	Enforcement Action:	10/22/2009
Enforcement Detail:	St Violation/Reminder Notice		
Enforcement Category:	Informal		
Violation ID:	20410	Orig Code:	S
Enforcemnt FY:	2010	Enforcement Action:	11/16/2009
Enforcement Detail:	St Public Notif received	Enforcement Category:	Informal
Violation ID:	20410	Orig Code:	S
Enforcemnt FY:	2010	Enforcement Action:	10/22/2009
Enforcement Detail:	St Public Notif requested	Enforcement Category:	Informal
Violation ID:	20613	Orig Code:	S
Enforcemnt FY:	2014	Enforcement Action:	02/25/2014
Enforcement Detail:	St Violation/Reminder Notice		
Enforcement Category:	Informal		
Violation ID:	20613	Orig Code:	S
Enforcemnt FY:	2014	Enforcement Action:	02/25/2014
Enforcement Detail:	St Public Notif requested	Enforcement Category:	Informal
PWS name:	PORT WENTWORTH	Population served:	7985
PWS type code:	C	Violation ID:	20205

Contaminant:	7000	Violation type:	71
Compliance start date:	7/1/2005 0:00:00	Compliance end date:	7/5/2005 0:00:00
Enforcement date:	7/1/2005 0:00:00	Enforcement action:	State Intentional no-action
Violation measurement:	Not Reported		

PWS name:	PORT WENTWORTH	Population served:	7985
PWS type code:	C	Violation ID:	20205
Contaminant:	7000	Violation type:	71
Compliance start date:	7/1/2005 0:00:00	Compliance end date:	7/5/2005 0:00:00
Enforcement date:	7/5/2005 0:00:00	Enforcement action:	State Compliance Achieved
Violation measurement:	Not Reported		

H31
North
1 - 2 Miles
Lower

FED USGS **USGS40000259658**

Organization ID:	USGS-GA	Organization Name:	USGS Georgia Water Science Center
Monitor Location:	36R021	Type:	Well
Description:	Not Reported	HUC:	03060109
Drainage Area:	Not Reported	Drainage Area Units:	Not Reported
Contrib Drainage Area:	Not Reported	Contrib Drainage Area Unts:	Not Reported
Aquifer:	Not Reported	Formation Type:	Not Reported
Aquifer Type:	Not Reported	Construction Date:	Not Reported
Well Depth:	Not Reported	Well Depth Units:	Not Reported
Well Hole Depth:	Not Reported	Well Hole Depth Units:	Not Reported

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H32
North
1 - 2 Miles
Lower

FRDS PWS **GA0510136**

Epa region:	04	State:	GA
Pwsid:	GA0510136	Pwsname:	C & S MOBILE ESTATES
Cityserved:	Not Reported	Stateserved:	GA
Zipserved:	Not Reported	Fipscounty:	13051
Status:	Closed	Retpopsrvd:	80
Pwssvcconn:	31	Psource longname:	Groundwater
Pwstype:	CWS	Owner:	Private
Contact:	RAHN, CHARLES B	Contactorgname:	Not Reported
Contactphone:	912-964-8106	Contactaddress1:	POB 7865
Contactaddress2:	Not Reported	Contactcity:	GARDEN CITY
Contactstate:	GA	Contactzip:	314187865
Pwsactivitycode:	I		

PWS ID:	GA0510136	PWS name:	C & S MOBILE ESTATES
Address:	POB 7865	Care of:	C & S MOBILE ESTATES
City:	GARDEN CITY	State:	GA
Zip:	314187865	Owner:	C & S MOBILE ESTATES
Source code:	Ground water	Population:	80

PWS ID:	GA0510136	PWS type:	Not Reported
PWS name:	Not Reported	PWS address:	Not Reported
PWS city:	Not Reported	PWS state:	Not Reported
PWS zip:	Not Reported	PWS ID:	GA0510136
Activity status:	Active	Date system activated:	Not Reported
Date system deactivated:	Not Reported	Retail population:	00000080
System name:	C & S MOBILE ESTATES	System address:	C & S MOBILE ESTATES
System address:	POB 7865	System city:	GARDEN CITY

System state:	GA	System zip:	314187865
Population served:	Under 101 Persons	Treatment:	Untreated
Latitude:	320953	Longitude:	0811056
State:	GA	Latitude degrees:	32
Latitude minutes:	9	Latitude seconds:	53.0000
Longitude degrees:	81	Longitude minutes:	10
Longitude seconds:	56.0000		

Violation id:	20101	Orig code:	S
State:	GA	Violation Year:	2001
Contamination code:	3100	Contamination Name:	Coliform (TCR)
Violation code:	23	Violation name:	Monitoring, Routine Major (TCR)
Rule code:	110	Rule name:	TCR
Violation measur:	0	Unit of measure:	Not Reported
State mcl:	0	Cmp bdt:	04/01/2001
Cmp edt:	04/30/2001		

Violation id:	20301	Orig code:	S
State:	GA	Violation Year:	2001
Contamination code:	3100	Contamination Name:	Coliform (TCR)
Violation code:	22	Violation name:	MCL, Monthly (TCR)
Rule code:	110	Rule name:	TCR
Violation measur:	0	Unit of measure:	Not Reported
State mcl:	0	Cmp bdt:	06/01/2001
Cmp edt:	06/30/2001		

Violation id:	20401	Orig code:	S
State:	GA	Violation Year:	2001
Contamination code:	7000	Contamination Name:	Consumer Confidence Rule
Violation code:	71	Violation name:	CCR Complete Failure to Report
Rule code:	420	Rule name:	CCR
Violation measur:	Not Reported	Unit of measure:	Not Reported
State mcl:	Not Reported	Cmp bdt:	07/01/2001
Cmp edt:	Not Reported		

Violation id:	20602	Orig code:	S
State:	GA	Violation Year:	2002
Contamination code:	3100	Contamination Name:	Coliform (TCR)
Violation code:	22	Violation name:	MCL, Monthly (TCR)
Rule code:	110	Rule name:	TCR
Violation measur:	Not Reported	Unit of measure:	Not Reported
State mcl:	Not Reported	Cmp bdt:	07/01/2002
Cmp edt:	07/31/2002		

Violation ID:	20101	Orig Code:	S
Enforcemnt FY:	2001	Enforcement Action:	05/24/2001
Enforcement Detail:	St Violation/Reminder Notice		
Enforcement Category:	Informal		

Violation ID:	20101	Orig Code:	S
Enforcemnt FY:	2001	Enforcement Action:	05/24/2001
Enforcement Detail:	St Public Notif requested	Enforcement Category:	Informal

Violation ID:	20301	Orig Code:	S
Enforcemnt FY:	2001	Enforcement Action:	07/31/2001
Enforcement Detail:	St Violation/Reminder Notice		
Enforcement Category:	Informal		

Violation ID:	20301	Orig Code:	S

Enforcemnt FY:	2001	Enforcement Action:	07/31/2001
Enforcement Detail:	St Public Notif requested	Enforcement Category:	Informal
Violation ID:	20401	Orig Code:	S
Enforcemnt FY:	2001	Enforcement Action:	09/04/2001
Enforcement Detail:	St Compliance achieved	Enforcement Category:	Resolving
Violation ID:	20401	Orig Code:	S
Enforcemnt FY:	2001	Enforcement Action:	07/02/2001
Enforcement Detail:	St Intentional no-action	Enforcement Category:	Resolving
Violation ID:	20602	Orig Code:	S
Enforcemnt FY:	2002	Enforcement Action:	08/27/2002
Enforcement Detail:	St Violation/Reminder Notice		
Enforcement Category:	Informal		
Violation ID:	20602	Orig Code:	S
Enforcemnt FY:	2002	Enforcement Action:	08/27/2002
Enforcement Detail:	St Public Notif requested	Enforcement Category:	Informal
Violation ID:	20602	Orig Code:	S
Enforcemnt FY:	2002	Enforcement Action:	09/11/2002
Enforcement Detail:	St Public Notif received	Enforcement Category:	Informal

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I33
SE
1 - 2 Miles
Lower

FED USGS **USGS40000259537**

Organization ID:	USGS-GA	Organization Name:	USGS Georgia Water Science Center
Monitor Location:	36R019	Type:	Well
Description:	Not Reported	HUC:	03060109
Drainage Area:	Not Reported	Drainage Area Units:	Not Reported
Contrib Drainage Area:	Not Reported	Contrib Drainage Area Unts:	Not Reported
Aquifer:	Not Reported	Formation Type:	Not Reported
Aquifer Type:	Not Reported	Construction Date:	Not Reported
Well Depth:	Not Reported	Well Depth Units:	Not Reported
Well Hole Depth:	Not Reported	Well Hole Depth Units:	Not Reported

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H34
North
1 - 2 Miles
Lower

FED USGS **USGS40000259661**

Organization ID:	USGS-GA	Organization Name:	USGS Georgia Water Science Center
Monitor Location:	36R024	Type:	Well
Description:	Not Reported	HUC:	03060109
Drainage Area:	Not Reported	Drainage Area Units:	Not Reported
Contrib Drainage Area:	Not Reported	Contrib Drainage Area Unts:	Not Reported
Aquifer:	Not Reported	Formation Type:	Not Reported
Aquifer Type:	Not Reported	Construction Date:	Not Reported
Well Depth:	Not Reported	Well Depth Units:	Not Reported
Well Hole Depth:	Not Reported	Well Hole Depth Units:	Not Reported

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Map ID
Direction
Distance
Elevation | Database | EDR ID Number

J35
SSW
1 - 2 Miles
Lower

FED USGS **USGS40000259527**

Organization ID:	USGS-GA	Organization Name:	USGS Georgia Water Science Center
Monitor Location:	36Q293	Type:	Well
Description:	SAVANNAH, GA, 17	HUC:	03060109
Drainage Area:	Not Reported	Drainage Area Units:	Not Reported
Contrib Drainage Area:	Not Reported	Contrib Drainage Area Unts:	Not Reported
Aquifer:	Floridan aquifer system	Formation Type:	Floridan Aquifer System
Aquifer Type:	Confined multiple aquifer	Construction Date:	Not Reported
Well Depth:	652	Well Depth Units:	ft
Well Hole Depth:	Not Reported	Well Hole Depth Units:	Not Reported

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J36
SSW
1 - 2 Miles
Lower

GA WELLS **0000001899**

County code:	051	Well num:	36Q293
Remarks:	SAVANNAH, GA, 17	Lat:	320716
Lon:	0811137	Latlon datum:	NAD27
Alt:	38.93	Alt datum:	NGVD29
Depth:	652	Depth to casing:	272
Casing dia:	10	Casing matl:	Not Reported
Depth to top:	272	Depth to bot:	652
Opening type:	X	Constr date:	194208
Discharge:	Not Reported	Prim use:	P
Aquifer code:	120FLRD	Edr id:	0000001899

J37
SSW
1 - 2 Miles
Lower

FED USGS **USGS40000259528**

Organization ID:	USGS-GA	Organization Name:	USGS Georgia Water Science Center
Monitor Location:	36Q364	Type:	Well
Description:	Not Reported	HUC:	03060109
Drainage Area:	Not Reported	Drainage Area Units:	Not Reported
Contrib Drainage Area:	Not Reported	Contrib Drainage Area Unts:	Not Reported
Aquifer:	Not Reported	Formation Type:	Not Reported
Aquifer Type:	Not Reported	Construction Date:	Not Reported
Well Depth:	Not Reported	Well Depth Units:	Not Reported
Well Hole Depth:	Not Reported	Well Hole Depth Units:	Not Reported

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H38
North
1 - 2 Miles
Lower

FRDS PWS **GA0510137**

Epa region:	04	State:	GA
Pwsid:	GA0510137	Pwsname:	BARNWELL GARDENS SUBDIVISION
Cityserved:	Not Reported	Stateserved:	GA
Zipserved:	Not Reported	Fipscounty:	13051

Status:	Active	Retpopsrvd:	97
Pwssvcconn:	38	Psource longname:	Groundwater
Pwstype:	CWS	Owner:	Private
Contact:	THOMPSON, VINCE	Contactorgname:	THOMPSON, VINCE
Contactphone:	912-964-4770	Contactaddress1:	8144 OLD HWY. 21
Contactaddress2:	Not Reported	Contactcity:	PORT WENTWORTH
Contactstate:	GA	Contactzip:	31407
Pwsactivitycode:	A		

PWS ID:	GA0510137	PWS name:	BARNWELL GARDENS SUBDIVISION
Address:	6594 HIGHWAY 21	Care of:	BARNWELL GARDENS MHP
City:	PORT WENTWORTH	State:	GA
Zip:	31407	Owner:	BARNWELL GARDENS SUBDIVISION
Source code:	Ground water	Population:	99

PWS ID:	GA0510137	PWS type:	Not Reported
PWS name:	Not Reported	PWS address:	Not Reported
PWS city:	Not Reported	PWS state:	Not Reported
PWS zip:	Not Reported	PWS name:	BARNWELL GARDENS SUBDIVISION
PWS type code:	C	Retail population served:	97
Contact:	THOMPSON, VINCE	Contact address:	8144 OLD HWY. 21
Contact address:	PORT WENTWORTH	Contact city:	GA
Contact state:	31	Contact zip:	912-964-47
Contact telephone:	Not Reported		

PWS ID:	GA0510137	Activity status:	Active
Date system activated:	Not Reported	Date system deactivated:	Not Reported
Retail population:	00000071	System name:	BARNWELL GARDENS SUBDIVISION
System address:	BARNWELL GARDENS S/D	System address:	6594 HIGHWAY 21
System city:	PORT WENTWORTH	System state:	GA
System zip:	31407		

Population served:	Under 101 Persons	Treatment:	Untreated

Latitude:	320958	Longitude:	0811058

State:	GA	Latitude degrees:	32
Latitude minutes:	9	Latitude seconds:	58.0000
Longitude degrees:	81	Longitude minutes:	10
Longitude seconds:	58.0000		

Violation id:	10102	Orig code:	S
State:	GA	Violation Year:	2002
Contamination code:	7000	Contamination Name:	Consumer Confidence Rule
Violation code:	71	Violation name:	CCR Complete Failure to Report
Rule code:	420	Rule name:	CCR
Violation measur:	Not Reported	Unit of measure:	Not Reported
State mcl:	Not Reported	Cmp bdt:	07/01/2002
Cmp edt:	Not Reported		

Violation id:	10303	Orig code:	S
State:	GA	Violation Year:	2002
Contamination code:	3100	Contamination Name:	Coliform (TCR)
Violation code:	25	Violation name:	Monitoring, Repeat Major (TCR)
Rule code:	110	Rule name:	TCR
Violation measur:	Not Reported	Unit of measure:	Not Reported
State mcl:	Not Reported	Cmp bdt:	12/01/2002
Cmp edt:	12/31/2002		

Violation id:	10503	Orig code:	S
State:	GA	Violation Year:	2003
Contamination code:	7000	Contamination Name:	Consumer Confidence Rule

Violation code:	71	Violation name:	CCR Complete Failure to Report
Rule code:	420	Rule name:	CCR
Violation measur:	Not Reported	Unit of measure:	Not Reported
State mcl:	Not Reported	Cmp bdt:	07/01/2003
Cmp edt:	Not Reported		

Violation id:	10604	Orig code:	S
State:	GA	Violation Year:	2004
Contamination code:	7000	Contamination Name:	Consumer Confidence Rule
Violation code:	71	Violation name:	CCR Complete Failure to Report
Rule code:	420	Rule name:	CCR
Violation measur:	Not Reported	Unit of measure:	Not Reported
State mcl:	Not Reported	Cmp bdt:	07/01/2004
Cmp edt:	Not Reported		

Violation id:	10705	Orig code:	S
State:	GA	Violation Year:	2005
Contamination code:	3100	Contamination Name:	Coliform (TCR)
Violation code:	23	Violation name:	Monitoring, Routine Major (TCR)
Rule code:	110	Rule name:	TCR
Violation measur:	Not Reported	Unit of measure:	Not Reported
State mcl:	Not Reported	Cmp bdt:	05/01/2005
Cmp edt:	05/31/2005		

Violation id:	10805	Orig code:	S
State:	GA	Violation Year:	2005
Contamination code:	7000	Contamination Name:	Consumer Confidence Rule
Violation code:	71	Violation name:	CCR Complete Failure to Report
Rule code:	420	Rule name:	CCR
Violation measur:	Not Reported	Unit of measure:	Not Reported
State mcl:	Not Reported	Cmp bdt:	07/01/2005
Cmp edt:	Not Reported		

Violation id:	10906	Orig code:	S
State:	GA	Violation Year:	2005
Contamination code:	3100	Contamination Name:	Coliform (TCR)
Violation code:	23	Violation name:	Monitoring, Routine Major (TCR)
Rule code:	110	Rule name:	TCR
Violation measur:	Not Reported	Unit of measure:	Not Reported
State mcl:	Not Reported	Cmp bdt:	12/01/2005
Cmp edt:	12/31/2005		

Violation id:	11006	Orig code:	S
State:	GA	Violation Year:	2006
Contamination code:	3100	Contamination Name:	Coliform (TCR)
Violation code:	23	Violation name:	Monitoring, Routine Major (TCR)
Rule code:	110	Rule name:	TCR
Violation measur:	Not Reported	Unit of measure:	Not Reported
State mcl:	Not Reported	Cmp bdt:	01/01/2006
Cmp edt:	01/31/2006		

Violation id:	11106	Orig code:	S
State:	GA	Violation Year:	2006
Contamination code:	7000	Contamination Name:	Consumer Confidence Rule
Violation code:	71	Violation name:	CCR Complete Failure to Report
Rule code:	420	Rule name:	CCR
Violation measur:	Not Reported	Unit of measure:	Not Reported
State mcl:	Not Reported	Cmp bdt:	07/01/2006
Cmp edt:	Not Reported		

Violation id:	11207	Orig code:	S
State:	GA	Violation Year:	2007

Contamination code:	7000	Contamination Name:	Consumer Confidence Rule
Violation code:	71	Violation name:	CCR Complete Failure to Report
Rule code:	420	Rule name:	CCR
Violation measur:	Not Reported	Unit of measure:	Not Reported
State mcl:	Not Reported	Cmp bdt:	07/01/2007
Cmp edt:	Not Reported		

Violation id:	11308	Orig code:	S
State:	GA	Violation Year:	2008
Contamination code:	3100	Contamination Name:	Coliform (TCR)
Violation code:	23	Violation name:	Monitoring, Routine Major (TCR)
Rule code:	110	Rule name:	TCR
Violation measur:	Not Reported	Unit of measure:	Not Reported
State mcl:	Not Reported	Cmp bdt:	03/01/2008
Cmp edt:	03/31/2008		

Violation id:	11408	Orig code:	S
State:	GA	Violation Year:	2008
Contamination code:	7000	Contamination Name:	Consumer Confidence Rule
Violation code:	71	Violation name:	CCR Complete Failure to Report
Rule code:	420	Rule name:	CCR
Violation measur:	Not Reported	Unit of measure:	Not Reported
State mcl:	Not Reported	Cmp bdt:	07/01/2008
Cmp edt:	Not Reported		

Violation id:	11508	Orig code:	S
State:	GA	Violation Year:	2008
Contamination code:	3100	Contamination Name:	Coliform (TCR)
Violation code:	26	Violation name:	Monitoring, Repeat Minor (TCR)
Rule code:	110	Rule name:	TCR
Violation measur:	Not Reported	Unit of measure:	Not Reported
State mcl:	Not Reported	Cmp bdt:	06/01/2008
Cmp edt:	06/30/2008		

Violation id:	11608	Orig code:	S
State:	GA	Violation Year:	2008
Contamination code:	3100	Contamination Name:	Coliform (TCR)
Violation code:	24	Violation name:	Monitoring, Routine Minor (TCR)
Rule code:	110	Rule name:	TCR
Violation measur:	Not Reported	Unit of measure:	Not Reported
State mcl:	Not Reported	Cmp bdt:	07/01/2008
Cmp edt:	07/31/2008		

Violation id:	11709	Orig code:	S
State:	GA	Violation Year:	2008
Contamination code:	3100	Contamination Name:	Coliform (TCR)
Violation code:	22	Violation name:	MCL, Monthly (TCR)
Rule code:	110	Rule name:	TCR
Violation measur:	Not Reported	Unit of measure:	Not Reported
State mcl:	Not Reported	Cmp bdt:	09/01/2008
Cmp edt:	09/30/2008		

Violation id:	11809	Orig code:	S
State:	GA	Violation Year:	2008
Contamination code:	3100	Contamination Name:	Coliform (TCR)
Violation code:	24	Violation name:	Monitoring, Routine Minor (TCR)
Rule code:	110	Rule name:	TCR
Violation measur:	Not Reported	Unit of measure:	Not Reported
State mcl:	Not Reported	Cmp bdt:	10/01/2008
Cmp edt:	10/31/2008		

Violation id:	11909	Orig code:	S

State:	GA	Violation Year:	2008
Contamination code:	1040	Contamination Name:	Nitrate
Violation code:	03	Violation name:	Monitoring, Regular
Rule code:	331	Rule name:	Nitrates
Violation measur:	Not Reported	Unit of measure:	Not Reported
State mcl:	Not Reported	Cmp bdt:	01/01/2008
Cmp edt:	12/31/2008		

Violation id:	12009	Orig code:	S
State:	GA	Violation Year:	2009
Contamination code:	7000	Contamination Name:	Consumer Confidence Rule
Violation code:	71	Violation name:	CCR Complete Failure to Report
Rule code:	420	Rule name:	CCR
Violation measur:	Not Reported	Unit of measure:	Not Reported
State mcl:	Not Reported	Cmp bdt:	07/01/2009
Cmp edt:	Not Reported		

Violation id:	12109	Orig code:	S
State:	GA	Violation Year:	2009
Contamination code:	3100	Contamination Name:	Coliform (TCR)
Violation code:	24	Violation name:	Monitoring, Routine Minor (TCR)
Rule code:	110	Rule name:	TCR
Violation measur:	Not Reported	Unit of measure:	Not Reported
State mcl:	Not Reported	Cmp bdt:	07/01/2009
Cmp edt:	07/31/2009		

Violation id:	12210	Orig code:	S
State:	GA	Violation Year:	2009
Contamination code:	5000	Contamination Name:	Lead and Copper Rule
Violation code:	52	Violation name:	Follow-up Or Routine LCR Tap M/R
Rule code:	350	Rule name:	LCR
Violation measur:	Not Reported	Unit of measure:	Not Reported
State mcl:	Not Reported	Cmp bdt:	10/01/2009
Cmp edt:	Not Reported		

PWS currently has or had major violation(s) or enforcement:Yes

Violation ID:	9200001	Violation source ID:	Not Reported
PWS telephone:	Not Reported	Contaminant:	Coliform (Tcr)
Violation type:	Max Contaminant Level, Monthly (TCR)		
Violation start date:	040192	Violation end date:	043092
Violation period (months):	001	Violation awareness date:	Not Reported
Major violator:	Not Reported	Maximum contaminant level:	Not Reported
Number of required samples:	Not Reported	Number of samples taken:	Not Reported
Analysis method:	Not Reported	Analysis result:	Not Reported

PWS currently has or had major violation(s) or enforcement:Yes

Violation ID:	9200002	Violation source ID:	Not Reported
PWS telephone:	Not Reported	Contaminant:	Coliform (Tcr)
Violation type:	Monitoring, Repeat Minor (TCR)		
Violation start date:	040192	Violation end date:	043092
Violation period (months):	001	Violation awareness date:	Not Reported
Major violator:	No	Maximum contaminant level:	Not Reported
Number of required samples:	Not Reported	Number of samples taken:	Not Reported
Analysis method:	Not Reported	Analysis result:	Not Reported

Violation ID:	100	Orig Code:	S
Enforcemnt FY:	2000	Enforcement Action:	02/17/2000
Enforcement Detail:	St Public Notif requested	Enforcement Category:	Informal

Violation ID:	100	Orig Code:	S

Enforcemnt FY: 2000 Enforcement Action: 02/17/2000
Enforcement Detail: St Violation/Reminder Notice
Enforcement Category: Informal

Violation ID: 100 Orig Code: S
Enforcemnt FY: 2000 Enforcement Action: 03/27/2000
Enforcement Detail: St Public Notif received Enforcement Category: Informal

Violation ID: 10102 Orig Code: S
Enforcemnt FY: 2002 Enforcement Action: 07/18/2002
Enforcement Detail: St Compliance achieved Enforcement Category: Resolving

Violation ID: 10102 Orig Code: S
Enforcemnt FY: 2002 Enforcement Action: 07/02/2002
Enforcement Detail: St Violation/Reminder Notice
Enforcement Category: Informal

Violation ID: 10303 Orig Code: S
Enforcemnt FY: 2003 Enforcement Action: 01/21/2003
Enforcement Detail: St Violation/Reminder Notice
Enforcement Category: Informal

Violation ID: 10303 Orig Code: S
Enforcemnt FY: 2003 Enforcement Action: 01/21/2003
Enforcement Detail: St Public Notif requested Enforcement Category: Informal

Violation ID: 10503 Orig Code: S
Enforcemnt FY: 2003 Enforcement Action: 09/17/2003
Enforcement Detail: St Compliance achieved Enforcement Category: Resolving

Violation ID: 10503 Orig Code: S
Enforcemnt FY: 2003 Enforcement Action: 08/11/2003
Enforcement Detail: State CCR Follow-up Notice
Enforcement Category: Informal

Violation ID: 10604 Orig Code: S
Enforcemnt FY: 2004 Enforcement Action: 09/14/2004
Enforcement Detail: St Compliance achieved Enforcement Category: Resolving

Violation ID: 10604 Orig Code: S
Enforcemnt FY: 2004 Enforcement Action: 08/20/2004
Enforcement Detail: State CCR Follow-up Notice
Enforcement Category: Informal

Violation ID: 10705 Orig Code: S
Enforcemnt FY: 2005 Enforcement Action: 06/27/2005
Enforcement Detail: St Public Notif requested Enforcement Category: Informal

Violation ID: 10705 Orig Code: S
Enforcemnt FY: 2006 Enforcement Action: 08/21/2006
Enforcement Detail: St Public Notif received Enforcement Category: Informal

Violation ID: 10705 Orig Code: S
Enforcemnt FY: 2007 Enforcement Action: 03/15/2007
Enforcement Detail: St Formal NOV issued Enforcement Category: Informal

Violation ID: 10705 Orig Code: S
Enforcemnt FY: 2006 Enforcement Action: 05/30/2006
Enforcement Detail: St Compliance Meeting conducted
Enforcement Category: Informal

Violation ID: 10705 Orig Code: S

Enforcemnt FY: 2006
Enforcement Action: 05/09/2006
Enforcement Detail: St Formal NOV issued
Enforcement Category: Informal

Violation ID: 10705
Orig Code: S
Enforcemnt FY: 2005
Enforcement Action: 06/27/2005
Enforcement Detail: St Violation/Reminder Notice
Enforcement Category: Informal

Violation ID: 10705
Orig Code: S
Enforcemnt FY: 2006
Enforcement Action: 07/14/2006
Enforcement Detail: St AO (w/penalty) issued
Enforcement Category: Formal

Violation ID: 10805
Orig Code: S
Enforcemnt FY: 2007
Enforcement Action: 03/15/2007
Enforcement Detail: St Formal NOV issued
Enforcement Category: Informal

Violation ID: 10805
Orig Code: S
Enforcemnt FY: 2006
Enforcement Action: 07/14/2006
Enforcement Detail: St AO (w/penalty) issued
Enforcement Category: Formal

Violation ID: 10805
Orig Code: S
Enforcemnt FY: 2006
Enforcement Action: 08/29/2006
Enforcement Detail: St Compliance achieved
Enforcement Category: Resolving

Violation ID: 10805
Orig Code: S
Enforcemnt FY: 2006
Enforcement Action: 10/03/2005
Enforcement Detail: State CCR Follow-up Notice
Enforcement Category: Informal

Violation ID: 10805
Orig Code: S
Enforcemnt FY: 2005
Enforcement Action: 08/01/2005
Enforcement Detail: State CCR Follow-up Notice
Enforcement Category: Informal

Violation ID: 10906
Orig Code: S
Enforcemnt FY: 2006
Enforcement Action: 07/14/2006
Enforcement Detail: St AO (w/penalty) issued
Enforcement Category: Formal

Violation ID: 10906
Orig Code: S
Enforcemnt FY: 2006
Enforcement Action: 01/23/2006
Enforcement Detail: St Violation/Reminder Notice
Enforcement Category: Informal

Violation ID: 10906
Orig Code: S
Enforcemnt FY: 2006
Enforcement Action: 08/21/2006
Enforcement Detail: St Public Notif received
Enforcement Category: Informal

Violation ID: 10906
Orig Code: S
Enforcemnt FY: 2006
Enforcement Action: 01/23/2006
Enforcement Detail: St Public Notif requested
Enforcement Category: Informal

Violation ID: 10906
Orig Code: S
Enforcemnt FY: 2006
Enforcement Action: 05/30/2006
Enforcement Detail: St Compliance Meeting conducted
Enforcement Category: Informal

Violation ID: 10906
Orig Code: S
Enforcemnt FY: 2006
Enforcement Action: 05/09/2006
Enforcement Detail: St Formal NOV issued
Enforcement Category: Informal

Violation ID: 10906
Orig Code: S
Enforcemnt FY: 2007
Enforcement Action: 03/15/2007

Enforcement Detail:	St Formal NOV issued	Enforcement Category:	Informal
Violation ID:	11006	Orig Code:	S
Enforcemnt FY:	2006	Enforcement Action:	05/30/2006
Enforcement Detail:	St Compliance Meeting conducted		
Enforcement Category:	Informal		
Violation ID:	11006	Orig Code:	S
Enforcemnt FY:	2006	Enforcement Action:	05/09/2006
Enforcement Detail:	St Formal NOV issued	Enforcement Category:	Informal
Violation ID:	11006	Orig Code:	S
Enforcemnt FY:	2006	Enforcement Action:	02/22/2006
Enforcement Detail:	St Public Notif requested	Enforcement Category:	Informal
Violation ID:	11006	Orig Code:	S
Enforcemnt FY:	2006	Enforcement Action:	02/22/2006
Enforcement Detail:	St Violation/Reminder Notice		
Enforcement Category:	Informal		
Violation ID:	11006	Orig Code:	S
Enforcemnt FY:	2006	Enforcement Action:	07/14/2006
Enforcement Detail:	St AO (w/penalty) issued	Enforcement Category:	Formal
Violation ID:	11006	Orig Code:	S
Enforcemnt FY:	2006	Enforcement Action:	08/21/2006
Enforcement Detail:	St Public Notif received	Enforcement Category:	Informal
Violation ID:	11006	Orig Code:	S
Enforcemnt FY:	2007	Enforcement Action:	03/15/2007
Enforcement Detail:	St Formal NOV issued	Enforcement Category:	Informal
Violation ID:	11106	Orig Code:	S
Enforcemnt FY:	2006	Enforcement Action:	07/14/2006
Enforcement Detail:	St AO (w/penalty) issued	Enforcement Category:	Formal
Violation ID:	11106	Orig Code:	S
Enforcemnt FY:	2006	Enforcement Action:	08/20/2006
Enforcement Detail:	St Compliance achieved	Enforcement Category:	Resolving
Violation ID:	11106	Orig Code:	S
Enforcemnt FY:	2007	Enforcement Action:	03/15/2007
Enforcement Detail:	St Formal NOV issued	Enforcement Category:	Informal
Violation ID:	11106	Orig Code:	S
Enforcemnt FY:	2006	Enforcement Action:	08/15/2006
Enforcement Detail:	State CCR Follow-up Notice		
Enforcement Category:	Informal		
Violation ID:	11207	Orig Code:	S
Enforcemnt FY:	2007	Enforcement Action:	09/28/2007
Enforcement Detail:	St Compliance achieved	Enforcement Category:	Resolving
Violation ID:	11207	Orig Code:	S
Enforcemnt FY:	2007	Enforcement Action:	08/31/2007
Enforcement Detail:	State CCR Follow-up Notice		
Enforcement Category:	Informal		
Violation ID:	11308	Orig Code:	S
Enforcemnt FY:	2008	Enforcement Action:	04/18/2008
Enforcement Detail:	St Public Notif requested	Enforcement Category:	Informal

Violation ID:	11308	Orig Code:	S
Enforcemnt FY:	2009	Enforcement Action:	02/23/2009
Enforcement Detail:	St AO (w/penalty) issued	Enforcement Category:	Formal
Violation ID:	11308	Orig Code:	S
Enforcemnt FY:	2008	Enforcement Action:	04/18/2008
Enforcement Detail:	St Violation/Reminder Notice		
Enforcement Category:	Informal		
Violation ID:	11308	Orig Code:	S
Enforcemnt FY:	2009	Enforcement Action:	02/20/2009
Enforcement Detail:	St AO (w/penalty) issued	Enforcement Category:	Formal
Violation ID:	11408	Orig Code:	S
Enforcemnt FY:	2010	Enforcement Action:	03/30/2010
Enforcement Detail:	St AO (w/penalty) issued	Enforcement Category:	Formal
Violation ID:	11408	Orig Code:	S
Enforcemnt FY:	2008	Enforcement Action:	08/12/2008
Enforcement Detail:	State CCR Follow-up Notice		
Enforcement Category:	Informal		
Violation ID:	11408	Orig Code:	S
Enforcemnt FY:	2010	Enforcement Action:	05/03/2010
Enforcement Detail:	St Compliance achieved	Enforcement Category:	Resolving
Violation ID:	11508	Orig Code:	S
Enforcemnt FY:	2009	Enforcement Action:	02/23/2009
Enforcement Detail:	St AO (w/penalty) issued	Enforcement Category:	Formal
Violation ID:	11508	Orig Code:	S
Enforcemnt FY:	2008	Enforcement Action:	07/18/2008
Enforcement Detail:	St Violation/Reminder Notice		
Enforcement Category:	Informal		
Violation ID:	11508	Orig Code:	S
Enforcemnt FY:	2008	Enforcement Action:	07/18/2008
Enforcement Detail:	St Public Notif requested	Enforcement Category:	Informal
Violation ID:	11508	Orig Code:	S
Enforcemnt FY:	2009	Enforcement Action:	02/20/2009
Enforcement Detail:	St AO (w/penalty) issued	Enforcement Category:	Formal
Violation ID:	11608	Orig Code:	S
Enforcemnt FY:	2009	Enforcement Action:	02/20/2009
Enforcement Detail:	St AO (w/penalty) issued	Enforcement Category:	Formal
Violation ID:	11608	Orig Code:	S
Enforcemnt FY:	2008	Enforcement Action:	08/23/2008
Enforcement Detail:	St Violation/Reminder Notice		
Enforcement Category:	Informal		
Violation ID:	11608	Orig Code:	S
Enforcemnt FY:	2008	Enforcement Action:	08/23/2008
Enforcement Detail:	St Public Notif requested	Enforcement Category:	Informal
Violation ID:	11608	Orig Code:	S
Enforcemnt FY:	2009	Enforcement Action:	02/23/2009
Enforcement Detail:	St AO (w/penalty) issued	Enforcement Category:	Formal
Violation ID:	11709	Orig Code:	S
Enforcemnt FY:	2009	Enforcement Action:	10/06/2008

Enforcement Detail: St Violation/Reminder Notice
Enforcement Category: Informal

Violation ID: 11709 Orig Code: S
Enforcemnt FY: 2009 Enforcement Action: 10/06/2008
Enforcement Detail: St Public Notif requested Enforcement Category: Informal

Violation ID: 11709 Orig Code: S
Enforcemnt FY: 2009 Enforcement Action: 02/20/2009
Enforcement Detail: St AO (w/penalty) issued Enforcement Category: Formal

Violation ID: 11709 Orig Code: S
Enforcemnt FY: 2009 Enforcement Action: 02/23/2009
Enforcement Detail: St AO (w/penalty) issued Enforcement Category: Formal

Violation ID: 11809 Orig Code: S
Enforcemnt FY: 2009 Enforcement Action: 02/20/2009
Enforcement Detail: St AO (w/penalty) issued Enforcement Category: Formal

Violation ID: 11809 Orig Code: S
Enforcemnt FY: 2009 Enforcement Action: 11/20/2008
Enforcement Detail: St Violation/Reminder Notice
Enforcement Category: Informal

Violation ID: 11809 Orig Code: S
Enforcemnt FY: 2009 Enforcement Action: 02/23/2009
Enforcement Detail: St AO (w/penalty) issued Enforcement Category: Formal

Violation ID: 11809 Orig Code: S
Enforcemnt FY: 2009 Enforcement Action: 11/20/2008
Enforcement Detail: St Public Notif requested Enforcement Category: Informal

Violation ID: 11909 Orig Code: S
Enforcemnt FY: 2009 Enforcement Action: 03/20/2009
Enforcement Detail: St Violation/Reminder Notice
Enforcement Category: Informal

Violation ID: 11909 Orig Code: S
Enforcemnt FY: 2010 Enforcement Action: 04/07/2010
Enforcement Detail: St Public Notif received Enforcement Category: Informal

Violation ID: 11909 Orig Code: S
Enforcemnt FY: 2010 Enforcement Action: 03/30/2010
Enforcement Detail: St AO (w/penalty) issued Enforcement Category: Formal

Violation ID: 11909 Orig Code: S
Enforcemnt FY: 2009 Enforcement Action: 03/20/2009
Enforcement Detail: St Public Notif requested Enforcement Category: Informal

Violation ID: 11909 Orig Code: S
Enforcemnt FY: 2011 Enforcement Action: 10/12/2010
Enforcement Detail: St Compliance achieved Enforcement Category: Resolving

Violation ID: 12009 Orig Code: S
Enforcemnt FY: 2010 Enforcement Action: 10/07/2009
Enforcement Detail: State CCR Follow-up Notice
Enforcement Category: Informal

Violation ID: 12009 Orig Code: S
Enforcemnt FY: 2010 Enforcement Action: 05/03/2010
Enforcement Detail: St Compliance achieved Enforcement Category: Resolving

Violation ID:	12009	Orig Code:	S
Enforcemnt FY:	2009	Enforcement Action:	08/05/2009
Enforcement Detail:	State CCR Follow-up Notice		
Enforcement Category:	Informal		

Violation ID:	12009	Orig Code:	S
Enforcemnt FY:	2010	Enforcement Action:	03/30/2010
Enforcement Detail:	St AO (w/penalty) issued	Enforcement Category:	Formal

Violation ID:	12109	Orig Code:	S
Enforcemnt FY:	2009	Enforcement Action:	08/19/2009
Enforcement Detail:	St Public Notif requested	Enforcement Category:	Informal

Violation ID:	12109	Orig Code:	S
Enforcemnt FY:	2009	Enforcement Action:	08/19/2009
Enforcement Detail:	St Violation/Reminder Notice		
Enforcement Category:	Informal		

Violation ID:	12109	Orig Code:	S
Enforcemnt FY:	2009	Enforcement Action:	09/03/2009
Enforcement Detail:	St Public Notif received	Enforcement Category:	Informal

Violation ID:	12210	Orig Code:	S
Enforcemnt FY:	2010	Enforcement Action:	09/14/2010
Enforcement Detail:	St Compliance achieved	Enforcement Category:	Resolving

Violation ID:	12210	Orig Code:	S
Enforcemnt FY:	2010	Enforcement Action:	05/12/2010
Enforcement Detail:	St Public Notif requested	Enforcement Category:	Informal

Violation ID:	12210	Orig Code:	S
Enforcemnt FY:	2010	Enforcement Action:	05/12/2010
Enforcement Detail:	St Violation/Reminder Notice		
Enforcement Category:	Informal		

PWS name:	BARNWELL GARDENS SUBDIVISION		
Population served:	97	PWS type code:	C
Violation ID:	10102	Contaminant:	7000
Violation type:	71	Compliance start date:	7/1/2002 0:00:00
Compliance end date:	7/18/2002 0:00:00	Enforcement date:	7/18/2002 0:00:00
Enforcement action:	State Compliance Achieved	Violation measurement:	Not Reported

PWS name:	BARNWELL GARDENS SUBDIVISION		
Population served:	97	PWS type code:	C
Violation ID:	10102	Contaminant:	7000
Violation type:	71	Compliance start date:	7/1/2002 0:00:00
Compliance end date:	7/18/2002 0:00:00	Enforcement date:	7/2/2002 0:00:00
Enforcement action:	State Violation/Reminder Notice		
Violation measurement:	Not Reported		

PWS name:	BARNWELL GARDENS SUBDIVISION		
Population served:	97	PWS type code:	C
Violation ID:	10303	Contaminant:	Coliform (Tcr)
Violation type:	Monitoring, Repeat Major (TCR)		
Compliance start date:	12/1/2002 0:00:00	Compliance end date:	12/31/2002 0:00:00
Enforcement date:	1/21/2003 0:00:00	Enforcement action:	State Violation/Reminder Notice
Violation measurement:	Not Reported		

PWS name:	BARNWELL GARDENS SUBDIVISION		
Population served:	97	PWS type code:	C
Violation ID:	10303	Contaminant:	Coliform (Tcr)
Violation type:	Monitoring, Repeat Major (TCR)		

Compliance start date:	12/1/2002 0:00:00	Compliance end date:	12/31/2002 0:00:00
Enforcement date:	1/21/2003 0:00:00	Enforcement action:	State Public Notif Requested
Violation measurement:	Not Reported		

PWS name:	BARNWELL GARDENS SUBDIVISION		
Population served:	97	PWS type code:	C
Violation ID:	10503	Contaminant:	7000
Violation type:	71	Compliance start date:	7/1/2003 0:00:00
Compliance end date:	9/17/2003 0:00:00	Enforcement date:	8/11/2003 0:00:00
Enforcement action:	SII	Violation measurement:	Not Reported

PWS name:	BARNWELL GARDENS SUBDIVISION		
Population served:	97	PWS type code:	C
Violation ID:	10503	Contaminant:	7000
Violation type:	71	Compliance start date:	7/1/2003 0:00:00
Compliance end date:	9/17/2003 0:00:00	Enforcement date:	9/17/2003 0:00:00
Enforcement action:	State Compliance Achieved	Violation measurement:	Not Reported

PWS name:	BARNWELL GARDENS SUBDIVISION		
Population served:	97	PWS type code:	C
Violation ID:	10604	Contaminant:	7000
Violation type:	71	Compliance start date:	7/1/2004 0:00:00
Compliance end date:	9/14/2004 0:00:00	Enforcement date:	8/20/2004 0:00:00
Enforcement action:	SII	Violation measurement:	Not Reported

PWS name:	BARNWELL GARDENS SUBDIVISION		
Population served:	97	PWS type code:	C
Violation ID:	10604	Contaminant:	7000
Violation type:	71	Compliance start date:	7/1/2004 0:00:00
Compliance end date:	9/14/2004 0:00:00	Enforcement date:	9/14/2004 0:00:00
Enforcement action:	State Compliance Achieved	Violation measurement:	Not Reported

PWS name:	BARNWELL GARDENS SUBDIVISION		
Population served:	97	PWS type code:	C
Violation ID:	10705	Contaminant:	Coliform (Tcr)
Violation type:	Monitoring, Routine Major (TCR)		
Compliance start date:	5/1/2005 0:00:00	Compliance end date:	5/31/2005 0:00:00
Enforcement date:	3/15/2007 0:00:00	Enforcement action:	State Formal NOV Issued
Violation measurement:	Not Reported		

PWS name:	BARNWELL GARDENS SUBDIVISION		
Population served:	97	PWS type code:	C
Violation ID:	10705	Contaminant:	Coliform (Tcr)
Violation type:	Monitoring, Routine Major (TCR)		
Compliance start date:	5/1/2005 0:00:00	Compliance end date:	5/31/2005 0:00:00
Enforcement date:	5/30/2006 0:00:00	Enforcement action:	State Compliance Meeting Conducted
Violation measurement:	Not Reported		

PWS name:	BARNWELL GARDENS SUBDIVISION		
Population served:	97	PWS type code:	C
Violation ID:	10705	Contaminant:	Coliform (Tcr)
Violation type:	Monitoring, Routine Major (TCR)		
Compliance start date:	5/1/2005 0:00:00	Compliance end date:	5/31/2005 0:00:00
Enforcement date:	5/9/2006 0:00:00	Enforcement action:	State Formal NOV Issued
Violation measurement:	Not Reported		

PWS name:	BARNWELL GARDENS SUBDIVISION		
Population served:	97	PWS type code:	C
Violation ID:	10705	Contaminant:	Coliform (Tcr)
Violation type:	Monitoring, Routine Major (TCR)		
Compliance start date:	5/1/2005 0:00:00	Compliance end date:	5/31/2005 0:00:00
Enforcement date:	6/27/2005 0:00:00	Enforcement action:	State Violation/Reminder Notice

Violation measurement: Not Reported

PWS name: BARNWELL GARDENS SUBDIVISION
Population served: 97 PWS type code: C
Violation ID: 10705 Contaminant: Coliform (Tcr)
Violation type: Monitoring, Routine Major (TCR)
Compliance start date: 5/1/2005 0:00:00 Compliance end date: 5/31/2005 0:00:00
Enforcement date: 6/27/2005 0:00:00 Enforcement action: State Public Notif Requested
Violation measurement: Not Reported

PWS name: BARNWELL GARDENS SUBDIVISION
Population served: 97 PWS type code: C
Violation ID: 10705 Contaminant: Coliform (Tcr)
Violation type: Monitoring, Routine Major (TCR)
Compliance start date: 5/1/2005 0:00:00 Compliance end date: 5/31/2005 0:00:00
Enforcement date: 7/14/2006 0:00:00 Enforcement action: State AO (w/penalty) Issued
Violation measurement: Not Reported

PWS name: BARNWELL GARDENS SUBDIVISION
Population served: 97 PWS type code: C
Violation ID: 10705 Contaminant: Coliform (Tcr)
Violation type: Monitoring, Routine Major (TCR)
Compliance start date: 5/1/2005 0:00:00 Compliance end date: 5/31/2005 0:00:00
Enforcement date: 8/21/2006 0:00:00 Enforcement action: State Public Notif Received
Violation measurement: Not Reported

PWS name: BARNWELL GARDENS SUBDIVISION
Population served: 97 PWS type code: C
Violation ID: 10805 Contaminant: 7000
Violation type: 71 Compliance start date: 7/1/2005 0:00:00
Compliance end date: 8/29/2006 0:00:00 Enforcement date: 10/3/2005 0:00:00
Enforcement action: SII Violation measurement: Not Reported

PWS name: BARNWELL GARDENS SUBDIVISION
Population served: 97 PWS type code: C
Violation ID: 10805 Contaminant: 7000
Violation type: 71 Compliance start date: 7/1/2005 0:00:00
Compliance end date: 8/29/2006 0:00:00 Enforcement date: 3/15/2007 0:00:00
Enforcement action: State Formal NOV Issued Violation measurement: Not Reported

PWS name: BARNWELL GARDENS SUBDIVISION
Population served: 97 PWS type code: C
Violation ID: 10805 Contaminant: 7000
Violation type: 71 Compliance start date: 7/1/2005 0:00:00
Compliance end date: 8/29/2006 0:00:00 Enforcement date: 7/14/2006 0:00:00
Enforcement action: State AO (w/penalty) Issued
Violation measurement: Not Reported

PWS name: BARNWELL GARDENS SUBDIVISION
Population served: 97 PWS type code: C
Violation ID: 10805 Contaminant: 7000
Violation type: 71 Compliance start date: 7/1/2005 0:00:00
Compliance end date: 8/29/2006 0:00:00 Enforcement date: 8/1/2005 0:00:00
Enforcement action: SII Violation measurement: Not Reported

PWS name: BARNWELL GARDENS SUBDIVISION
Population served: 97 PWS type code: C
Violation ID: 10805 Contaminant: 7000
Violation type: 71 Compliance start date: 7/1/2005 0:00:00
Compliance end date: 8/29/2006 0:00:00 Enforcement date: 8/29/2006 0:00:00
Enforcement action: State Compliance Achieved Violation measurement: Not Reported

PWS name: BARNWELL GARDENS SUBDIVISION
Population served: 97 | PWS type code: C
Violation ID: 10906 | Contaminant: Coliform (Tcr)
Violation type: Monitoring, Routine Major (TCR)
Compliance start date: 12/1/2005 0:00:00 | Compliance end date: 12/31/2005 0:00:00
Enforcement date: 1/23/2006 0:00:00 | Enforcement action: State Violation/Reminder Notice
Violation measurement: Not Reported

PWS name: BARNWELL GARDENS SUBDIVISION
Population served: 97 | PWS type code: C
Violation ID: 10906 | Contaminant: Coliform (Tcr)
Violation type: Monitoring, Routine Major (TCR)
Compliance start date: 12/1/2005 0:00:00 | Compliance end date: 12/31/2005 0:00:00
Enforcement date: 1/23/2006 0:00:00 | Enforcement action: State Public Notif Requested
Violation measurement: Not Reported

PWS name: BARNWELL GARDENS SUBDIVISION
Population served: 97 | PWS type code: C
Violation ID: 10906 | Contaminant: Coliform (Tcr)
Violation type: Monitoring, Routine Major (TCR)
Compliance start date: 12/1/2005 0:00:00 | Compliance end date: 12/31/2005 0:00:00
Enforcement date: 3/15/2007 0:00:00 | Enforcement action: State Formal NOV Issued
Violation measurement: Not Reported

PWS name: BARNWELL GARDENS SUBDIVISION
Population served: 97 | PWS type code: C
Violation ID: 10906 | Contaminant: Coliform (Tcr)
Violation type: Monitoring, Routine Major (TCR)
Compliance start date: 12/1/2005 0:00:00 | Compliance end date: 12/31/2005 0:00:00
Enforcement date: 5/30/2006 0:00:00 | Enforcement action: State Compliance Meeting Conducted
Violation measurement: Not Reported

PWS name: BARNWELL GARDENS SUBDIVISION
Population served: 97 | PWS type code: C
Violation ID: 10906 | Contaminant: Coliform (Tcr)
Violation type: Monitoring, Routine Major (TCR)
Compliance start date: 12/1/2005 0:00:00 | Compliance end date: 12/31/2005 0:00:00
Enforcement date: 5/9/2006 0:00:00 | Enforcement action: State Formal NOV Issued
Violation measurement: Not Reported

PWS name: BARNWELL GARDENS SUBDIVISION
Population served: 97 | PWS type code: C
Violation ID: 10906 | Contaminant: Coliform (Tcr)
Violation type: Monitoring, Routine Major (TCR)
Compliance start date: 12/1/2005 0:00:00 | Compliance end date: 12/31/2005 0:00:00
Enforcement date: 7/14/2006 0:00:00 | Enforcement action: State AO (w/penalty) Issued
Violation measurement: Not Reported

PWS name: BARNWELL GARDENS SUBDIVISION
Population served: 97 | PWS type code: C
Violation ID: 10906 | Contaminant: Coliform (Tcr)
Violation type: Monitoring, Routine Major (TCR)
Compliance start date: 12/1/2005 0:00:00 | Compliance end date: 12/31/2005 0:00:00
Enforcement date: 8/21/2006 0:00:00 | Enforcement action: State Public Notif Received
Violation measurement: Not Reported

PWS name: BARNWELL GARDENS SUBDIVISION
Population served: 97 | PWS type code: C
Violation ID: 11006 | Contaminant: Coliform (Tcr)
Violation type: Monitoring, Routine Major (TCR)
Compliance start date: 1/1/2006 0:00:00 | Compliance end date: 1/31/2006 0:00:00
Enforcement date: 2/22/2006 0:00:00 | Enforcement action: State Violation/Reminder Notice

Violation measurement: Not Reported

PWS name: BARNWELL GARDENS SUBDIVISION
Population served: 97 PWS type code: C
Violation ID: 11006 Contaminant: Coliform (Tcr)
Violation type: Monitoring, Routine Major (TCR)
Compliance start date: 1/1/2006 0:00:00 Compliance end date: 1/31/2006 0:00:00
Enforcement date: 2/22/2006 0:00:00 Enforcement action: State Public Notif Requested
Violation measurement: Not Reported

PWS name: BARNWELL GARDENS SUBDIVISION
Population served: 97 PWS type code: C
Violation ID: 11006 Contaminant: Coliform (Tcr)
Violation type: Monitoring, Routine Major (TCR)
Compliance start date: 1/1/2006 0:00:00 Compliance end date: 1/31/2006 0:00:00
Enforcement date: 3/15/2007 0:00:00 Enforcement action: State Formal NOV Issued
Violation measurement: Not Reported

PWS name: BARNWELL GARDENS SUBDIVISION
Population served: 97 PWS type code: C
Violation ID: 11006 Contaminant: Coliform (Tcr)
Violation type: Monitoring, Routine Major (TCR)
Compliance start date: 1/1/2006 0:00:00 Compliance end date: 1/31/2006 0:00:00
Enforcement date: 5/30/2006 0:00:00 Enforcement action: State Compliance Meeting Conducted
Violation measurement: Not Reported

PWS name: BARNWELL GARDENS SUBDIVISION
Population served: 97 PWS type code: C
Violation ID: 11006 Contaminant: Coliform (Tcr)
Violation type: Monitoring, Routine Major (TCR)
Compliance start date: 1/1/2006 0:00:00 Compliance end date: 1/31/2006 0:00:00
Enforcement date: 5/9/2006 0:00:00 Enforcement action: State Formal NOV Issued
Violation measurement: Not Reported

PWS name: BARNWELL GARDENS SUBDIVISION
Population served: 97 PWS type code: C
Violation ID: 11006 Contaminant: Coliform (Tcr)
Violation type: Monitoring, Routine Major (TCR)
Compliance start date: 1/1/2006 0:00:00 Compliance end date: 1/31/2006 0:00:00
Enforcement date: 7/14/2006 0:00:00 Enforcement action: State AO (w/penalty) Issued
Violation measurement: Not Reported

PWS name: BARNWELL GARDENS SUBDIVISION
Population served: 97 PWS type code: C
Violation ID: 11006 Contaminant: Coliform (Tcr)
Violation type: Monitoring, Routine Major (TCR)
Compliance start date: 1/1/2006 0:00:00 Compliance end date: 1/31/2006 0:00:00
Enforcement date: 8/21/2006 0:00:00 Enforcement action: State Public Notif Received
Violation measurement: Not Reported

PWS name: BARNWELL GARDENS SUBDIVISION
Population served: 97 PWS type code: C
Violation ID: 11106 Contaminant: 7000
Violation type: 71 Compliance start date: 7/1/2006 0:00:00
Compliance end date: 8/20/2006 0:00:00 Enforcement date: 3/15/2007 0:00:00
Enforcement action: State Formal NOV Issued Violation measurement: Not Reported

PWS name: BARNWELL GARDENS SUBDIVISION
Population served: 97 PWS type code: C
Violation ID: 11106 Contaminant: 7000
Violation type: 71 Compliance start date: 7/1/2006 0:00:00
Compliance end date: 8/20/2006 0:00:00 Enforcement date: 7/14/2006 0:00:00

Enforcement action: State AO (w/penalty) Issued
Violation measurement: Not Reported

PWS name: BARNWELL GARDENS SUBDIVISION
Population served: 97 PWS type code: C
Violation ID: 11106 Contaminant: 7000
Violation type: 71 Compliance start date: 7/1/2006 0:00:00
Compliance end date: 8/20/2006 0:00:00 Enforcement date: 8/15/2006 0:00:00
Enforcement action: SII Violation measurement: Not Reported

PWS name: BARNWELL GARDENS SUBDIVISION
Population served: 97 PWS type code: C
Violation ID: 11106 Contaminant: 7000
Violation type: 71 Compliance start date: 7/1/2006 0:00:00
Compliance end date: 8/20/2006 0:00:00 Enforcement date: 8/20/2006 0:00:00
Enforcement action: State Compliance Achieved Violation measurement: Not Reported

PWS name: BARNWELL GARDENS SUBDIVISION
Population served: 97 PWS type code: C
Violation ID: 11207 Contaminant: 7000
Violation type: 71 Compliance start date: 7/1/2007 0:00:00
Compliance end date: 9/28/2007 0:00:00 Enforcement date: 8/31/2007 0:00:00
Enforcement action: SII Violation measurement: Not Reported

PWS name: BARNWELL GARDENS SUBDIVISION
Population served: 97 PWS type code: C
Violation ID: 11207 Contaminant: 7000
Violation type: 71 Compliance start date: 7/1/2007 0:00:00
Compliance end date: 9/28/2007 0:00:00 Enforcement date: 9/28/2007 0:00:00
Enforcement action: State Compliance Achieved Violation measurement: Not Reported

PWS name: BARNWELL GARDENS SUBDIVISION
Population served: 97 PWS type code: C
Violation ID: 11308 Contaminant: Coliform (Tcr)
Violation type: Monitoring, Routine Major (TCR)
Compliance start date: 3/1/2008 0:00:00 Compliance end date: 3/31/2008 0:00:00
Enforcement date: 4/18/2008 0:00:00 Enforcement action: State Violation/Reminder Notice
Violation measurement: Not Reported

PWS name: BARNWELL GARDENS SUBDIVISION
Population served: 97 PWS type code: C
Violation ID: 11308 Contaminant: Coliform (Tcr)
Violation type: Monitoring, Routine Major (TCR)
Compliance start date: 3/1/2008 0:00:00 Compliance end date: 3/31/2008 0:00:00
Enforcement date: 4/18/2008 0:00:00 Enforcement action: State Public Notif Requested
Violation measurement: Not Reported

PWS name: BARNWELL GARDENS SUBDIVISION
Population served: 97 PWS type code: C
Violation ID: 11408 Contaminant: 7000
Violation type: 71 Compliance start date: 7/1/2008 0:00:00
Compliance end date: 12/31/2025 0:00:00 Enforcement date: 8/12/2008 0:00:00
Enforcement action: SII Violation measurement: Not Reported

PWS name: BARNWELL GARDENS SUBDIVISION
Population served: 97 PWS type code: C
Violation ID: 11508 Contaminant: Coliform (Tcr)
Violation type: Monitoring, Repeat Minor (TCR)
Compliance start date: 6/1/2008 0:00:00 Compliance end date: 6/30/2008 0:00:00
Enforcement date: 7/18/2008 0:00:00 Enforcement action: State Violation/Reminder Notice
Violation measurement: Not Reported

PWS name:	BARNWELL GARDENS SUBDIVISION		
Population served:	97	PWS type code:	C
Violation ID:	11508	Contaminant:	Coliform (Tcr)
Violation type:	Monitoring, Repeat Minor (TCR)		
Compliance start date:	6/1/2008 0:00:00	Compliance end date:	6/30/2008 0:00:00
Enforcement date:	7/18/2008 0:00:00	Enforcement action:	State Public Notif Requested
Violation measurement:	Not Reported		

PWS name:	BARNWELL GARDENS SUBDIVISION		
Population served:	97	PWS type code:	C
Violation ID:	11608	Contaminant:	Coliform (Tcr)
Violation type:	Monitoring, Routine Minor (TCR)		
Compliance start date:	7/1/2008 0:00:00	Compliance end date:	7/31/2008 0:00:00
Enforcement date:	8/23/2008 0:00:00	Enforcement action:	State Violation/Reminder Notice
Violation measurement:	Not Reported		

PWS name:	BARNWELL GARDENS SUBDIVISION		
Population served:	97	PWS type code:	C
Violation ID:	11608	Contaminant:	Coliform (Tcr)
Violation type:	Monitoring, Routine Minor (TCR)		
Compliance start date:	7/1/2008 0:00:00	Compliance end date:	7/31/2008 0:00:00
Enforcement date:	8/23/2008 0:00:00	Enforcement action:	State Public Notif Requested
Violation measurement:	Not Reported		

PWS name:	BARNWELL GARDENS SUBDIVISION		
Population served:	97	PWS type code:	C
Violation ID:	11709	Contaminant:	Coliform (Tcr)
Violation type:	Max Contaminant Level, Monthly (TCR)		
Compliance start date:	9/1/2008 0:00:00	Compliance end date:	9/30/2008 0:00:00
Enforcement date:	10/6/2008 0:00:00	Enforcement action:	State Violation/Reminder Notice
Violation measurement:	Not Reported		

PWS name:	BARNWELL GARDENS SUBDIVISION		
Population served:	97	PWS type code:	C
Violation ID:	11709	Contaminant:	Coliform (Tcr)
Violation type:	Max Contaminant Level, Monthly (TCR)		
Compliance start date:	9/1/2008 0:00:00	Compliance end date:	9/30/2008 0:00:00
Enforcement date:	10/6/2008 0:00:00	Enforcement action:	State Public Notif Requested
Violation measurement:	Not Reported		

PWS name:	BARNWELL GARDENS SUBDIVISION		
Population served:	97	PWS type code:	C
Violation ID:	11809	Contaminant:	Coliform (Tcr)
Violation type:	Monitoring, Routine Minor (TCR)		
Compliance start date:	10/1/2008 0:00:00	Compliance end date:	10/31/2008 0:00:00
Enforcement date:	11/20/2008 0:00:00	Enforcement action:	State Violation/Reminder Notice
Violation measurement:	Not Reported		

PWS name:	BARNWELL GARDENS SUBDIVISION		
Population served:	97	PWS type code:	C
Violation ID:	11809	Contaminant:	Coliform (Tcr)
Violation type:	Monitoring, Routine Minor (TCR)		
Compliance start date:	10/1/2008 0:00:00	Compliance end date:	10/31/2008 0:00:00
Enforcement date:	11/20/2008 0:00:00	Enforcement action:	State Public Notif Requested
Violation measurement:	Not Reported		

Map ID
Direction
Distance
Elevation | Database | EDR ID Number

I39
SE
1 - 2 Miles
Lower

FRDS PWS **GA0510162**

Epa region:	04	State:	GA
Pwsid:	GA0510162	Pwsname:	BUILDERS TRANSPORT INC.
Cityserved:	Not Reported	Stateserved:	GA
Zipserved:	Not Reported	Fipscounty:	13051
Status:	Closed	Retpopsrvd:	65
Pwssvcconn:	3	Psource longname:	Groundwater
Pwstype:	NTNCWS	Owner:	Private
Contact:	BUILDERS TRANSPORT INC.	Contactorgname:	Not Reported
Contactphone:	912-964-1313	Contactaddress1:	BUILDER'S TRANSPORT INC.
Contactaddress2:	POB 2726	Contactcity:	SAVANNAH
Contactstate:	GA	Contactzip:	314982726
Pwsactivitycode:	I		

PWS ID:	GA0510162	PWS type:	Not Reported
PWS name:	Not Reported	PWS address:	Not Reported
PWS city:	Not Reported	PWS state:	Not Reported
PWS zip:	Not Reported	PWS ID:	GA0510162
Activity status:	Active	Date system activated:	Not Reported
Date system deactivated:	Not Reported	Retail population:	00000050
System name:	BUILDERS TRANSPORT INC.	System address:	BUILDERS TRANSPORT, INC.
System address:	POB 7005	System city:	CAMDEN
System state:	SC	System zip:	290207005

Population served:	Under 101 Persons	Treatment:	Untreated
Latitude:	341447	Longitude:	0803625
Latitude:	320724	Longitude:	0811005

PWS currently has or had major violation(s) or enforcement:Yes

Violation ID:	9200001	Violation source ID:	Not Reported
PWS telephone:	Not Reported	Contaminant:	Coliform (Tcr)
Violation type:	Monitoring, Routine Major (TCR)		
Violation start date:	070192	Violation end date:	093092
Violation period (months):	003	Violation awareness date:	Not Reported
Major violator:	Yes	Maximum contaminant level:	Not Reported
Number of required samples:	Not Reported	Number of samples taken:	Not Reported
Analysis method:	Not Reported	Analysis result:	Not Reported

J40
SSW
1 - 2 Miles
Lower

FRDS PWS **GA0510102**

Epa region:	04	State:	GA
Pwsid:	GA0510102	Pwsname:	SAVANNAH-TRAVIS FIELD
Cityserved:	Not Reported	Stateserved:	GA
Zipserved:	Not Reported	Fipscounty:	13051
Status:	Closed	Retpopsrvd:	304
Pwssvcconn:	117	Psource longname:	Groundwater
Pwstype:	CWS	Owner:	Local_Govt
Contact:	JUE, HARRY	Contactorgname:	Not Reported
Contactphone:	912-651-4241	Contactaddress1:	POB 1027

Contactaddress2:	Not Reported	Contactcity:	SAVANNAH
Contactstate:	GA	Contactzip:	314021027
Pwsactivitycode:	I		
Pwsid:	GA0510102	Facid:	3972
Facname:	WELL #17 PLANT	Factype:	Treatment_plant
Facactivitycode:	I	Trtobjective:	disinfection
Trtprocess:	hypochlorination, post	Factypecode:	TP
Pwsid:	GA0510102	Facid:	3979
Facname:	WELL #18 PLANT	Factype:	Treatment_plant
Facactivitycode:	I	Trtobjective:	disinfection
Trtprocess:	hypochlorination, post	Factypecode:	TP
Pwsid:	GA0510102	Facid:	3985
Facname:	WELL #19 PLANT	Factype:	Treatment_plant
Facactivitycode:	I	Trtobjective:	disinfection
Trtprocess:	hypochlorination, post	Factypecode:	TP
PWS ID:	GA0510102	PWS type:	Not Reported
PWS name:	Not Reported	PWS address:	Not Reported
PWS city:	Not Reported	PWS state:	Not Reported
PWS zip:	Not Reported	PWS ID:	GA0510102
Activity status:	Active	Date system activated:	Not Reported
Date system deactivated:	Not Reported	Retail population:	00001100
System name:	SAVANNAH-TRAVIS FIELD	System address:	SAVANNAH-TRAVIS FIELD
System address:	702 STILES AVE	System city:	SAVANNAH
System state:	GA	System zip:	31402
Population served:	1,001 - 2,500 Persons	Treatment:	Treated
Latitude:	320731	Longitude:	0811140
Latitude:	320705	Longitude:	0811140
Latitude:	320710	Longitude:	0811136
State:	GA	Latitude degrees:	32
Latitude minutes:	7	Latitude seconds:	5.0000
Longitude degrees:	81	Longitude minutes:	11
Longitude seconds:	40.0000		
State:	GA	Latitude degrees:	32
Latitude minutes:	7	Latitude seconds:	10.0000
Longitude degrees:	81	Longitude minutes:	11
Longitude seconds:	36.0000		
State:	GA	Latitude degrees:	32
Latitude minutes:	7	Latitude seconds:	31.0000
Longitude degrees:	81	Longitude minutes:	11
Longitude seconds:	40.0000		

J41
SSW
1 - 2 Miles
Lower

FED USGS **USGS40000259520**

Organization ID:	USGS-GA	Organization Name:	USGS Georgia Water Science Center
Monitor Location:	36Q013	Type:	Well
Description:	SAVANNAH, GA 18	HUC:	03060109
Drainage Area:	Not Reported	Drainage Area Units:	Not Reported

Contrib Drainage Area:	Not Reported	Contrib Drainage Area Unts:	Not Reported
Aquifer:	Floridan aquifer system	Formation Type:	Upper Floridan Aquifer
Aquifer Type:	Confined multiple aquifer	Construction Date:	19420901
Well Depth:	681	Well Depth Units:	ft
Well Hole Depth:	681	Well Hole Depth Units:	ft

Ground water levels,Number of Measurements:	18	Level reading date:	1998-05-25
Feet below surface:	92.88	Feet to sea level:	Not Reported
Note:	Not Reported		

Level reading date:	1988-05-25	Feet below surface:	99.41
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1985-05-21	Feet below surface:	95.52
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1984-10-31	Feet below surface:	93.30
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1984-04-30	Feet below surface:	86.65
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1983-11-04	Feet below surface:	91.80
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1982-11-02	Feet below surface:	87.50
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1981-10-26	Feet below surface:	90.42
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1981-05-21	Feet below surface:	90.25
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1980-05-19	Feet below surface:	85.90
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1979-10-29	Feet below surface:	90.00
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1978-12-04	Feet below surface:	91.10
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1977-11-07	Feet below surface:	91.40
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1976-12-14	Feet below surface:	83.90
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1976-01-12	Feet below surface:	76.60
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1975-05-02	Feet below surface:	81.80
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1973-11-29	Feet below surface:	86.50
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1942-10-09	Feet below surface:	40.26
Feet to sea level:	Not Reported	Note:	Not Reported

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Map ID
Direction
Distance
Elevation | Database | EDR ID Number

J42
SSW
1 - 2 Miles
Lower

GA WELLS **0000001897**

County code:	051	Well num:	36Q013
Remarks:	SAVANNAH, GA 18	Lat:	320710
Lon:	0811143	Latlon datum:	NAD27
Alt:	34.27	Alt datum:	NGVD29
Depth:	681	Depth to casing:	269.00
Casing dia:	10.00	Casing matl:	Not Reported
Depth to top:	269.00	Depth to bot:	681.00
Opening type:	X	Constr date:	194209
Discharge:	825.00	Prim use:	P
Aquifer code:	120FLRDU	Edr id:	0000001897

43
North
1 - 2 Miles
Lower

FED USGS **USGS40000259664**

Organization ID:	USGS-GA	Organization Name:	USGS Georgia Water Science Center
Monitor Location:	36R025	Type:	Well
Description:	Not Reported	HUC:	03060109
Drainage Area:	Not Reported	Drainage Area Units:	Not Reported
Contrib Drainage Area:	Not Reported	Contrib Drainage Area Unts:	Not Reported
Aquifer:	Not Reported	Formation Type:	Not Reported
Aquifer Type:	Not Reported	Construction Date:	Not Reported
Well Depth:	Not Reported	Well Depth Units:	Not Reported
Well Hole Depth:	Not Reported	Well Hole Depth Units:	Not Reported

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K44
SSW
1 - 2 Miles
Lower

GA WELLS **617**

Id:	617	Water source id:	25M4B18
Name:	CITY OF SAVANNAH-TRAVIS F	Latitude:	32.1192
Longitude:	81.1953	Source:	G
Gw mgd:	0.67	Sw mgd:	0.00
Status:	1	Gwsi id:	36Q013
Population:	0	County:	CHATHAM
County fips:	51	Ggs:	1

K45
SSW
1 - 2 Miles
Lower

FRDS PWS **GA0510102**

Epa region:	04	State:	GA
Pwsid:	GA0510102	Pwsname:	SAVANNAH-TRAVIS FIELD
Cityserved:	Not Reported	Stateserved:	GA
Zipserved:	Not Reported	Fipscounty:	13051
Status:	Closed	Retpopsrvd:	304
Pwssvcconn:	117	Psource longname:	Groundwater
Pwstype:	CWS	Owner:	Local_Govt

Contact:	JUE, HARRY	Contactorgname:	Not Reported
Contactphone:	912-651-4241	Contactaddress1:	POB 1027
Contactaddress2:	Not Reported	Contactcity:	SAVANNAH
Contactstate:	GA	Contactzip:	314021027
Pwsactivitycode:	I		

Pwsid:	GA0510102	Facid:	3972
Facname:	WELL #17 PLANT	Factype:	Treatment_plant
Facactivitycode:	I	Trtobjective:	disinfection
Trtprocess:	hypochlorination, post	Factypecode:	TP

Pwsid:	GA0510102	Facid:	3979
Facname:	WELL #18 PLANT	Factype:	Treatment_plant
Facactivitycode:	I	Trtobjective:	disinfection
Trtprocess:	hypochlorination, post	Factypecode:	TP

Pwsid:	GA0510102	Facid:	3985
Facname:	WELL #19 PLANT	Factype:	Treatment_plant
Facactivitycode:	I	Trtobjective:	disinfection
Trtprocess:	hypochlorination, post	Factypecode:	TP

PWS ID:	GA0510102	PWS type:	Not Reported
PWS name:	Not Reported	PWS address:	Not Reported
PWS city:	Not Reported	PWS state:	Not Reported
PWS zip:	Not Reported	PWS ID:	GA0510102
Activity status:	Active	Date system activated:	Not Reported
Date system deactivated:	Not Reported	Retail population:	00001100
System name:	SAVANNAH-TRAVIS FIELD	System address:	SAVANNAH-TRAVIS FIELD
System address:	702 STILES AVE	System city:	SAVANNAH
System state:	GA	System zip:	31402

Population served:	1,001 - 2,500 Persons	Treatment:	Treated

Latitude:	320731	Longitude:	0811140

Latitude:	320705	Longitude:	0811140

Latitude:	320710	Longitude:	0811136

State:	GA	Latitude degrees:	32
Latitude minutes:	7	Latitude seconds:	5.0000
Longitude degrees:	81	Longitude minutes:	11
Longitude seconds:	40.0000		

State:	GA	Latitude degrees:	32
Latitude minutes:	7	Latitude seconds:	10.0000
Longitude degrees:	81	Longitude minutes:	11
Longitude seconds:	36.0000		

State:	GA	Latitude degrees:	32
Latitude minutes:	7	Latitude seconds:	31.0000
Longitude degrees:	81	Longitude minutes:	11
Longitude seconds:	40.0000		

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS
RADON

AREA RADON INFORMATION

Federal EPA Radon Zone for CHATHAM County: 3

Note: Zone 1 indoor average level > 4 pCi/L.
: Zone 2 indoor average level >= 2 pCi/L and <= 4 pCi/L.
: Zone 3 indoor average level < 2 pCi/L.

Federal Area Radon Information for CHATHAM COUNTY, GA

Number of sites tested: 21

Area	Average Activity	% <4 pCi/L	% 4-20 pCi/L	% >20 pCi/L
Living Area - 1st Floor	0.881 pCi/L	100%	0%	0%
Living Area - 2nd Floor	Not Reported	Not Reported	Not Reported	Not Reported
Basement	Not Reported	Not Reported	Not Reported	Not Reported

PHYSICAL SETTING SOURCE RECORDS SEARCHED

TOPOGRAPHIC INFORMATION

USGS 7.5' Digital Elevation Model (DEM)
Source: United States Geologic Survey
EDR acquired the USGS 7.5' Digital Elevation Model in 2002 and updated it in 2006. The 7.5 minute DEM corresponds to the USGS 1:24,000- and 1:25,000-scale topographic quadrangle maps. The DEM provides elevation data with consistent elevation units and projection.

HYDROLOGIC INFORMATION

Flood Zone Data: This data was obtained from the Federal Emergency Management Agency (FEMA). It depicts 100-year and 500-year flood zones as defined by FEMA. It includes the National Flood Hazard Layer (NFHL) which incorporates Flood Insurance Rate Map (FIRM) data and Q3 data from FEMA in areas not covered by NFHL.
Source: FEMA
Telephone: 877-336-2627
Date of Government Version: 2003, 2015

NWI: National Wetlands Inventory. This data, available in select counties across the country, was obtained by EDR in 2002, 2005, 2010 and 2015 from the U.S. Fish and Wildlife Service.

State Wetlands Data: Wetlands Inventory
Source: Georgia GIS Clearinghouse
Telephone: 706-542-1581

HYDROGEOLOGIC INFORMATION

AQUIFLOW^{R} Information System
Source: EDR proprietary database of groundwater flow information
EDR has developed the AQUIFLOW Information System (AIS) to provide data on the general direction of groundwater flow at specific points. EDR has reviewed reports submitted to regulatory authorities at select sites and has extracted the date of the report, hydrogeologically determined groundwater flow direction and depth to water table information.

GEOLOGIC INFORMATION

Geologic Age and Rock Stratigraphic Unit
Source: P.G. Schruben, R.E. Arndt and W.J. Bawiec, Geology of the Conterminous U.S. at 1:2,500,000 Scale - A digital representation of the 1974 P.B. King and H.M. Beikman Map, USGS Digital Data Series DDS - 11 (1994).

STATSGO: State Soil Geographic Database
Source: Department of Agriculture, Natural Resources Conservation Service (NRCS)
The U.S. Department of Agriculture's (USDA) Natural Resources Conservation Service (NRCS) leads the national Conservation Soil Survey (NCSS) and is responsible for collecting, storing, maintaining and distributing soil survey information for privately owned lands in the United States. A soil map in a soil survey is a representation of soil patterns in a landscape. Soil maps for STATSGO are compiled by generalizing more detailed (SSURGO) soil survey maps.

SSURGO: Soil Survey Geographic Database
Source: Department of Agriculture, Natural Resources Conservation Service (NRCS)
Telephone: 800-672-5559
SSURGO is the most detailed level of mapping done by the Natural Resources Conservation Service, mapping scales generally range from 1:12,000 to 1:63,360. Field mapping methods using national standards are used to construct the soil maps in the Soil Survey Geographic (SSURGO) database. SSURGO digitizing duplicates the original soil survey maps. This level of mapping is designed for use by landowners, townships and county natural resource planning and management.

PHYSICAL SETTING SOURCE RECORDS SEARCHED

LOCAL / REGIONAL WATER AGENCY RECORDS

FEDERAL WATER WELLS

PWS: Public Water Systems
Source: EPA/Office of Drinking Water
Telephone: 202-564-3750
Public Water System data from the Federal Reporting Data System. A PWS is any water system which provides water to at least 25 people for at least 60 days annually. PWSs provide water from wells, rivers and other sources.

PWS ENF: Public Water Systems Violation and Enforcement Data
Source: EPA/Office of Drinking Water
Telephone: 202-564-3750
Violation and Enforcement data for Public Water Systems from the Safe Drinking Water Information System (SDWIS) after August 1995. Prior to August 1995, the data came from the Federal Reporting Data System (FRDS).

USGS Water Wells: USGS National Water Inventory System (NWIS)
This database contains descriptive information on sites where the USGS collects or has collected data on surface water and/or groundwater. The groundwater data includes information on wells, springs, and other sources of groundwater.

OTHER STATE DATABASE INFORMATION

A listing of Private Water Well locations
Georgia Department of Public Health
Telephone: (404) 657-2700
A listing of Private Water Well locations

Georgia Public Supply Wells
Source: Georgia Department of Community Affairs
Telephone: 404-894-0127

USGS Georgia Water Wells
Source: USGS, Georgia District Office
Telephone: 770-903-9100

DNR Managed Lands
Source: Department of Natural Resources
Telephone: 706-557-3032
This dataset provides 1:24,000-scale data depicting boundaries of land parcels making up the public lands managed by the Georgia Department of Natural Resources (GDNR). It includes polygon representations of State Parks, State Historic Parks, State Conservation Parks, State Historic Sites, Wildlife Management Areas, Public Fishing Areas, Fish Hatcheries, Natural Areas and other specially-designated areas. The data were collected and located by the Georgia Department of Natural Resources. Boundaries were digitized from survey plats or other information.

RADON

Area Radon Information
Source: USGS
Telephone: 703-356-4020
The National Radon Database has been developed by the U.S. Environmental Protection Agency (USEPA) and is a compilation of the EPA/State Residential Radon Survey and the National Residential Radon Survey. The study covers the years 1986 - 1992. Where necessary data has been supplemented by information collected at private sources such as universities and research institutions.

EPA Radon Zones
Source: EPA
Telephone: 703-356-4020
Sections 307 & 309 of IRAA directed EPA to list and identify areas of U.S. with the potential for elevated indoor radon levels.

PHYSICAL SETTING SOURCE RECORDS SEARCHED

OTHER

Airport Landing Facilities: Private and public use landing facilities
Source: Federal Aviation Administration, 800-457-6656

Epicenters: World earthquake epicenters, Richter 5 or greater
Source: Department of Commerce, National Oceanic and Atmospheric Administration

Earthquake Fault Lines: The fault lines displayed on EDR's Topographic map are digitized quaternary faultlines, prepared in 1975 by the United State Geological Survey

STREET AND ADDRESS INFORMATION

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