



Georgia Power Company
Plant McIntosh Inactive Landfill No. 3
Permit No. 051-008D(CCR)
Effingham County

**2023 ANNUAL GROUNDWATER MONITORING AND
CORRECTIVE ACTION REPORT**




**ATLANTIC COAST
CONSULTING, INC.**

PROFESSIONAL CERTIFICATION

This 2023 Annual Groundwater Monitoring and Corrective Action Report, Georgia Power Company – Plant McIntosh Inactive Landfill No. 3 has been prepared in compliance with the Georgia Environmental Protection Division (EPD) Rules for Solid Waste Management 391-3-4-.10 by a qualified groundwater scientist or engineer with Atlantic Coast Consulting, Inc. (ACC). I hereby certify that I am a qualified groundwater scientist, in accordance with the Georgia Rules of Solid Waste Management 391-3-4-.01.

ATLANTIC COAST CONSULTING, INC.



Charles B. Adams, P.G.
Project Manager
Date: July 31, 2023



Chad Hall, PhD, P.E.
Senior Professional Engineer
Date: July 31, 2023

SUMMARY

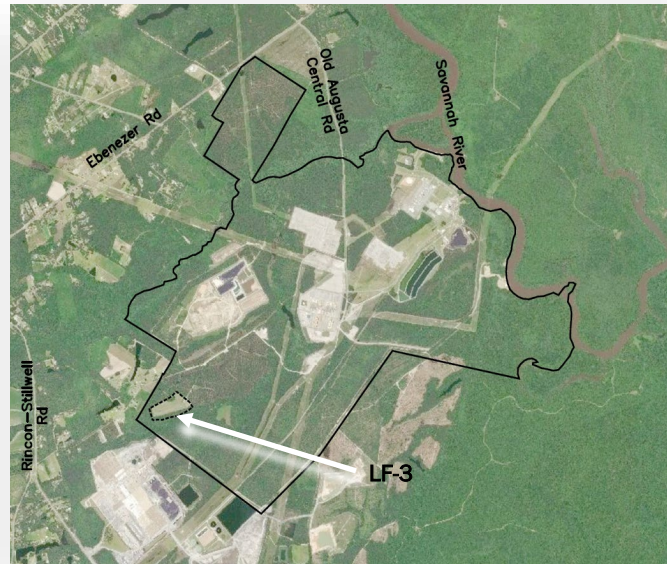
This summary of the *2023 Annual Groundwater Monitoring and Corrective Action Report* provides the groundwater monitoring and corrective action program status from July 2022 through June 2023 for Georgia Power Company (Georgia Power) Plant McIntosh Inactive Landfill No. 3 (Site). This summary was prepared by Atlantic Coast Consulting, Inc. (ACC) on behalf of Georgia Power.

Plant McIntosh is located at 981 Old Augusta Central Road, in Effingham County, Georgia, approximately four miles northeast of the City of Rincon, and 20 miles north of the City of Savannah. The plant is situated on approximately 2,300 acres west of the Savannah River. The Site is located on the southwestern portion of the plant property.

The Site is monitored using a comprehensive monitoring system of wells installed to meet monitoring requirements of the Coal Combustion Residuals Permit (051-008D(CCR)). The CCR Permit for the unit was approved by EPD on March 16, 2023. Routine sampling and reporting began after background groundwater conditions were established in accordance with the former Solid Waste Permit requirements specified in the Design and Operation (D&O) Plan. The monitoring program has been modified to include Appendix III parameters to meet the requirements of the Georgia EPD Rules for Solid Waste Management 391-3-4-.10(6)(a). Background groundwater conditions for Appendix III and IV parameters were established between September 2016 and October 2018. During the 2023 annual reporting period, the Site remained in detection monitoring.

During the 2023 annual reporting period, ACC conducted groundwater sampling events in August 2022 and January 2023. Groundwater samples were submitted to Eurofins Environment Testing America (Eurofins) for analysis. Per the Coal Combustion Residuals (CCR) Rule, groundwater results for August 2022 and January 2023 data were evaluated in accordance with the certified statistical methods. That evaluation showed there are no statistically significant increases (SSIs) of Appendix III parameters [boron, calcium, chloride, fluoride, pH, sulfate, and total dissolved solids (TDS)].

Based on review of the Appendix III statistical results completed for the groundwater monitoring and corrective action program from July 2022 through June 2023, the Site will continue in detection monitoring. Georgia Power will continue routine groundwater monitoring and reporting of the Site. Reports will be posted to the website and provided to Georgia EPD semiannually.



Plant McIntosh and Inactive Landfill No. 3

TABLE OF CONTENTS

Section	Page No.
1.0 INTRODUCTION	1
1.1 Site Description and Background	1
1.2 Regional Geology and Hydrogeologic Setting	1
1.3 Groundwater Monitoring Well Network and CCR Unit Description	1
2.0 GROUNDWATER MONITORING ACTIVITIES.....	2
2.1 Monitoring Well Installation and Maintenance.....	2
2.2 Detection Monitoring Program.....	3
2.3 Additional Sampling.....	3
3.0 SAMPLE METHODOLOGY AND ANALYSIS.....	3
3.1 Groundwater Flow Direction, Gradient, and Velocity.....	3
3.2 Groundwater Sampling.....	4
3.3 Laboratory Analyses	4
3.4 Quality Assurance and Quality Control	5
4.0 STATISTICAL ANALYSIS.....	5
4.1 Methods	5
4.2 Statistical Analyses Results	6
4.2.1 Summary of Results for State Appendix I Parameters	6
4.2.2 Summary of Results for Appendix III Parameters	6
5.0 ALTERNATE SOURCE DEMONSTRATIONS	7
6.0 MONITORING PROGRAM STATUS	7
7.0 CONCLUSIONS AND FUTURE ACTIONS.....	7
8.0 REFERENCES	8

Tables

- Table 1A – Detection Monitoring Well Summary
- Table 1B – Piezometer Summary
- Table 2 – Groundwater Sampling Event Summary
- Table 3A – Summary of Groundwater Elevations – August 2022
- Table 3B – Summary of Groundwater Elevations – January 2023
- Table 4A – Horizontal Groundwater Flow Velocity Calculations – August 2022
- Table 4B – Horizontal Groundwater Flow Velocity Calculations – January 2023
- Table 5A – Summary of Groundwater Analytical Data – August 2022
- Table 5B – Summary of Groundwater Analytical Data – January 2023
- Table 5C – Summary of Groundwater Anion and Cation Data – January 2023
- Table 6 – Statistical Method Summary

Figures

- Figure 1 – Site Location Map
- Figure 2 – Well Location Map
- Figure 3A – Potentiometric Contour Map – August 2022
- Figure 3B – Potentiometric Contour Map – January 2023

Appendices

- Appendix A – Well Abandonment Report
- Appendix B – Laboratory Analytical and Field Sampling Reports
- Appendix C – Statistical Analysis Reports
- Appendix D – Alternate Source Demonstration

1.0 INTRODUCTION

In accordance with the United States Environmental Protection Agency (US EPA) Coal Combustion Residuals (CCR) Rule (40 Code of Federal Regulations [CFR] 257 Subpart D) and the Georgia Environmental Protection Division (EPD) Rules for Solid Waste Management 391-3-4-.10 and 391-3-4-.14, Atlantic Coast Consulting, Inc. (ACC) has prepared this *2023 Annual Groundwater Monitoring and Corrective Action Report* to document groundwater monitoring activities conducted for the reporting period of July 2022 through June 2023 at Plant McIntosh Inactive Landfill No. 3 (Site). Semiannual monitoring and reporting for the CCR Unit are performed in accordance with the monitoring requirements of Georgia EPD Rules for Solid Waste Management 391-3-4-.10(6)(a).

Groundwater monitoring is currently performed in accordance with the CCR Permit (051-008D(CCR)) requirements specified in the Groundwater Monitoring Plan - GWMP (GEI, 2022). An application for a new Georgia CCR permit was submitted to Georgia EPD in November 2018 for the facility to replace the existing Solid Waste Permit and was approved by Georgia EPD on March 16, 2023. The previous Solid Waste Permit 051-008D(LI) has been incorporated into the requirements of CCR Permit 051-008D(CCR).

This report provides the results of the sampling events conducted in August 2022 and January 2023 and includes: (1) a state-modified list of Appendix I detection parameters according to Georgia EPD Rule 391-3-4-.14 and the approved Solid Waste Permit; and (2) CCR detection monitoring sampling events for Appendix III constituents.

This document serves as the *2023 Annual Groundwater Monitoring and Corrective Action Report* in accordance with Georgia EPD Rule 391-3-4-.10(6)(a).

1.1 Site Description and Background

Plant McIntosh is located at 981 Old Augusta Central Road, in Effingham County, Georgia, approximately four miles northeast of the City of Rincon, and 20 miles north of the City of Savannah. The plant is situated on approximately 2,300 acres (Figure 1, Site Location Map) west of the Savannah River. The Site is located on the southwestern portion of the plant property.

1.2 Regional Geology and Hydrogeologic Setting

Plant McIntosh is located in the Atlantic Coastal Plain Physiographic Province and situated on sediments that were deposited from the Cretaceous to Pleistocene periods. Regional lithology consists of stratified marine deposits and materials eroded from crystalline rock of the Piedmont Physiographic Province. Boring logs describe soils as interbedded clays, silts, and sands typical of Atlantic Coastal Plain sediments.

Monitoring wells and piezometers are screened in the surficial aquifer between approximately 45 and 10 feet North American Vertical Datum of 1988 (NAVD88). The predominant groundwater flow direction across Plant McIntosh is to the north/northeast.

1.3 Groundwater Monitoring Well Network and CCR Unit Description

A groundwater monitoring system was installed within the uppermost aquifer at Plant McIntosh Inactive Landfill No. 3. The monitoring system is designed to monitor groundwater passing the waste boundary of the CCR Unit within the uppermost aquifer. The monitoring well locations are depicted in Figure 2, Well Location Map. Wells were located to serve as upgradient and

downgradient monitoring points based on groundwater flow direction (Table 1A, Detection Monitoring Well Summary). Existing locations not included in the monitoring network are presented in Table 1B, Piezometer Summary.

Prior to approval of the CCR permit, a request for minor modification to the permit was submitted on October 6, 2022, to update the Design and Operation (D&O) Plan to remove four groundwater monitoring wells from the network (GWA-1A, GWC-1, GWC-5, and GWC-6) and add two piezometers (PZ-4 and PZ-5) for water level measurements. The four wells have had higher groundwater elevations than other Site wells and rationale for abandonment was provided in the minor modification. Each of the wells has an adjacent well counterpart (GWA-1B, GWC-1A, GWC-5A, GWC-6A) that is installed in the uppermost water bearing zone to yield representative groundwater samples. Georgia EPD approved the minor modification in a letter dated December 19, 2022. The wells (GWA-1A, GWC-1, GWC-5, and GWC-6) were abandoned February 7, 2023, and the adjacent well counterparts are now the respective detection monitoring wells incorporated into the approved CCR GWMP (Georgia Power, 2023). A well abandonment report was provided to Georgia EPD under a separate cover as GEOS Submittal ID: 739739 (copy in Appendix A). Tables 1A and 1B have been updated in accordance with the Georgia EPD approved minor modification.

2.0 GROUNDWATER MONITORING ACTIVITIES

Pursuant to 40 CFR § 257.90(e), the following describes monitoring-related activities performed from July 2022 through June 2023 (the reporting period) and discusses any change in status of the monitoring program. All groundwater sampling was performed in accordance with 40 CFR § 257.93. Samples were collected in August 2022 and January 2023 from each well in the certified monitoring system shown on Figure 2. Pursuant to 40 CFR § 257.90(e)(3), a summary and description of groundwater sampling events completed at the Site during the semiannual monitoring period is shown in Table 2, Groundwater Sampling Event Summary.

2.1 Monitoring Well Installation and Maintenance

The Georgia EPD-approved locations of detection monitoring wells and piezometers are depicted on Figure 2. Other monitoring well-related activities were limited to the following: visual inspection of well conditions prior to sampling, recording the site conditions, and performing exterior maintenance to perform sampling under safe and clean conditions. Well inspection checklists completed during semiannual sampling are included in Appendix B, Laboratory Analytical and Field Sampling Reports. Monitoring wells are inspected semiannually to determine if any repairs or corrective actions are necessary to meet the requirements of the Georgia Water Well Standards Act (O.C.G.A. § 12-5-134(5)(d)(vii)). In August 2022 and January 2023, monitoring wells were inspected. No corrective actions were deemed necessary in August 2022 and January 2023, as documented in Appendix B.

As discussed in report Section 1.3, a request for minor modification to the permit was submitted to update the GWMP to remove groundwater monitoring wells from the network (GWA-1A, GWC-1, GWC-5, and GWC-6). Georgia EPD approved the minor modification in a letter dated December 19, 2022. The wells (GWA-1A, GWC-1, GWC-5, and GWC-6) were abandoned February 7, 2023, and an abandonment report is provided as Appendix A.

2.2 Detection Monitoring Program

Detection monitoring is performed on a semiannual basis in accordance with the approved Georgia EPD Solid Waste Permit and the Site's D&O Plan. Semiannual sampling events were conducted in August 2022 and January 2023.

Groundwater samples from wells in the detection monitoring system were collected and analyzed for:

- Appendix III constituents according to 40 CFR § 257.94(a); and
- A state-modified Appendix I list of detection parameters according to Georgia EPD Rules for Solid Waste Management 391-3-4-.14. The state-modified analyte list includes barium, beryllium, chromium, cobalt, copper, lead, vanadium, and zinc.

A copy of the analytical data packages for each of the semiannual detection monitoring events is included in Appendix B.

2.3 Additional Sampling

As stated in Section 1.3, a minor modification was approved that incorporated groundwater monitoring wells GWA-1B, GWC-1A, GWC-5A, and GWC-6A into the monitoring network. To facilitate future statistical analysis for these wells, additional background events were completed in March 2023 and May 2023. Groundwater samples were collected and analyzed for the same analytes listed in Section 2.2. The analytical data packages of each of these events is included in Appendix B. The N=8 background sampling for these wells is planned for late July/early August 2023.

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 were recorded from piezometers and wells at the Site. Groundwater elevations recorded during the monitoring events are summarized in Tables 3A and 3B, Summary of Groundwater Elevations – August 2022 and January 2023, respectively. Groundwater elevation data were used to develop Figures 3A and 3B, Potentiometric Contour Map – August 2022 and January 2023, respectively. Wells with the elevation most consistent with overall Site groundwater flow pattern were selected for contouring. The groundwater flow has consistently had a northeastern flow direction. The groundwater flow velocity at the Site was calculated using a derivation of Darcy's Law. Specifically:

Equation

$$v = \frac{K (dh/dl)}{P_e} \quad \text{where:} \quad \begin{array}{l} v = \text{groundwater velocity} \\ K = \text{hydraulic conductivity} \\ dh/dl = \text{hydraulic gradient} \\ P_e = \text{effective porosity} \end{array}$$

Groundwater flow velocities were calculated for the Site based on hydraulic gradients, average permeability based on previous slug test data, and an estimated effective porosity of 0.20. The

groundwater flow velocities have been calculated and are tabulated in Tables 4A and 4B, Horizontal Groundwater Flow Velocity Calculations – August 2022 and January 2023, respectively. The calculated flow velocity was approximately 0.039 feet per day during the August 2022 event and 0.042 feet per day during the January 2023 event.

These calculated groundwater velocities across the Site are generally consistent with historical calculations and with expected velocities in the Site-specific geology, therefore confirming the groundwater monitoring network is properly located to monitor the uppermost aquifer.

3.2 Groundwater Sampling

Groundwater samples were collected using low-flow sampling procedures in accordance with 40 CFR § 257.93(a). Purging and sampling was performed using a peristaltic pump. The pump intakes were located at the midpoint of the well screens (or as appropriate determined by the water level). All non-disposable equipment was decontaminated before use and between well locations using as a guide the procedures described in the latest version of the Region 4 US EPA Laboratory Services and Applied Science Division (LSASD) Operating Procedure for Field Equipment Cleaning and Decontamination.

Monitoring wells were purged and sampled using low-flow sampling procedures. A SmarTroll or AquaTroll (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
- $\pm 5\%$ for specific conductance
- $\pm 10\%$ or 0.2 milligrams per liter - mg/L (whichever is greater) for DO where DO > 0.5 mg/L; no criterion applies if DO < 0.5 mg/L
- Turbidity measurements less than 5 nephelometric turbidity units (NTU)

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 Eurofins Environment Testing America (Eurofins) of Pittsburgh, Pennsylvania and/or Savannah, Georgia laboratory branches following chain-of-custody protocol. Stabilization logs for each well and field calibration logs for each monitoring event are included in Appendix B.

3.3 Laboratory Analyses

Groundwater samples were collected during the monitoring events completed in August 2022 and January 2023. Analytical methods used for groundwater monitoring parameters are provided in laboratory reports in Appendix B. Samples were analyzed for Appendix III parameters and Appendix I parameters required by the current permit. Analytical data collected in the monitoring events are summarized in Tables 5A and 5B, Summary of Groundwater Analytical Data – August 2022 and January 2023, respectively. Additional geochemical analytical data collected during the January 2023 monitoring event are summarized in Table 5C, Summary of Groundwater Anion and Cation Data – January 2023.

Laboratory analyses were performed by Eurofins. Eurofins is accredited by the National Environmental Laboratory Accreditation Program (NELAP) and maintains a NELAP certification for all parameters analyzed for this project. In addition, Eurofins is certified to perform analysis

by the State of Georgia. Laboratory reports and chain-of-custody records for the monitoring events are presented in Appendix B.

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 set of QA/QC samples per every 10 samples. A set of QA/QC samples includes equipment blanks, field blanks, and duplicate samples. QA/QC sample data were evaluated during data validation and are included in Appendix B.

Groundwater quality data in this report were validated in accordance with US EPA guidance (US EPA, 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. The data are considered usable for meeting project objectives and the results are considered valid. A summary of the data validation is included in Appendix B.

Values followed by a "J" flag in Tables 5A, 5B, and 5C indicate that the value is an estimated analyte concentration detected between the method detection limit (MDL) and the laboratory reporting limit (RL). The estimated value is positively identified but is below the lowest level that can be reliably achieved within specified limits of precision and accuracy under routine laboratory operating conditions.

4.0 STATISTICAL ANALYSIS

Statistical analysis of August 2022 and January 2023 groundwater monitoring data was completed by Groundwater Stats Consulting, LLC (GSC) following the appropriate certified statistical methodology for the Site. A summary of the statistical methodology used at the Site for routine groundwater monitoring is provided in Table 6, Statistical Method Summary. Statistical analysis methods and results are provided in Appendix C, Statistical Analysis Reports. A summary of methods and results are provided in the following sections.

4.1 Methods

The statistical method used at the Site was developed by GSC, using methodology presented in *Statistical Analysis of Groundwater Data at RCRA Facilities, Unified Guidance*, March 2009, US EPA 530/ R-09-007 (US EPA, 2009). To develop the statistical methods, analytical data collected during the background period were evaluated and used to develop statistical limits for each Appendix III parameter and Appendix I parameter required by the existing Georgia EPD permit. 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 US EPA regulations.

Statistically significant increasing trends identified in upgradient wells are not considered statistically significant increases (SSIs). Typically, when changes in concentrations are present upgradient of the facility, it is an indication of naturally changing groundwater quality.

A permit minor modification was submitted to Georgia EPD on January 13, 2022, to allow for only interwell methods to be used for evaluation of state Appendix I parameters and Appendix III parameters. The selected statistical method for Plant McIntosh Inactive Landfill No. 3 was developed and updated in accordance with 40 CFR § 257.93(f) and Georgia EPD Rule

391-3-4-.10(6) using methodology presented in US EPA Unified Guidance (2009), US EPA 530/R-09-007 and as requested by Georgia EPD. On March 18, 2022, Georgia EPD approved this request for Minor Modification.

Therefore, statistical tests used to evaluate the August 2022 and January 2023 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-1B, GWA-2B, GWA-3A, GWA-4, GWA-5, and GWA-7A to establish a background limit for an individual constituent. The most recent sample from each downgradient well is compared to the background limit to determine whether there are SSIs. An "initial exceedance" occurs when an Appendix I or III constituent reported in a downgradient groundwater compliance monitoring well exceeds the constituent'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.

A summary of the statistical methodology used at the Site for the August 2022 and January 2023 routine groundwater monitoring data is provided in Table 6.

4.2 Statistical Analyses Results

Based on review of the Appendix I and III statistical analyses presented in Appendix C, statistical exceedances identified during the reporting period have been addressed previously by alternate source demonstrations (ASDs) as outlined in Section 5.0. Analytical data from the August 2022 and January 2023 monitoring events were statistically analyzed in accordance with the methods described in Section 4.1 and Table 6. The statistical analysis and comparisons to PLs are included in Appendix C.

A minimum of eight samples have not been collected from downgradient wells GWC-1A, GWC-5A, and GWC-6A. Therefore, data from these wells are included on time series and box plots presented in Appendix C and will be statistically analyzed when a minimum of eight samples have been collected.

4.2.1 Summary of Results for State Appendix I Parameters

Statistical analysis of the August 2022 Appendix I parameter data identified a PL exceedance of barium at GWC-5. This exceedance was previously addressed by an ASD completed in August 2017 (ERM, 2017) that was updated in 2022 (ACC, 2022) in accordance with the Georgia EPD Rules for Solid Waste Management Chapter 391-3-4-.14(23)(c). The 2022 ASD concluded that barium and cobalt SSIs are due to a natural variation in groundwater quality. This ASD was approved by Georgia EPD in a letter dated December 16, 2022.

Statistical analysis of the January 2023 Appendix I parameter data identified no PL exceedances.

4.2.2 Summary of Results for Appendix III Parameters

Statistical analysis of the August 2022 and January 2023 Appendix III parameter data identified no PL exceedances.

5.0 ALTERNATE SOURCE DEMONSTRATIONS

ASDs were previously submitted to Georgia EPD under separate report covers to address SSIs of Appendix I and Appendix III constituents. Based on Georgia EPD guidance, ASDs no longer require concurrence if an SSI has not been detected for two consecutive events, which indicates natural variability. The SSI confirmed during this reporting period is addressed by the ASDs listed below. A copy of the 2022 ASD is provided in Appendix D, Alternate Source Demonstration. As shown in the table below the 2017 ASD was resubmitted in 2022 and approved by Georgia EPD in a letter dated December 16, 2022.

Reference	SSI(s)	Well(s)	Status
ERM, 2017. Alternate Source Demonstration – Plant McIntosh Ash Disposal Site No. 3, August 2017	Barium	GWC-5	EPD concurrence
ACC 2022. Update to Barium and Cobalt Alternate Source Demonstrations	Barium, Cobalt	GWC-5	EPD approval 12/16/2022

6.0 MONITORING PROGRAM STATUS

Based on current data, the only SSI identified for barium is addressed by an ASD; therefore, the Site will remain in detection monitoring.

7.0 CONCLUSIONS AND FUTURE ACTIONS

This *2023 Annual Groundwater Monitoring and Corrective Action Report* for Georgia Power’s Plant McIntosh Inactive Landfill No. 3 was prepared to fulfill the requirements of US EPA’s CCR Rule and Georgia EPD Rules for Solid Waste Management Chapter 391-3-4-.10 and 391-3-4-.14.

Statistical evaluation of Site groundwater monitoring data during the reporting period did not identify SSIs of Appendix III groundwater monitoring parameters or Appendix I parameters that have not been previously addressed by ASDs. The Site remains in detection monitoring.

The N=8 background sampling event for wells GWA-1B, GWC-1A, GWC-5A, and GWC-6A and the next semiannual detection monitoring event are planned for late July/early August 2023.

8.0 REFERENCES

- ACC, 2020a, *2020 Annual Groundwater Monitoring and Corrective Action Report – Plant McIntosh Inactive Landfill No. 3*.
- ACC, 2020b, *September 2020 Well Installation Report Addendum, Plant McIntosh – Inactive Landfill No. 3, October 29, 2020*.
- ACC, 2020c, *Alternate Source Demonstration – Plant McIntosh Inactive Landfill No. 3*. September 2020.
- ACC, 2022, *Update to Barium and Cobalt Alternate Source Demonstrations - Plant McIntosh Inactive Landfill No. 3*. September 30, 2022.
- ERM, 2017. *Alternate Source Demonstration – Plant McIntosh Ash Disposal Site No. 3*. August 2017.
- GEI, 2020. *Alternate Source Demonstration – Plant McIntosh Inactive Landfill No. 3*. February 2020.
- GEI, 2022. *Groundwater Monitoring Plan, Plant McIntosh Inactive Coal Combustion Inactive CCR Landfill No. 3, Effingham County, Georgia*, November 2022.
- Georgia Power, 2022. *Request for Minor Modification to Groundwater Monitoring Network*, October 6, 2022, GEOS Submittal Id.: 701522.
- Georgia Power, 2023. *Groundwater Document Submittal, Well Abandonment Report*, February 24, 2023, GEOS Submittal Id.: 739739.
- MacStat Consulting, Ltd., 2017. *Statistical Analysis Plan – Plant McIntosh Landfill No. 3*.
- Sanitas, 2007 *Groundwater Statistical Software*, Sanitas Technologies, Shawnee, KS.
- Southern Company Services - Earth Science and Environmental Engineering (SCS ES&EE), 2002. *Savannah Electric Plant McIntosh Proposed Ash Monofill Site Acceptability Report*. July 2002.
- US EPA, 1989. *Waste Management Division Office of Solid Waste, EPA 530/SW89-031 Interim Final RCRA Investigation (RFI) Guidance, Volume II of IV*.
- US EPA, 2009, *Unified Guidance, Statistical Analysis of Groundwater Monitoring Data at RCRA Facilities*. Office of Solid Waste Management Division, US EPA, Washington, D.C.
- US EPA, 2011, *Region IV Data Validation Standard Operating Procedures*. Science and Ecosystem Support Division. Athens, Georgia.
- US EPA, 2017. *National Functional Guidelines for Inorganic Superfund Methods Data Review*, Office of Superfund Remediation and Technology Innovation. OLEM 9355.0-135 [US EPA-540-R-2017-001]. Washington, DC.
- US EPA, 2020, *Field Equipment Cleaning and Decontamination – Operating Procedure: LSASDPROC-205-R4*, Athens, Georgia, 15 pages.
- US EPA, 2023, *Groundwater Sampling – Operating Procedure: LSASDPROC-301-R6*, Athens, Georgia, 36 pages.

TABLES

**Table 1A
Detection Monitoring Well Summary
Plant McIntosh Inactive Landfill No. 3
Effingham County, Georgia**

Well	Installation Date (mm/dd/yyyy)	Northing	Easting	Top of Casing Elevation (NAVD88)	Bottom Depth (ft BTOC)	Bottom Elevation (NAVD88)	Depth to Top of Screen (ft BTOC)	Top of Screen Elevation (NAVD88)	Purpose
GWA-1B	12/04/2020	852028.09	954564.84	67.36	58.53	8.83	47.96	19.40	Upgradient
GWA-2B	08/29/2018	851831.06	954866.86	66.20	51.78	14.42	41.48	24.72	Upgradient
GWA-3A	05/16/1998	851893.61	955179.89	62.77	33.88	28.89	22.74	40.03	Upgradient
GWA-4	05/07/1998	851980.91	955475.74	62.01	29.16	32.85	23.71	38.30	Upgradient
GWA-5	05/07/1998	852110.59	955844.69	60.43	33.00	27.43	22.58	37.85	Upgradient
GWA-7A	08/29/2018	852254.28	954654.74	67.92	46.94	20.98	36.64	31.28	Upgradient
GWC-1A	12/08/2020	852453.58	955300.47	66.76	47.37	19.39	36.83	29.93	Downgradient
GWC-2	01/23/1996	852343.90	955958.27	64.19	36.79	27.40	26.99	37.20	Downgradient
GWC-4A	05/16/1998	852544.35	955702.05	66.60	36.96	29.64	24.73	41.87	Downgradient
GWC-5A	12/09/2020	852689.80	955477.18	67.84	42.60	25.24	32.45	35.39	Downgradient
GWC-6A	12/07/2020	852462.38	955046.58	68.37	42.43	25.94	32.08	36.29	Downgradient

Notes:

1. ft BTOC indicates feet below top of casing.
2. Northings and eastings are feet relative to North American Datum 1983 (NAD83), State Plane Georgia East Zone.
3. NAVD88 indicates feet relative to North American Vertical Datum of 1988.
4. Georgia EPD approved minor modification dated October 6, 2022 for the abandonment of GWA-1A, GWC-1, GWC-5, GWC-6 and replacing them with GWA-1B, GWC-1A, GWC-5A, GWC-6A, respectively.

**Table 1B
Piezometer Summary
Plant McIntosh Inactive Landfill No. 3
Effingham County, Georgia**

Well	Installation Date (mm/dd/yyyy)	Northing	Easting	Top of Casing Elevation (NAVD88)	Bottom Depth (ft BTOC)	Bottom Elevation (NAVD88)	Depth to Top of Screen (ft BTOC)	Top of Screen Elevation (NAVD88)	Purpose
PZ-1	08/29/2018	852400.01	954904.93	67.41	52.71	14.70	42.41	25.00	Piezometer
PZ-2	08/28/2018	852549.77	955306.02	67.26	42.27	24.99	31.97	35.29	Piezometer
PZ-3	08/30/2018	852032.57	955677.60	61.28	41.59	19.69	31.29	29.99	Piezometer
PZ-4	01/21/2022	851879.27	954615.01	66.41	53.19	13.22	42.84	23.57	Piezometer
PZ-5	01/20/2022	852171.15	954557.82	67.52	53.13	14.39	42.78	24.74	Piezometer

Notes:

1. ft BTOC indicates feet below top of casing.
2. Northings and eastings are feet relative to North American Datum 1983 (NAD83), State Plane Georgia East Zone.
3. NAVD88 indicates feet relative to North American Vertical Datum of 1988.
4. The Georgia EPD minor modification dated October 6, 2022 approved the addition of PZ-4 and PZ-5.

Table 2
Groundwater Sampling Event Summary
Plant McIntosh Inactive Landfill No. 3
Effingham County, Georgia

Well	Hydraulic Location	August 30 - September 1, 2022	January 31 - February 2, 2023	March 28-29, 2023	May 30-31, 2023
Purpose of Sampling Event		Semiannual Detection	Semiannual Detection	Background Number 6	Background Number 7
GWA-1A	Upgradient	X			
GWA-1B	Upgradient	X	X	X	X
GWA-2B	Upgradient	X	X		
GWA-3A	Upgradient	X	X		
GWA-4	Upgradient	X	X		
GWA-5	Upgradient	X	X		
GWA-7A	Upgradient	X	X		
GWC-1	Downgradient	X			
GWC-1A	Downgradient	X	X	X	X
GWC-2	Downgradient	X	X		
GWC-4A	Downgradient	X	X		
GWC-5	Downgradient	X			
GWC-5A	Downgradient	X	X	X	X
GWC-6	Downgradient	X			
GWC-6A	Downgradient	X	X	X	X

Notes:

1. X indicates sample was collected.
2. Semiannual Detection Event includes Appendix III and Appendix I Parameters.
3. Background Event includes Appendix III and Appendix I Parameters.
4. Wells GWA-1A, GWC-1, GWC-5, GWC-6 were not sampled during January 2023 event, because they were approved for abandonment in October 2022.

Table 3A
Summary of Groundwater Elevations
August 2022
Plant McIntosh Inactive Landfill No. 3
Effingham County, Georgia

Well ID	Top-of-Casing Elevation (NAVD88)	Groundwater Elevation (NAVD88)
GWA-1A	66.76	51.17
GWA-1B	67.36	44.94
GWA-2B	66.20	46.09
GWA-3A	62.77	45.98
GWA-4	62.01	45.29
GWA-5	60.43	44.57
GWA-7A	67.92	44.23
GWC-1	66.08	44.39
GWC-1A	66.76	44.35
GWC-2	64.19	43.63
GWC-4A	66.60	43.96
GWC-5	68.08	45.37
GWC-5A	67.84	43.75
GWC-6	68.51	45.36
GWC-6A	68.37	44.11
PZ-1	67.41	44.11
PZ-2	67.26	43.94
PZ-3	61.28	44.93
PZ-4	66.41	45.93
PZ-5	67.52	44.52

Notes:

1. NAVD88 indicates feet relative to North American Vertical Datum of 1988.
2. Groundwater elevations measured August 30, 2022.

Table 3B
Summary of Groundwater Elevations
January 2023
Plant McIntosh Inactive Landfill No. 3
Effingham County, Georgia

Well ID	Top-of-Casing Elevation (NAVD88)	Groundwater Elevation (NAVD88)
GWA-1B	67.36	44.44
GWA-2B	66.20	45.67
GWA-3A	62.77	45.67
GWA-4	62.01	44.95
GWA-5	60.43	44.32
GWA-7A	67.92	43.71
GWC-1A	66.76	43.79
GWC-2	64.19	43.31
GWC-4A	66.60	43.54
GWC-5A	67.84	43.16
GWC-6A	68.37	43.57
PZ-1	67.41	43.58
PZ-2	67.26	43.42
PZ-3	61.28	44.61
PZ-4	66.41	45.48
PZ-5	67.52	44.01

Notes:

1. NAVD88 indicates feet relative to North American Vertical Datum of 1988.
2. Groundwater elevations measured January 31, 2023.

Table 4A
Horizontal Groundwater Flow Velocity Calculations
August 2022
Plant McIntosh Inactive Landfill No. 3
Effingham County, Georgia

Equation

$$v = \frac{K (dh/dl)}{P_e} \quad \text{where: } v = \text{groundwater velocity}$$

K = hydraulic conductivity
dh/dl = hydraulic gradient
P_e = effective porosity

Values Used in Calculation

Value	Source
K = 7.9E-04 cm/sec 2.24 ft/day	See note 1.
dh/dl ₁ = 0.0037 unitless dh/dl ₂ = 0.0032 unitless dh/dl _{avg} = 0.0034 unitless	Hydraulic gradient from GWA-5 to GWC-2 GWA-3A to GWC-6A Average of dh/dl _{1,2}
P _e = 0.20 unitless	See note 2.

Calculated Flow Velocity

$$v = \frac{(2.24)(0.003)}{0.20}$$

$$v = 0.039 \text{ ft/day, or } 14 \text{ ft/year}$$

Notes

- (1) Slug tests performed by Southern Company Services, Inc. (2002)
- (2) Default value for silty sands from Interim Final RCRA Investigation (EPA, 1989)

Table 4B
Horizontal Groundwater Flow Velocity Calculations
January 2023
Plant McIntosh Inactive Landfill No. 3
Effingham County, Georgia

Equation

$$v = \frac{K (dh/dl)}{P_e} \quad \text{where: } v = \text{groundwater velocity}$$

K = hydraulic conductivity
dh/dl = hydraulic gradient
P_e = effective porosity

Values Used in Calculation

Value	Source
K = 7.9E-04 cm/sec 2.24 ft/day	See note 1.
dh/dl ₁ = 0.0040 unitless dh/dl ₂ = 0.0036 unitless dh/dl _{avg} = 0.0038 unitless	Hydraulic gradient from GWA-5 to GWC-2 GWA-3A to GWC-6A Average of dh/dl _{1,2}
P _e = 0.20 unitless	See note 2.

Calculated Flow Velocity

$$v = \frac{(2.24)(0.004)}{0.20}$$

$$v = 0.042 \text{ ft/day, or } 15 \text{ ft/year}$$

Notes

- (1) Slug tests performed by Southern Company Services, Inc. (2002)
- (2) Default value for silty sands from Interim Final RCRA Investigation (EPA, 1989)

Table 5A
Summary of Groundwater Analytical Data
August 2022
Plant McIntosh Inactive Landfill No. 3
Effingham County, Georgia

Substance		Well ID							
		GWA-1A	GWA-1B	GWA-2B	GWA-3A	GWA-4	GWA-5	GWA-7A	GWC-1
		8/30/2022	8/30/2022	8/30/2022	8/30/2022	8/30/2022	8/30/2022	8/30/2022	8/31/2022
APPENDIX III	Boron	<0.060	0.12	0.98	0.10	<0.060	<0.060	1.2	<0.060
	Calcium	1.8	5.2	15	3.9	1.2	3.4	14	0.31 J
	Chloride	8.5	7.7	5.9	26	4.7	15	7.5	12
	Fluoride	<0.040	0.51	<0.040	<0.040	0.047 J	0.11	<0.040	<0.040
	pH	5.01	5.86	4.90	4.71	4.72	4.51	5.00	4.69
	Sulfate	<0.40	1.6	74	<0.40	3.5	13	73	<0.40
	TDS	55	79	150	87	40	64	160	37
Required by Permit	Barium	0.023	0.022	0.030	0.11	0.046	0.13	0.047	0.030
	Beryllium	0.00035 J	<0.00020	0.0019 J	0.00083 J	0.00028 J	<0.00020	0.00070 J	<0.00020
	Chromium	0.0047	<0.0015	0.0028	0.0084	<0.0015	<0.0015	<0.0015	<0.0015
	Cobalt	0.00031 J	0.00029 J	0.0040	0.0023 J	0.00097 J	0.0016 J	0.0024 J	0.00036 J
	Copper	<0.0011	<0.0011	0.0013 J	0.0029	0.0012 J	0.0011 J	0.0028	<0.0011
	Lead	<0.00017	<0.00017	<0.00017	<0.00017	<0.00017	0.00064 J	<0.00017	<0.00017
	Vanadium	0.0019	0.0019	0.0016	<0.00078	<0.00078	0.0028	0.0016	0.0011
Zinc	<0.0029	0.0030 J	0.014	0.012	0.010	0.013	0.0089	<0.0029	

Notes:

1. Results for substances are reported in milligrams per liter (mg/L). pH results are reported in Standard Units.
2. < indicates the substance was not detected above the relevant laboratory method detection limit (MDL).
3. 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 (value J) is qualified by the laboratory as an estimated number.
4. TDS indicates total dissolved solids.
5. Appendix III = indicator parameters evaluated during Detection Monitoring.
6. Parameters required by permit are Appendix I parameters included to meet GA EPD Rule 391-3-4-.14 requirements.

Table 5A
Summary of Groundwater Analytical Data
August 2022
Plant McIntosh Inactive Landfill No. 3
Effingham County, Georgia

Substance		Well ID						
		GWC-1A	GWC-2	GWC-4A	GWC-5	GWC-5A	GWC-6	GWC-6A
		8/30/2022	8/30/2022	8/30/2022	9/1/2022	8/31/2022	8/31/2022	8/31/2022
APPENDIX III	Boron	0.099	0.085	<0.060	<0.060	<0.060	<0.060	<0.060
	Calcium	2.3	1.4	0.39 J	5.2	0.98	1.5	3.2
	Chloride	14	4.8	4.8	7.0	4.5	7.3	9.6
	Fluoride	0.071 J	<0.040	<0.040	<0.040	<0.040	<0.040	<0.040
	pH	4.43	4.96	4.71	4.29	4.97	4.85	5.07
	Sulfate	<0.40	1.1	<0.40	<0.40	<0.40	0.41 J	3.5
	TDS	65	38	21	140	27	61	73
Required by Permit	Barium	0.24	0.058	0.035	0.36	0.057	0.043	0.081
	Beryllium	0.00042 J	0.00038 J	<0.00020	0.0018 J	<0.00020	0.00049 J	0.00029 J
	Chromium	<0.0015	0.0050	<0.0015	0.014	0.0021	<0.0015	<0.0015
	Cobalt	0.0044	0.0012 J	0.00048 J	0.012	0.0018 J	0.00058 J	0.0012 J
	Copper	0.0019 J	<0.0011	<0.0011	0.0012 J	<0.0011	<0.0011	<0.0011
	Lead	<0.00017	<0.00017	<0.00017	0.00031 J	0.00027 J	<0.00017	<0.00017
	Vanadium	0.00087 J	<0.00078	<0.00078	<0.00078	<0.00078	0.0013	<0.00078
Zinc	0.020	0.012	0.0046 J	0.035	0.014	0.0073	0.0049 J	

Notes:

1. Results for substances are reported in milligrams per liter (mg/L). pH results are reported in Standard Units.
2. < indicates the substance was not detected above the relevant laboratory method detection limit (MDL).
3. 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 (value J) is qualified by the laboratory as an estimated number.
4. TDS indicates total dissolved solids.
5. Appendix III = indicator parameters evaluated during Detection Monitoring.
6. Parameters required by permit are Appendix I parameters included to meet GA EPD Rule 391-3-4-.14 requirements.

Table 5B
Summary of Groundwater Analytical Data
January 2023
Plant McIntosh Inactive Landfill No. 3
Effingham County, Georgia

Substance		Well ID							
		GWA-1B	GWA-1B	GWA-1B	GWA-2B	GWA-3A	GWA-4	GWA-5	GWA-7A
		1/31/2023	3/28/2023	5/30/2023	1/31/2023	2/1/2023	2/1/2023	2/2/2023	1/31/2023
APPENDIX III	Boron	0.044 J	0.072 J	0.068 J	0.99	0.087	0.023 J	0.039 J	1.3
	Calcium	6.8	3.0	3.3	16	4.6	1.4	3.7	15
	Chloride	8.0	10	9.1	6.7	30	4.5	15	7.9
	Fluoride	0.13	0.040 J	0.067 J	<0.040	<0.040	0.043 J	0.12	<0.040
	pH	6.15	5.73	5.89	5.07	4.52	4.77	4.59	5.00
	Sulfate	1.0	2.0	2.0	71	<0.40	3.1	15	74
	TDS	76	48	51	140	85	34	65	150
Required by Permit	Barium	0.024	0.018	0.019	0.036	0.13	0.050	0.13	0.043
	Beryllium	<0.00020	<0.00020	<0.00020	0.0018 J	0.00078 J	0.00024 J	0.00050 J	0.00056 J
	Chromium	<0.0012	<0.0012	<0.0012	0.0022	0.0016 J	0.0016 J	0.0023	<0.0012
	Cobalt	0.00028 J	0.00032 J	0.00028 J	0.0041	0.0027	0.0012 J	0.0017 J	0.0023 J
	Copper	<0.0011	<0.0011	<0.0011	<0.0011	<0.0011	<0.0011	0.0018 J	<0.0011
	Lead	<0.00021	<0.00021	0.00043 J	<0.00021	0.00027 J	<0.00021	0.0013	<0.00021
	Vanadium	<0.00063	<0.00063	<0.00063	<0.00063	<0.00063	<0.00063	0.0041	<0.00063
Zinc	<0.0028	0.0096	0.0076	0.012	0.0071	0.0089	0.0095	0.0082	

Notes:

1. Results for substances are reported in milligrams per liter (mg/L). pH results are reported in Standard Units.
2. < indicates the substance was not detected above the relevant laboratory method detection limit (MDL).
3. 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 (value J) is qualified by the laboratory as an estimated number.
4. TDS indicates total dissolved solids.
5. Appendix III = indicator parameters evaluated during Detection Monitoring.
6. Parameters required by permit are Appendix I parameters included to meet GA EPD Rule 391-3-4-.14 requirements.

Table 5B
Summary of Groundwater Analytical Data
January 2023
Plant McIntosh Inactive Landfill No. 3
Effingham County, Georgia

Substance		Well ID							
		GWC-1A	GWC-1A	GWC-1A	GWC-2	GWC-4A	GWC-5A	GWC-5A	GWC-5A
		1/31/2023	3/29/2023	5/31/2023	2/1/2023	2/1/2023	1/31/2023	3/29/2023	5/31/2023
APPENDIX III	Boron	0.094	0.063 J	0.054 J	0.091	<0.022	0.033 J	0.024 J	<0.022
	Calcium	2.6	2.6	2.8	1.3	0.34 J	1.0	0.83	1.1
	Chloride	14	14	13	4.8	4.3	4.5	5.0	4.8
	Fluoride	0.074 J	0.066 J	0.11	<0.040	<0.040	<0.040	<0.040	0.056 J
	pH	4.43	4.38	4.31	4.83	4.60	4.85	4.69	4.62
	Sulfate	<0.40	<0.40	0.43 J	1.3	<0.40	<0.40	<0.40	0.71 J
	TDS	57	63	61	36	18	25	26	25
Required by Permit	Barium	0.27	0.27	0.29	0.063	0.034	0.070	0.071	0.076
	Beryllium	0.00043 J	0.00046 J	0.00039 J	0.00024 J	<0.00020	0.00023 J	0.00024 J	0.00024 J
	Chromium	<0.0012	0.0016 J	0.0012 J	0.0037	<0.0012	<0.0012	<0.0012	<0.0012
	Cobalt	0.0046	0.0051	0.0050	0.0013 J	0.00047 J	0.0021 J	0.0021 J	0.0021 J
	Copper	<0.0011	0.0011 J	0.0012 J	<0.0011	<0.0011	<0.0011	<0.0011	<0.0011
	Lead	<0.00021	<0.00021	0.00048 J	<0.00021	<0.00021	<0.00021	<0.00021	0.00061 J
	Vanadium	<0.00063	<0.00063	<0.00063	<0.00063	<0.00063	<0.00063	<0.00063	<0.00063
Zinc	0.018	0.020	0.020	0.0062	<0.0028	0.0088	0.010	0.0096	

Notes:

1. Results for substances are reported in milligrams per liter (mg/L). pH results are reported in Standard Units.
2. < indicates the substance was not detected above the relevant laboratory method detection limit (MDL).
3. 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 (value J) is qualified by the laboratory as an estimated number.
4. TDS indicates total dissolved solids.
5. Appendix III = indicator parameters evaluated during Detection Monitoring.
6. Parameters required by permit are Appendix I parameters included to meet GA EPD Rule 391-3-4-.14 requirements.

Table 5B
Summary of Groundwater Analytical Data
January 2023
Plant McIntosh Inactive Landfill No. 3
Effingham County, Georgia

Substance		Well ID		
		GWC-6A	GWC-6A	GWC-6A
		1/31/2023	3/29/2023	5/31/2023
APPENDIX III	Boron	0.047 J	0.046 J	0.036 J
	Calcium	3.1	3.0	3.8
	Chloride	9.7	11	9.4
	Fluoride	<0.040	<0.040	0.050 J
	pH	5.32	5.18	5.07
	Sulfate	3.3	4.0	3.3
	TDS	71	69	68
Required by Permit	Barium	0.083	0.082	0.096
	Beryllium	0.00031 J	0.00029 J	0.00032 J
	Chromium	<0.0012	0.0014 J	0.0021
	Cobalt	0.0011 J	0.0010 J	0.0011 J
	Copper	<0.0011	<0.0011	<0.0011
	Lead	<0.00021	<0.00021	0.00038 J
	Vanadium	<0.00063	<0.00063	<0.00063
Zinc	<0.0028	0.0056	0.0049 J	

Notes:

1. Results for substances are reported in milligrams per liter (mg/L). pH results are reported in Standard Units.
2. < indicates the substance was not detected above the relevant laboratory method detection limit (MDL).
3. 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 (value J) is qualified by the laboratory as an estimated number.
4. TDS indicates total dissolved solids.
5. Appendix III = indicator parameters evaluated during Detection Monitoring.
6. Parameters required by permit are Appendix I parameters included to meet GA EPD Rule 391-3-4-.14 requirements.

Table 5C
Summary of Groundwater Anion and Cation Data
January 2023
Plant McIntosh Inactive Landfill No. 3
Effingham County, Georgia

Substance		Well ID							
		GWA-1B	GWA-2B	GWA-3A	GWA-4	GWA-5	GWA-7A	GWC-1A	GWC-2
		1/31/2023	1/31/2023	2/1/2023	2/1/2023	2/2/2023	1/31/2023	1/31/2023	2/1/2023
Anions	Alkalinity	27	6.9	<5.0	<5.0	<5.0	5.9	<5.0	7.4
	Bicarbonate Alkalinity	27	6.9	<5.0	<5.0	<5.0	5.9	<5.0	7.4
	Carbonate Alkalinity	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
	Chloride	8.0	6.7	30	4.5	15	7.9	14	4.8
	Sulfate	1.0	71	<0.40	3.1	15	74	<0.40	1.3
Cations	Calcium	6.8	16	4.6	1.4	3.7	15	2.6	1.3
	Magnesium	2.2	4.0	2.1	1.0	2.6	4.3	3.4	0.92
	Potassium	1.2	3.0	3.6	1.4	2.1	2.9	2.1	1.8
	Sodium	6.1	16	11	4.5	7.9	19	6.5	4.8
Total Dissolved Solids		76	140	85	34	65	150	57	36

Notes:

1. Results for substances are reported in milligrams per liter (mg/L).
2. < indicates the substance was not detected above the relevant laboratory method detection limit (MDL).
3. 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 (value J) is qualified by the laboratory as an estimated number.

Table 5C
Summary of Groundwater Anion and Cation Data
January 2023
Plant McIntosh Inactive Landfill No. 3
Effingham County, Georgia

Substance		Well ID		
		GWC-4A	GWC-5A	GWC-6A
		2/1/2023	1/31/2023	1/31/2023
Anions	Alkalinity	<5.0	7.3	10
	Bicarbonate Alkalinity	<5.0	7.3	10
	Carbonate Alkalinity	<5.0	<5.0	<5.0
	Chloride	4.3	4.5	9.7
	Sulfate	<0.40	<0.40	3.3
Cations	Calcium	0.34 J	1.0	3.1
	Magnesium	0.90	1.1	1.5
	Potassium	0.86	1.2	1.7
	Sodium	2.6	2.3	7.3
Total Dissolved Solids		18	25	71

Notes:

1. Results for substances are reported in milligrams per liter (mg/L).
2. < indicates the substance was not detected above the relevant laboratory method detection limit (MDL).
3. 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 (value J) is qualified by the laboratory as an estimated number.

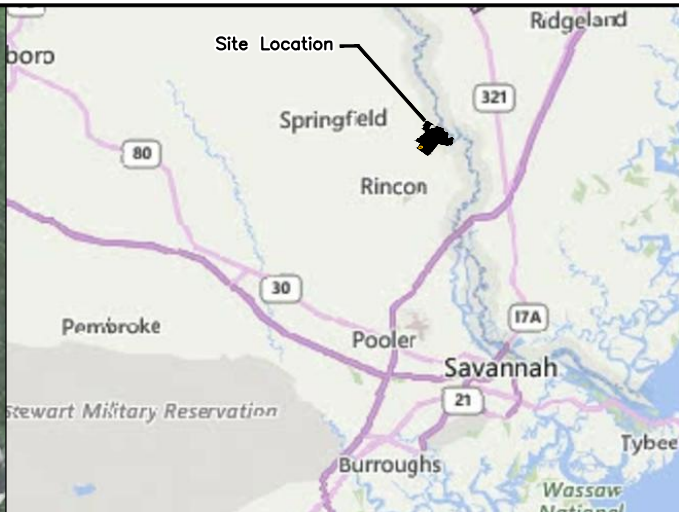
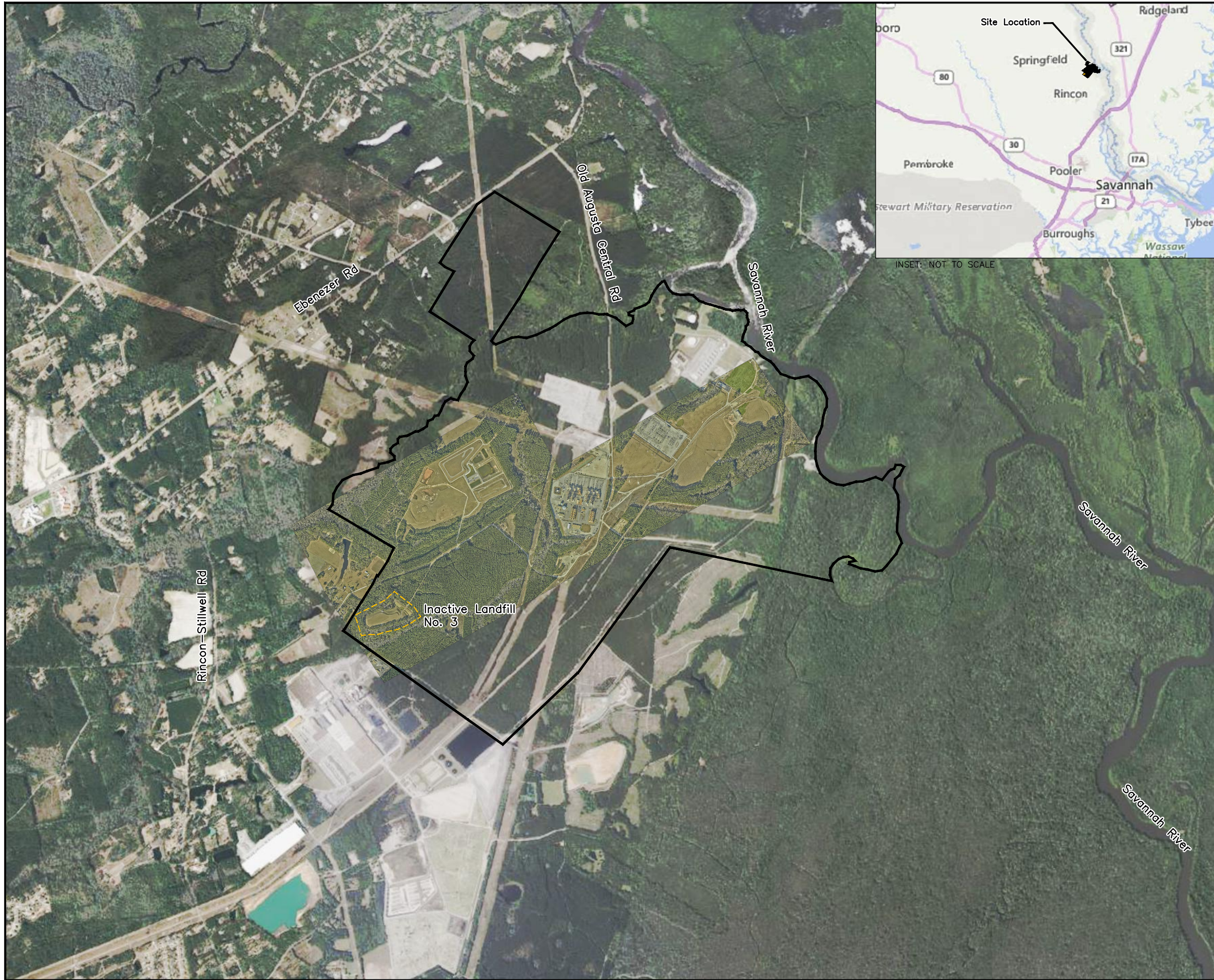
**Table 6
Statistical Method Summary
Plant McIntosh Inactive Landfill No. 3
Effingham County, Georgia**

Plant McIntosh Inactive Landfill No. 3 Statistical Method Summary		
Monitoring Well Network	Upgradient Wells	GWA-1B, GWA-2B, GWA-3A, GWA-4, GWA-5, GWA-7A
	Downgradient Wells	GWC-1A, GWC-2, GWC-4A, GWC-5A, GWC-6A
CCR Monitoring Parameters	Appendix III (Detection Monitoring)	Boron, Calcium, Chloride, Fluoride, pH, Sulfate, and TDS
	Appendix IV (Assessment Monitoring)	Antimony, Arsenic, Barium, Beryllium, Cadmium, Chromium, Cobalt, Combined Radium 226 + 228, Fluoride, Lead, Lithium, Mercury, Molybdenum, Selenium, and Thallium
EPD Permit Metals	Detection Monitoring	Barium, Beryllium, Chromium, Cobalt, Copper, Lead, Vanadium, and Zinc
Statistical Methodology	Data Screening Proposed Background	Evaluate outliers, trends, and seasonality when sufficient data are available
	Statistical Limits	Interwell statistical limits

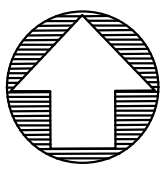

Note:

1. The selected statistical method for Plant McIntosh Inactive Landfill No. 3 was developed and updated to analyze the March 2021 groundwater data in accordance with Georgia EPD Rule 391-3-4-.10(6) using methodology presented in *Statistical Analysis of Groundwater Data at RCRA Facilities*, Unified Guidance, March 2009, EPA530/R-09-007 (Unified Guidance) and as requested by Georgia EPD.

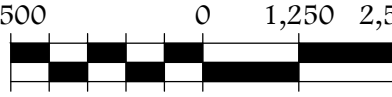
FIGURES



INSET: NOT TO SCALE






ATLANTIC COAST CONSULTING, INC.




SCALE (IN FEET)

LEGEND:

EXISTING	DESCRIPTION
	APPROXIMATE PROPERTY BOUNDARY
	INACTIVE LANDFILL No. 3

NOTES:
 1. AERIAL DATED JANUARY 2023 FROM SAM, LLC.
 ADDITIONAL PHOTOGRAPHY DATED 2022 FROM MICROSOFT CORPORATION, MAXAR, CNES, DISTRIBUTION AIRBUS DS.

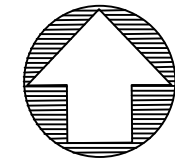
PROJECT


 GEORGIA POWER COMPANY
 PLANT McINTOSH
 INACTIVE LANDFILL No. 3

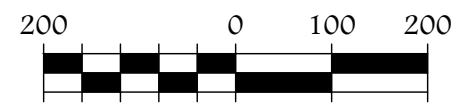
2023 ANNUAL GROUNDWATER MONITORING
 AND CORRECTIVE ACTION REPORT

SITE LOCATION MAP

PROJECT NO. IO54-117		July 2023
<u>DRAWN BY:</u>	MM	<u>FIGURE:</u> 1
<u>CHECKED BY:</u>	CA	



ATLANTIC COAST
CONSULTING, INC.



SCALE (IN FEET)

LEGEND:

EXISTING	DESCRIPTION
	EXISTING 100-FOOT BUFFER ZONE
	WASTE MANAGEMENT BOUNDARY
	GWC-1A DETECTION MONITORING WELL
	PZ-1 PIEZOMETER
	GWA-1A ABANDONED MONITORING WELL

NOTES:

1. AERIAL DATED JANUARY 2023 FROM SAM, LLC. ADDITIONAL PHOTOGRAPHY DATED 2022 FROM MICROSOFT CORPORATION, MAXAR, CNES, DISTRIBUTION AIRBUS DS.
2. MONITORING WELLS GWA-1A, GWC-1, GWC-5, AND GWC-6 WERE ABANDONED ON FEBRUARY 7, 2023 PER MINOR MODIFICATION APPROVED ON OCTOBER 5, 2022.

PROJECT



GEORGIA POWER COMPANY
PLANT McINTOSH
INACTIVE LANDFILL No. 3

2023 ANNUAL GROUNDWATER MONITORING
AND CORRECTIVE ACTION REPORT

WELL LOCATION MAP

PROJECT NO. I054-117

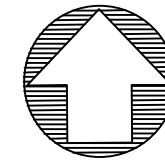
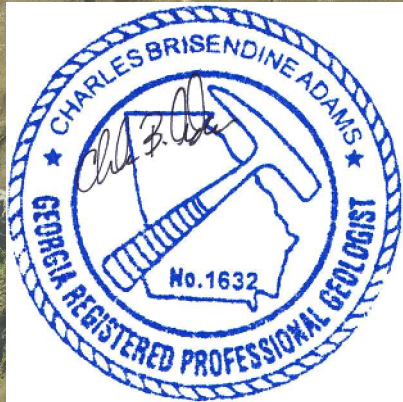
July 2023

DRAWN BY: MM

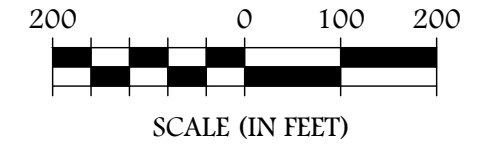
FIGURE:

CHECKED BY: CA

2



ATLANTIC COAST CONSULTING, INC.



LEGEND:

EXISTING	DESCRIPTION
	EXISTING 100-FOOT BUFFER ZONE
	WASTE MANAGEMENT BOUNDARY
	GWC-1A 46.79 DETECTION MONITORING WELL GROUNDWATER ELEVATION (FT NAVD88)
	PZ-1 46.35 PIEZOMETER GROUNDWATER ELEVATION (FT NAVD88)
	GWC-1 47 ABANDONED MONITORING WELL GROUNDWATER ELEVATION CONTOUR (FT NAVD88)
	GROUNDWATER FLOW DIRECTION

- NOTES:
1. DEPTHS TO WATER MEASURED AUGUST 30, 2022.
 2. FT NAVD88 = FEET RELATIVE TO NORTH AMERICAN VERTICAL DATUM OF 1988.
 3. MONITORING WELLS GWA-1A, GWC-1, GWC-5, AND GWC-6 WERE ABANDONED ON FEBRUARY 7, 2023 PER MINOR MODIFICATION DATED OCTOBER 5, 2022 AND NOT USED TO CONSTRUCT POTENTIOMETRIC CONTOURS. WELLS SELECTED FOR CONTOURING WERE MOST CONSISTENT WITH OVERALL SITE GROUNDWATER FLOW PATTERN.
 4. PIEZOMETERS PZ-4 AND PZ-5 WERE INSTALLED IN JANUARY 2022.
 5. AERIAL DATED JANUARY 2023 FROM SAM, LLC. ADDITIONAL PHOTOGRAPHY DATED 2022 FROM MICROSOFT CORPORATION, MAXAR, CNES, DISTRIBUTION AIRBUS DS.

PROJECT



GEORGIA POWER COMPANY
PLANT McINTOSH
INACTIVE LANDFILL No. 3

2023 ANNUAL GROUNDWATER MONITORING
AND CORRECTIVE ACTION REPORT

**POTENTIOMETRIC CONTOUR MAP
AUGUST 2022**

PROJECT NO. I054-117

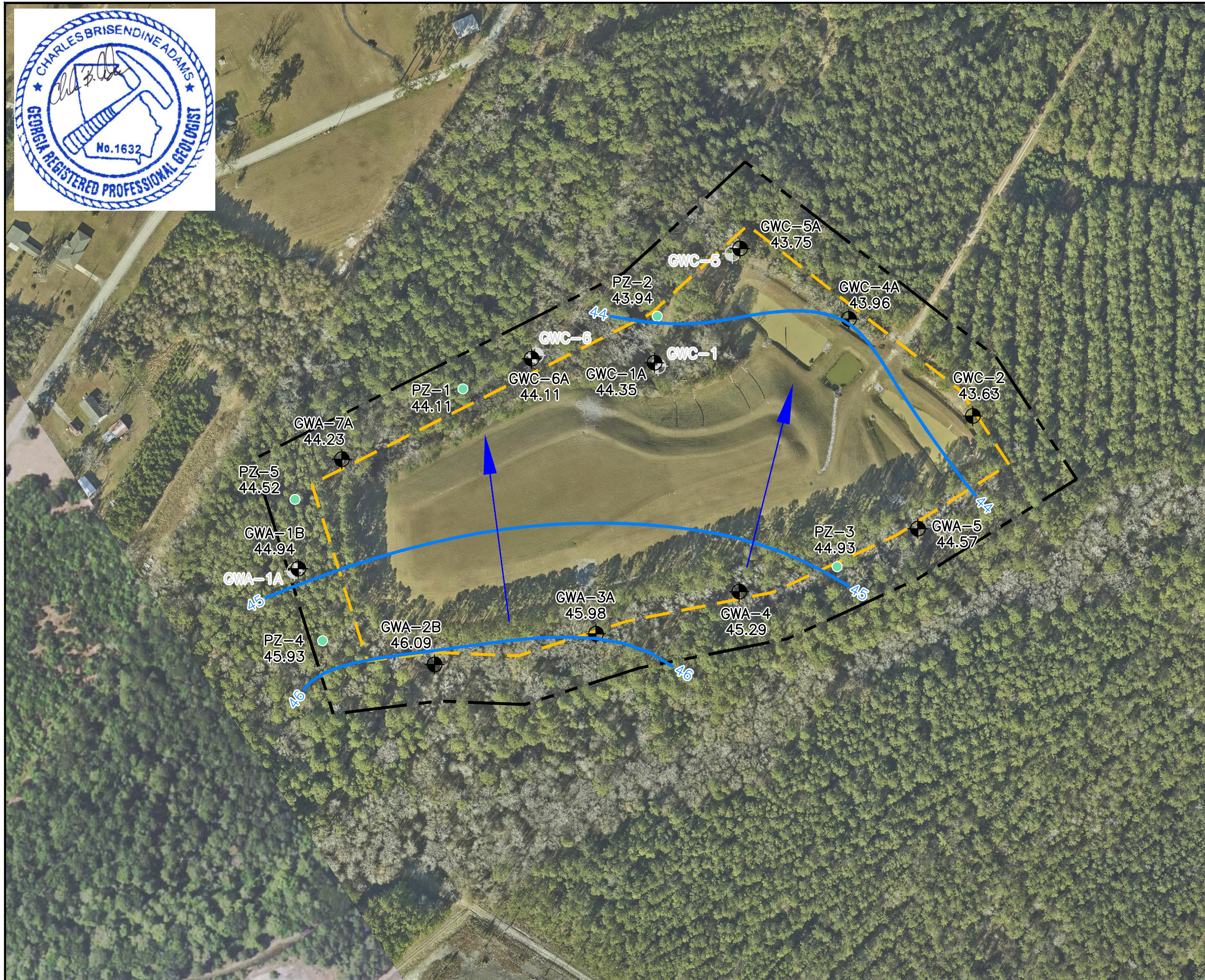
February 2023

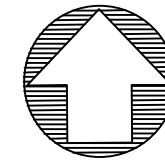
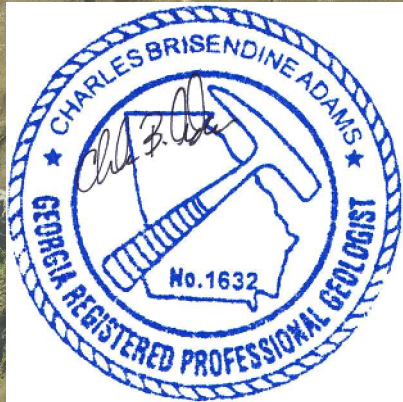
DRAWN BY: RW

FIGURE:

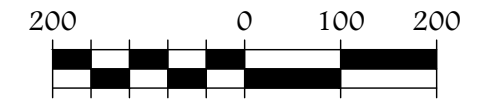
CHECKED BY: MM

3A





ATLANTIC COAST CONSULTING, INC.



SCALE (IN FEET)

LEGEND:

EXISTING	DESCRIPTION
	EXISTING 100-FOOT BUFFER ZONE
	WASTE MANAGEMENT BOUNDARY
	GWC-1A 46.79 DETECTION MONITORING WELL GROUNDWATER ELEVATION (FT NAVD88)
	PZ-1 46.35 PIEZOMETER GROUNDWATER ELEVATION (FT NAVD88)
	47 GROUNDWATER ELEVATION CONTOUR (FT NAVD88)
	GROUNDWATER FLOW DIRECTION

- NOTES:
1. DEPTHS TO WATER MEASURED JANUARY 31, 2023.
 2. FT NAVD88 = FEET RELATIVE TO NORTH AMERICAN VERTICAL DATUM OF 1988.
 3. MONITORING WELLS GWA-1A, GWC-1, GWC-5, AND GWC-6 WERE ABANDONED ON FEBRUARY 7, 2023 PER MINOR MODIFICATION DATED OCTOBER 5, 2022.
 4. PIEZOMETERS PZ-4 AND PZ-5 WERE INSTALLED IN JANUARY 2022.
 5. AERIAL DATED JANUARY 2023 FROM SAM, LLC. ADDITIONAL PHOTOGRAPHY DATED 2022 FROM MICROSOFT CORPORATION, MAXAR, CNES, DISTRIBUTION AIRBUS DS.

PROJECT



GEORGIA POWER COMPANY
PLANT McINTOSH
INACTIVE LANDFILL No. 3

2023 ANNUAL GROUNDWATER MONITORING
AND CORRECTIVE ACTION REPORT

**POTENTIOMETRIC CONTOUR MAP
JANUARY 2023**

PROJECT NO. I054-117

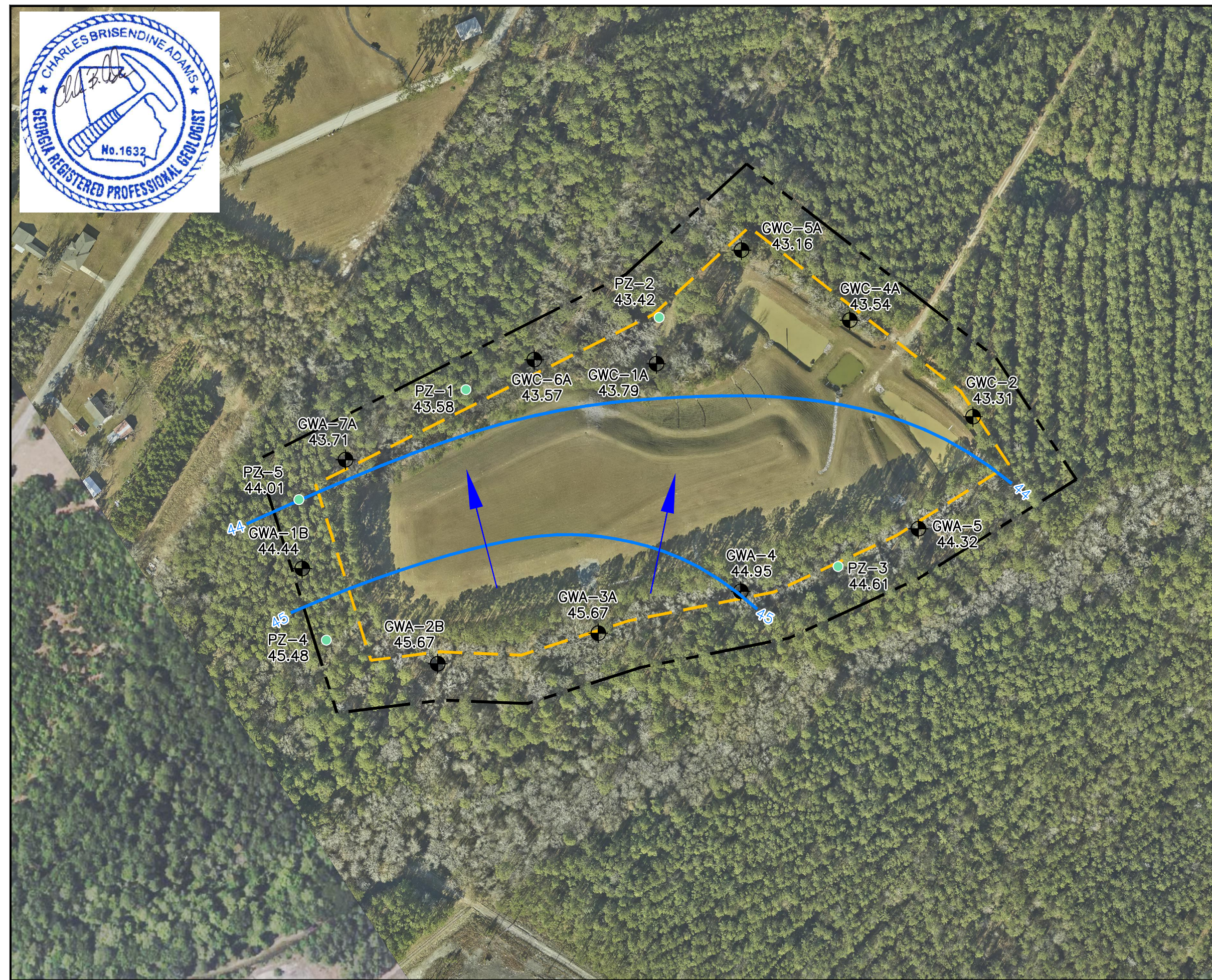
July 2023

DRAWN BY: RW

FIGURE:

CHECKED BY: MM

3B



APPENDICES

APPENDIX A

WELL ABANDONMENT REPORT



**Georgia Power Company
Plant McIntosh Inactive Landfill No. 3**

Rincon, Georgia
PERMIT #: 051-008D(LI)
Effingham County

**WELL ABANDONMENT
REPORT**



**ATLANTIC COAST
CONSULTING, INC.**

TABLE OF CONTENTS

Section	Page No.
PROFESSIONAL GEOLOGIST CERTIFICATION	2
1.0 INTRODUCTION	3
2.0 ABANDONMENT PROTOCOLS	3
2.1 Well Abandonments.....	3
2.2 Hunt Club Well Abandonment.....	3
3.0 REFERENCES	4

Figures

Figure 1 - Well Location Map

Tables

Table 1 - Well Summary

Appendices

Appendix A - Driller's Bonds, Boring/Well Construction Logs,
State Abandonment Form

Appendix B - Well Abandonment Logs

Appendix C - Hunt Club Well Abandonment Log

PROFESSIONAL GEOLOGIST CERTIFICATION

I, Charles B. Adams, certify that I am a qualified groundwater scientist as demonstrated by a Georgia state registered professional geologist certification, in accordance with the Georgia Rules of Solid Waste Management, 391-3-4-.01. I have sufficient training and experience in groundwater hydrology and related fields to make sound professional judgments regarding groundwater monitoring and contaminant fate and transport. I further certify that the data in this report have been prepared by me or a subordinate working under my direction.



Charles B. Adams, P.G.
Georgia P.G. Registration Number 1632
Date: February 24, 2023

1.0 INTRODUCTION

Plant McIntosh is located at 981 Old Augusta Central Road, in Effingham County, Georgia, approximately 4 miles northeast of the City of Rincon, and 20 miles north of the City of Savannah. The plant is situated on approximately 2,300 acres west of the Savannah River. Plant McIntosh Inactive Landfill No. 3 is located on the southwestern portion of the plant property.

A groundwater monitoring system was installed within the uppermost aquifer at Plant McIntosh Inactive Landfill No. 3. The monitoring system is designed to monitor groundwater passing the waste boundary of the Coal Combustion Residual (CCR) Unit within the uppermost aquifer. **Figure 1**, Well Location Map, shows the site monitoring wells, piezometers, and “Hunt Club” well location. The objective of this report is to document the abandonment of four wells and the abandonment of the “Hunt Club” water well. A minor modification was submitted in GEOS, submittal identification 701522, to remove four wells from the network (GWA-1A, GWC-1, GWC-5, and GWC-6) and to remove the “Hunt Club” well as the well is no longer in use and all associated infrastructure has been removed. This modification was approved in an Environmental Protection Division (EPD) letter dated December 19, 2022.

2.0 ABANDONMENT PROTOCOLS

Wells were abandoned in accordance with the Groundwater Monitoring Plan, the Georgia EPD 1991 Manual for Groundwater Monitoring, and the U.S. Environmental Protection Agency 2018 Design and Installation of Monitoring Wells, SESDGUID-101-R2. Field work for this project occurred from February 6 to 16, 2023 under the direction of Charles Adams, P.G. (Georgia P.G. No. 1632) and field supervision of Taylor Goble (Georgia P.G. No. 2364). The abandonments for GWA-1A, GWC-1, GWC-5, and GWC-6 were performed by Southern Company Services, Inc. Civil Field Services, and the abandonment of the “Hunt Club” well was performed by Cascade Drilling, L.P. (Cascade), a licensed water well driller in Georgia with a valid bond provided in **Appendix A**. A copy of the State abandonment form is included in **Appendix A**. A summary of construction details for wells GWA-1A, GWC-1, GWC-5, and GWC-6 is provided in **Table 1**. A well location map is provided as **Figure 1**. Boring and well construction logs are included in **Appendix A**.

2.1 Well Abandonments

The well abandonments of GWA-1A, GWC-1, GWC-5, and GWC-6 were completed by Southern Company Services, Inc., Civil Field Services (bond copy in **Appendix A**). Depths to water and total well depths were measured at each location on February 7, 2023, prior to abandonment. The wells were filled from the bottom up, utilizing the tremie pipe method, with a mixture of AquaGuard grout up to the top of well casing. The surface completions (outer steel casing, concrete pad, and concrete bollards) were then removed and disposed of at an approved location on site. The well riser pipe was cut and removed to a depth of approximately 3 feet below ground surface. Locations were rechecked for grout settlement and additional grout was added to ensure the grout column was flush with the ground surface. Abandonment logs are provided in **Appendix B**.

2.2 Hunt Club Well Abandonment

The Hunt Club well abandonment was completed by grouting in place by Cascade, a licensed water well driller, bonded in Georgia (a copy of bond is in **Appendix A**). The depth to water and total well depth was measured prior to abandonment. Construction information on the “Hunt

Club” well is not available. Prior to abandonment Cascade utilized a downhole camera to inspect the well casing and the depth was verified using a weighted tag line. There were no obstructions in the well. Prior to abandonment the in-place plumbing of the well was secured and the pump and associated lines were removed from the well. The well was tremie grouted with AquaGuard up to 60 feet below ground, and the remainder of the casing was filled with a non-shrinking Portland Type I cement grout. The cement was mixed with a ratio of 6 gallons of water per 94 pounds of Portland Type I cement. Then the casing was cut off approximately 3 feet below the ground surface and the protective cover was removed. An abandonment log is provided in **Appendix C**.

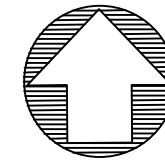
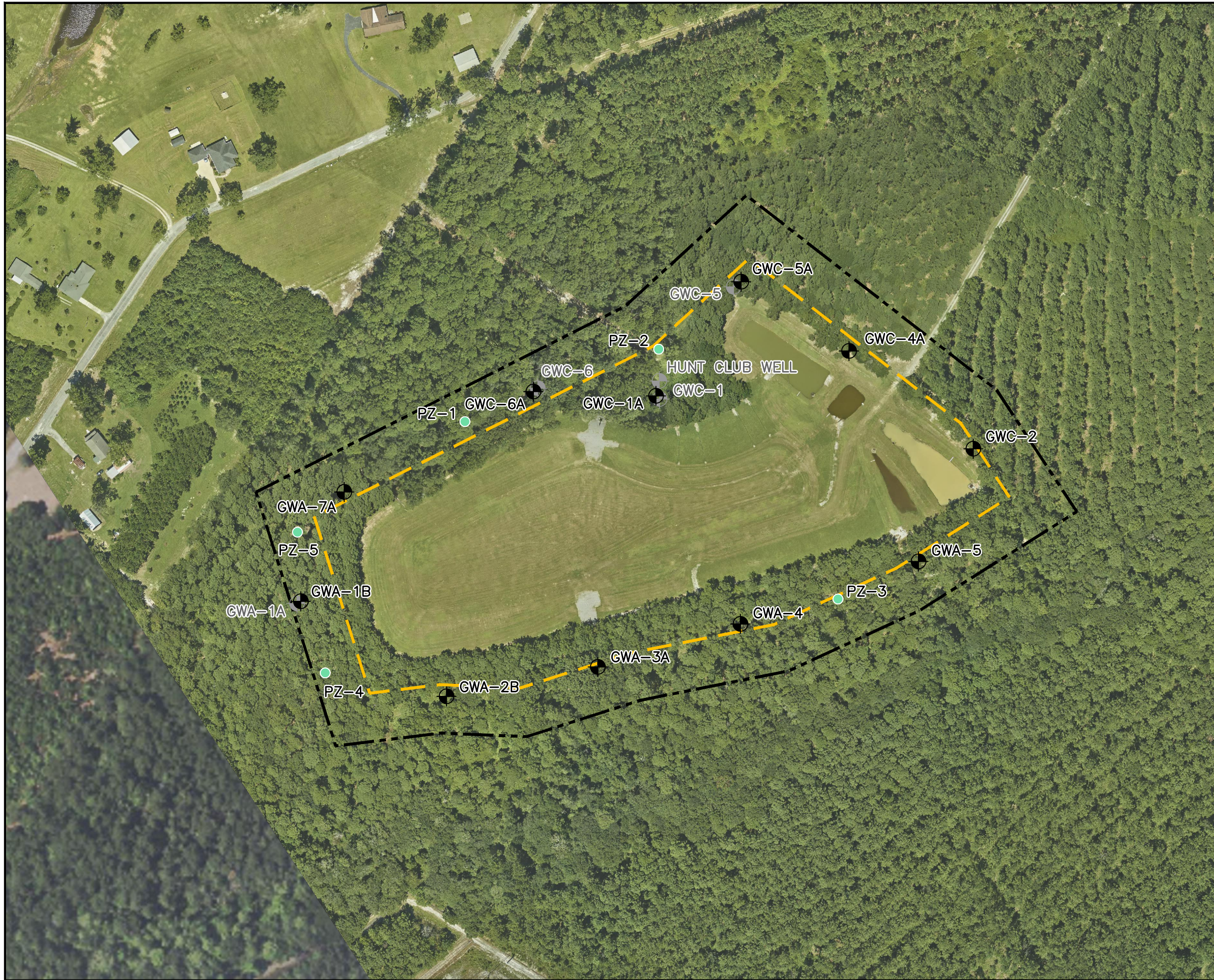
3.0 REFERENCES

Georgia Environmental Protection Division, Georgia Department of Natural Resources, 1991. *Manual for Groundwater Monitoring*, September 1991.

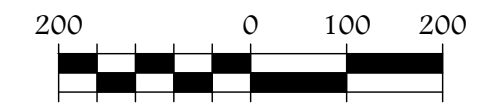
Georgia Power, 2022. *Request for Minor Modification to Groundwater Monitoring Network*, October 6, 2022, GEOS Submittal Id.: 701522.

U.S. Environmental Protection Agency Region 4, Science and Ecosystem Support Division, 2018. *Design and Installation of Monitoring Wells*, SESDGUID-101-R2, Effective Date January 16, 2018.

FIGURE



ATLANTIC COAST
CONSULTING, INC.



SCALE (IN FEET)

LEGEND:

EXISTING	DESCRIPTION
	EXISTING 100-FOOT BUFFER ZONE
	WASTE MANAGEMENT BOUNDARY
	GWC-1A WELL
	PZ-1 PIEZOMETER
	GWA-1A ABANDONED PIEZOMETER

NOTES:

1. AERIAL DATED 8/25/2022 FROM SAM, LLC. ADDITIONAL PHOTOGRAPHY DATED 2022 FROM MICROSOFT CORPORATION, MAXAR, CNES, DISTRIBUTION AIRBUS DS.
2. PIEZOMETERS GWA-1A, GWC-1, GWC-5, AND GWC-6 WERE ABANDONED ON FEBRUARY 7, 2023 AND THE HUNT CLUB WELL WAS ABANDONED ON FEBRUARY 20, 2023 PER MINOR MODIFICATION APPROVED ON OCTOBER 5, 2022.

PROJECT



GEORGIA POWER COMPANY
PLANT McINTOSH
INACTIVE LANDFILL No. 3

WELL ABANDONMENT REPORT

WELL LOCATION MAP

PROJECT NO. IO54-117

February 2023

DRAWN BY: MM

FIGURE:

CHECKED BY: CA

1

TABLE



**Table 1
Well Summary
Plant McIntosh Inactive Landfill No. 3
Effingham County, Georgia**

Well	Installation Date (mm/dd/yyyy)	Northing	Easting	Top of Casing Elevation (NAVD88)	Bottom Depth (ft BTOC)	Bottom Elevation (NAVD88)	Depth to Top of Screen (ft BTOC)	Top of Screen Elevation (NAVD88)	Purpose
GWA-1A	01/05/2017	852023.48	954556.79	66.76	37.53	29.23	27.53	39.23	Upgradient
GWC-1	01/22/1996	852446.79	955308.31	66.08	35.95	30.13	26.15	39.93	Downgradient
GWC-5	05/05/1998	852679.23	955461.61	68.08	31.00	37.08	21.15	46.93	Downgradient
GWC-6	05/06/1998	852469.31	955055.59	68.51	32.64	35.87	26.73	41.78	Downgradient

Notes:

1. ft BTOC indicates feet below top of casing.
2. Northings and eastings are feet relative to North American Datum 1983 (NAD83), State Plane Georgia East Zone.
3. NAVD88 indicates feet relative to North American Vertical Datum of 1988.

APPENDICES

APPENDIX A

Driller's Bonds, Boring/Well Construction Logs State Abandonment Form



Power of Attorney

KNOW ALL MEN BY THESE PRESENTS, that ATLANTIC SPECIALTY INSURANCE COMPANY, a New York corporation with its principal office in Plymouth, Minnesota, does hereby constitute and appoint: **Deanna M. French, Susan B. Larson, Elizabeth R. Hahn, Jana M. Roy, Scott McGilvray, Mindee L. Rankin, Ronald J. Lange, John R. Claeys, Roger Kaltenbach, Guy Armfield, Scott Fisher, Andrew P. Larsen, Nicholas Fredrickson, William M. Smith, Derek Sabo, Charla M. Boadle**, each individually if there be more than one named, its true and lawful Attorney-in-Fact, to make, execute, seal and deliver, for and on its behalf as surety, any and all bonds, recognizances, contracts of indemnity, and all other writings obligatory in the nature thereof; provided that no bond or undertaking executed under this authority shall exceed in amount the sum of: **unlimited** and the execution of such bonds, recognizances, contracts of indemnity, and all other writings obligatory in the nature thereof in pursuance of these presents, shall be as binding upon said Company as if they had been fully signed by an authorized officer of the Company and sealed with the Company seal. This Power of Attorney is made and executed by authority of the following resolutions adopted by the Board of Directors of ATLANTIC SPECIALTY INSURANCE COMPANY on the twenty-fifth day of September, 2012:

Resolved: That the President, any Senior Vice President or Vice-President (each an "Authorized Officer") may execute for and in behalf of the Company any and all bonds, recognizances, contracts of indemnity, and all other writings obligatory in the nature thereof, and affix the seal of the Company thereto; and that the Authorized Officer may appoint and authorize an Attorney-in-Fact to execute on behalf of the Company any and all such instruments and to affix the Company seal thereto; and that the Authorized Officer may at any time remove any such Attorney-in-Fact and revoke all power and authority given to any such Attorney-in-Fact.

Resolved: That the Attorney-in-Fact may be given full power and authority to execute for and in the name and on behalf of the Company any and all bonds, recognizances, contracts of indemnity, and all other writings obligatory in the nature thereof, and any such instrument executed by any such Attorney-in-Fact shall be as binding upon the Company as if signed and sealed by an Authorized Officer and, further, the Attorney-in-Fact is hereby authorized to verify any affidavit required to be attached to bonds, recognizances, contracts of indemnity, and all other writings obligatory in the nature thereof.

This power of attorney is signed and sealed by facsimile under the authority of the following Resolution adopted by the Board of Directors of ATLANTIC SPECIALTY INSURANCE COMPANY on the twenty-fifth day of September, 2012:

Resolved: That the signature of an Authorized Officer, the signature of the Secretary or the Assistant Secretary, and the Company seal may be affixed by facsimile to any power of attorney or to any certificate relating thereto appointing an Attorney-in-Fact for purposes only of executing and sealing any bond, undertaking, recognizance or other written obligation in the nature thereof, and any such signature and seal where so used, being hereby adopted by the Company as the original signature of such officer and the original seal of the Company, to be valid and binding upon the Company with the same force and effect as though manually affixed.

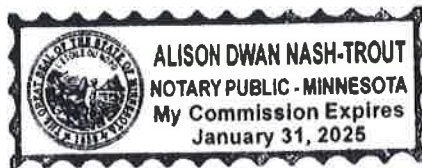
IN WITNESS WHEREOF, ATLANTIC SPECIALTY INSURANCE COMPANY has caused these presents to be signed by an Authorized Officer and the seal of the Company to be affixed this twenty-seventh day of April, 2020.



By *Paul J. Brehm*
Paul J. Brehm, Senior Vice President

STATE OF MINNESOTA
HENNEPIN COUNTY

On this twenty-seventh day of April, 2020, before me personally came Paul J. Brehm, Senior Vice President of ATLANTIC SPECIALTY INSURANCE COMPANY, to me personally known to be the individual and officer described in and who executed the preceding instrument, and he acknowledged the execution of the same, and being by me duly sworn, that he is the said officer of the Company aforesaid, and that the seal affixed to the preceding instrument is the seal of said Company and that the said seal and the signature as such officer was duly affixed and subscribed to the said instrument by the authority and at the direction of the Company.

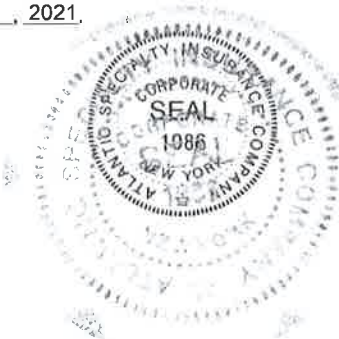


Alison Nash-Trout
Notary Public

I, the undersigned, Secretary of ATLANTIC SPECIALTY INSURANCE COMPANY, a New York Corporation, do hereby certify that the foregoing power of attorney is in full force and has not been revoked, and the resolutions set forth above are now in force.

Signed and sealed. Dated 12 day of April, 2021.

This Power of Attorney expires
January 31, 2025



Kara Barrow
Kara Barrow, Secretary

CONTINUATION
CERTIFICATE

Atlantic Specialty Insurance Company

, Surety upon

a certain Bond No. 800033976

dated effective 09/27/2017
(MONTH-DAY-YEAR)

on behalf of Ricky Davis / Cascade Drilling, L.P.
(PRINCIPAL)

and in favor of Department of Natural Resources, State of Georgia
(OBLIGEE)

does hereby continue said bond in force for the further period

beginning on 06/30/2021
(MONTH-DAY-YEAR)

and ending on 06/30/2023
(MONTH-DAY-YEAR)

Amount of bond Thirty Thousand and 00/100 Dollars (\$30,000.00)

Description of bond Performance Bond for Water Well Contractors

PROVIDED: That this continuation certificate does not create a new obligation and is executed upon the express condition and provision that the Surety's liability under said bond and this and all Continuation Certificates issued in connection therewith shall not be cumulative and that the said Surety's aggregate liability under said bond and this and all such Continuation Certificates on account of all defaults committed during the period (regardless of the number of years) said bond had been and shall be in force, shall not in any event exceed the amount of said bond as hereinbefore set forth.

Signed and dated on April 12th, 2021
(MONTH-DAY-YEAR)

Atlantic Specialty Insurance Company

By 
Attorney-in-Fact Andrew P. Larsen

Parker, Smith & Feek, Inc.

Agent
2233 112th Ave NE Bellevue, WA 98004

Address of Agent

425-709-3600

Telephone Number of Agent

CONTINUATION
CERTIFICATE

SAFECO Insurance Company of America

, Surety upon

a certain Bond No. **4993104**

dated effective June 30, 1987
(MONTH-DAY-YEAR)

on behalf of Southern Company Services, Inc.
(PRINCIPAL)

and in favor of Georgia Department of Natural Resources, Environmental Protection Division
(OBLIGEE)

does hereby continue said bond in force for the further period

beginning on June 30, 2021
(MONTH-DAY-YEAR)

and ending on June 30, 2022
(MONTH-DAY-YEAR)

Amount of bond Fifteen Thousand Dollars and 00/100 (\$15,000.00)

Description of bond Water Well Contractors & Drillers

Premium: \$100.00

PROVIDED: That this continuation certificate does not create a new obligation and is executed upon the express condition and provision that the Surety's liability under said bond and this and all Continuation Certificates issued in connection therewith shall not be cumulative and that the said Surety's aggregate liability under said bond and this and all such Continuation Certificates on account of all defaults committed during the period (regardless of the number of years) said bond had been and shall be in force, shall not in any event exceed the amount of said bond as hereinbefore set forth.

Signed and dated on 05/06/2021
(MONTH-DAY-YEAR)
SAFECO Insurance Company of America
175 Berkeley Street, Boston, MA 02116

By 
Attorney-in-Fact Jeffrey M. Wilson, Attorney-in-Fact

McGriff Insurance Services, Inc.
Agent
2211 7th Avenue South, Birmingham, AL 35233
Address of Agent
(205) 252-9871
Telephone Number of Agent

CONTINUATION
CERTIFICATE

SAFECO Insurance Company of America

, Surety upon

a certain Bond No. **4993104**

dated effective June 30, 1987
(MONTH-DAY-YEAR)

on behalf of Southern Company Services, Inc.
(PRINCIPAL)

and in favor of Georgia Department of Natural Resources, Environmental Protection Division
(OBLIGEE)

does hereby continue said bond in force for the further period

beginning on June 30, 2022
(MONTH-DAY-YEAR)

and ending on June 30, 2023
(MONTH-DAY-YEAR)

Amount of bond Fifteen Thousand Dollars and 00/100 (\$15,000.00)

Description of bond Water Well Contractors & Drillers

Premium: \$100.00

PROVIDED: That this continuation certificate does not create a new obligation and is executed upon the express condition and provision that the Surety's liability under said bond and this and all Continuation Certificates issued in connection therewith shall not be cumulative and that the said Surety's aggregate liability under said bond and this and all such Continuation Certificates on account of all defaults committed during the period (regardless of the number of years) said bond had been and shall be in force, shall not in any event exceed the amount of said bond as hereinbefore set forth.

Signed and dated on 05/06/2021
(MONTH-DAY-YEAR)

SAFECO Insurance Company of America

175 Berkeley Street, Boston, MA 02116

By 
Attorney-in-Fact Jeffrey M. Wilson, Attorney-in-Fact

McGriff Insurance Services, Inc.

Agent

2211 7th Avenue South, Birmingham, AL 35233

Address of Agent

(205) 252-9871

Telephone Number of Agent



This Power of Attorney limits the acts of those named herein, and they have no authority to bind the Company except in the manner and to the extent herein stated.

American States Insurance Company
First National Insurance Company of America
General Insurance Company of America
Safeco Insurance Company of America

Certificate No: 8205019-016032

POWER OF ATTORNEY

KNOWN ALL PERSONS BY THESE PRESENTS: That American States Insurance Company is a corporation duly organized under the laws of the State of Indiana, that First National Insurance Company of America, General Insurance Company of America, and Safeco Insurance Company of America are corporations duly organized under the laws of the State of New Hampshire (herein collectively called the "Companies"), pursuant to and by authority herein set forth, does hereby name, constitute and appoint, Alisa B. Ferris; Anna Childress; Jeffrey M. Wilson; Mark W. Edwards II, Richard H. Mitchell, Robert R. Freel; Sam Audia; William M. Smith

all of the city of Birmingham state of AL each individually if there be more than one named, its true and lawful attorney-in-fact to make, execute, seal, acknowledge and deliver, for and on its behalf as surety and as its act and deed, any and all undertakings, bonds, recognizances and other surety obligations, in pursuance of these presents and shall be as binding upon the Companies as if they have been duly signed by the president and attested by the secretary of the Companies in their own proper persons.

IN WITNESS WHEREOF, this Power of Attorney has been subscribed by an authorized officer or official of the Companies and the corporate seals of the Companies have been affixed thereto this 11th day of March, 2021.

American States Insurance Company
First National Insurance Company of America
General Insurance Company of America
Safeco Insurance Company of America

By: David M. Carey, Assistant Secretary



State of PENNSYLVANIA ss
County of MONTGOMERY

On this 11th day of March, 2021 before me personally appeared David M. Carey, who acknowledged himself to be the Assistant Secretary of American States Insurance Company, First National Insurance Company of America, General Insurance Company of America, and Safeco Insurance Company of America, and that he, as such, being authorized so to do, execute the foregoing instrument for the purposes therein contained by signing on behalf of the corporations by himself as a duly authorized officer.

IN WITNESS WHEREOF, I have hereunto subscribed my name and affixed my notarial seal at King of Prussia, Pennsylvania, on the day and year first above written.



Commonwealth of Pennsylvania - Notary Seal
Teresa Pastella, Notary Public
Montgomery County
My commission expires March 28, 2025
Commission number 1126044
Member, Pennsylvania Association of Notaries

By: Teresa Pastella, Notary Public

This Power of Attorney is made and executed pursuant to and by authority of the following By-law and Authorizations of American States Insurance Company, First National Insurance Company of America, General Insurance Company of America, and Safeco Insurance Company of America, which are now in full force and effect reading as follows:

ARTICLE IV - OFFICERS: Section 12. Power of Attorney.

Any officer or other official of the Corporation authorized for that purpose in writing by the Chairman or the President, and subject to such limitation as the Chairman or the President may prescribe, shall appoint such attorneys-in-fact, as may be necessary to act in behalf of the Corporation to make, execute, seal, acknowledge and deliver as surety any and all undertakings, bonds, recognizances and other surety obligations. Such attorney-in-fact, subject to the limitations set forth in their respective powers of attorney, shall have full power to bind the Corporation by their signature and executed, such instruments shall be as binding as if signed by the President and attested to by the Secretary. Any power or authority granted to any representative or attorney-in-fact under the provisions of this article may be revoked at any time by the Board, the Chairman, the President or by the officer or officers granting such power or authority.

Certificate of Designation - The President of the Company, acting pursuant to the Bylaws of the Company, authorizes David M. Carey, Assistant Secretary to appoint such attorneys-in-fact as may be necessary to act on behalf of the Company to make, execute, seal, acknowledge and deliver as surety any and all undertakings, bonds, recognizances and other surety obligations.

Authorization - By unanimous consent of the Company's Board of Directors, the Company consents that facsimile or mechanically reproduced signature of any assistant secretary of the Company, wherever appearing upon a certified copy of any power of attorney issued by the Company in connection with surety bonds, shall be valid and binding upon the Company with the same force and effect as though manually affixed.

I, Renee C. Llewellyn, the undersigned, Assistant Secretary, of American States Insurance Company, First National Insurance Company of America, General Insurance Company of America, and Safeco Insurance Company of America do hereby certify that the original power of attorney of which the foregoing is a full, true and correct copy of the Power of Attorney executed by said Companies, is in full force and effect and has not been revoked.

IN TESTIMONY WHEREOF, I have hereunto set my hand and affixed the seals of said Companies this 6th day of May, 2021.



By: Renee C. Llewellyn, Assistant Secretary

Not valid for mortgage, note, loan, letter of credit, currency rate, interest rate or residual value guarantees.

For bond and/or Power of Attorney (POA) verification inquiries, please call 610-832-8240 or email HOSUR@libertymutual.com.



ERM
 3200 Windy Hill Rd Ste 1500W
 Atlanta, GA 30339
 Telephone: 678-486-2700

WELL NUMBER GWA-1A

PAGE 1 OF 1

CLIENT Southern Company Services, Inc.
PROJECT NUMBER 0372382
DATE STARTED 1/4/17 **COMPLETED** 1/5/17
DRILLING CONTRACTOR Southern Company Services, Inc
DRILLING METHOD Hollow Stem Auger 2"
LOGGED BY NGV **CHECKED BY** ALR
NOTES

PROJECT NAME Plant McIntosh
PROJECT LOCATION Ash Disposal Site
#3 GROUND ELEVATION 64.23 **HOLE SIZE** 8 inches
GROUND WATER LEVELS AFTER DRILLING: 6.17 ft / Elev 57.63 ft
Northing 852023.48
Easting 954556.79



GENERAL BH / TP / WELL - GINT STD US LAB.GDT - 3/30/17 10:39 - C:\USERS\PUBLIC\DOCUMENTS\BENTLEY\GINT\PROJECTS\GWA-1A.GPJ

DEPTH (ft)	SAMPLE TYPE NUMBER	RECOVERY %	BLOW COUNTS (N VALUE)	U.S.C.S.	GRAPHIC LOG	MATERIAL DESCRIPTION	WELL DIAGRAM
0							← Casing Top Elev: 66.76 Casing Type: PVC
2.5	SS	100	3-3-4 (7)	SP		(SP) loose light gray, fine grained SAND, loose, poorly graded, subrounded, dry	61.7
5.0	SS	100	7-5-11 (16)	SP-SC		(SP-SC) light gray, fine grained SAND with Clay, medium dense, poorly graded, subrounded, moist	59.2
7.5	SS	100	3-2-4 (6)	SP-SC		(SP-SC) light gray, fine grained SAND with Clay, medium dense, poorly graded, subrounded, wet	56.7
10.0	SS	100	5-8-6 (14)	SC		(SC) light gray, fine grained Clayey SAND, medium dense, poorly graded, subrounded, wet	54.2
15.0	SS	100	1-2-2 (4)	SC		(SC) light gray, fine grained Clayey SAND, medium dense, poorly graded, subrounded, wet, trace clay nodules	49.2
20.0	SS	100	3-3-5 (8)	CL		(CL) light gray, Sandy CLAY, very stiff, moderate plasticity, wet	44.2
25.0	SS	100	3-3-2 (5)	SC		(SC) light gray and tan, fine grained Clayey SAND, dense, poorly graded, subrounded, wet	39.2
30.0	SS	100		SC		(SC) light gray and tan, more tan than above, fine grained Clayey SAND, dense, poorly graded, subrounded, wet	34.2
35.0	SS	100	1-2-1 (3)	CL		(CL) light gray, Sandy CLAY, medium stiff, moderate plasticity, wet	29.2
40.0	SS	100	5-5-5 (10)	CL		(CL) light gray, Sandy CLAY, medium stiff, moderate plasticity, wet	24.2
Bottom of borehole at 40.0 feet.							

← Casing Top Elev: 66.76
 Casing Type: PVC

← 70/30 Portland Cement / bentonite mix

← Pel Plug 3/8"

← 20/40 industrial quartz ANSI std 61 4" UPack

NAVD = feet North American Vertical Datum of 1988.
 Coordinates are in NAD 1983 Georgia State Plane East Zone.
 Well resurveyed June 2020.



WELL CONSTRUCTION LOG		PROJECT Plant McIntosh Groundwater Monitoring Plan		WELL NO. GWC-1
SITE Hunt Club-Ash Disposal Area #3		LOCATION N 852446.79 E 955308.31		
BEGUN 1/22/96	COMPLETED 1/22/96	PREPARED BY Terri Hartsfield	WATER LEVEL EL. 53.81	CONTRACTOR SCS - Atlanta

		DEPTH	ELEV.
VENT HOLES		-2.45	66.08
TOP OF RISER CASING TOP OF CONTINUOUS POUR CONCRETE CAP AND WELL APRON			
GROUND SURFACE		0.0	63.63
PROTECTIVE CASING DIA: 4" x 4" TYPE: STEEL			
BOTTOM OF PROTECTIVE CASING		2.0	61.63
TOP OF BACKFILL		2.0	61.63
BACKFILL MATERIAL TYPE: TYPE I PORTLAND CEMENT/ 3% BENTONITE GROUT			
RISER CASING DIA: 2" ID 2.5" OD TYPE: SCHEDULE 40 PVC - FLUSH JOINTED DSI THREAD			
TOP OF SEAL		16.6	47.03
ANNULAR SEAL TYPE: 0.25" BENTONITE PELLETS			
TOP OF FILTER PACK		18.0	45.63
FILTER PACK TYPE: #2 FILTER SAND (7 BAGS)			
BOTTOM OF RISER/TOP OF SCREEN		23.7	39.93
SCREEN DIA: 2" ID 2.5" OD TYPE: PVC OPENINGS WIDTH: 0.01" 2.125" LONG OPENING TYPE: SLOTTED			
BOTTOM OF SCREEN		33.0	30.63
BOTTOM OF CASING/SUMP		33.5	30.13
BOTTOM OF HOLE		33.5	30.13
HOLE DIA.			

CONCRETE WELL APRON
6' IN DIAMETER

NAVD = feet North American Vertical Datum of 1988.
Coordinates are in NAD 1983 Georgia State Plane East Zone.
Well resurveyed June 2020.

8.25"

Well Identification	GWC-1
Name of Drillers	Jeff Gilreath David Ivey Melvin Hughes
Identification of Drill Rig	CME 75 Serial # 242227
Drilling Method	Hollow Stem Auger w/ Continuous Sampler
Well Location	N 852446.79 E 955308.31
Borehole Diameter	8.25"
Well Casing Diameter	2" I. D.
Well Depth	33.5'
Casing Materials	Schedule 40 PVC
Screen Materials	Schedule 40 PVC
Screen Design	Slotted
Casing and Screen Joint Type	Flush Jointed
Screen Slot Size	0.01"
Screen Slot Length	2 1/8"
Filter Pack Material and Size	#2 filter sand
Filter Pack Volume	7 bags (~ 3.5 cu. ft.)
Filter Pack Placement Method	tremie
Sealant Materials	0.25" bentonite pellets
Sealant Volume	0.47 cu. ft.
Sealant Placement Method	tremie
Well Development Procedures	Grunfos Rediflo
Type of Protective Well Cap	locking, compression ring

Southern Company Services, Inc. Soil Boring Log



Project: Plant McIntosh Groundwater Monitoring Plan	HOLE No. GWC-1
Location: Ash Disposal Site No. 3	SHEET 1 OF 1
Purpose: Install 2" Monitoring Well	
Position: N 852446.79, E: 955308.31	Surface Elevation: 63.63
Rig Type: CME 75	Contractor: SCS Atlanta Driller: Jeff Gilreath
Drilling Method: Hollow Stem Auger	Boring Depth: 33.5 No. SPT: 7 No. UD Samples: 0
Date Started: 1/22/96	Date Completed: 1/22/96 Logged By: Terri Hartsfield Date Logged: 1/22/96
Hole Closure: 2" Monitoring Well	

WATER TABLE	DEPTH AND ELEV. (FT)	SYMBOLIC LOG	SOIL DESCRIPTION	SAMPLE			COMMENTS	TEST RESULTS				
				NUMBER	LEGEND	RECOVERY (%)		SPT VALUES BLOWS/6" (N)	MOISTURE CONTENT (%)	LIQUID LIMIT (%)	PLASTIC LIMIT (%)	K (cm/s)
	63.63		3" Dark Gray TOPSOIL	SS-1		100	Auger w/ Continuous Sampler					
	63.63		Light Gray Slightly Silty Fine SAND									
			Organgish Brown and Gray Silty Fine SAND									
	58.63		Orange and Gray, Stiff, Silty Fine SAND to Fine Sandy SILT	SS-2		100						
	53.63			SS-3		100						
	48.63		Grades to Dark Red, Stiff, Plastic CLAY/SILT interlayered with Gray and Tan Silty Sand to Fine Sandy Silt	SS-4		100						
	43.63		Mottled Pink and Gray, Fine, Clayey, Silty SAND w/Layers of Gray and Orange interlayered Clayey Sand	SS-5		100						
	38.63		Orangish Brown and Gray Silty SAND interlayered w/Stiff, Pink Sandy CLAY	SS-6		30						
	33.63			SS-7		100						
	30.13		*Boring Terminated @ 33.5'									

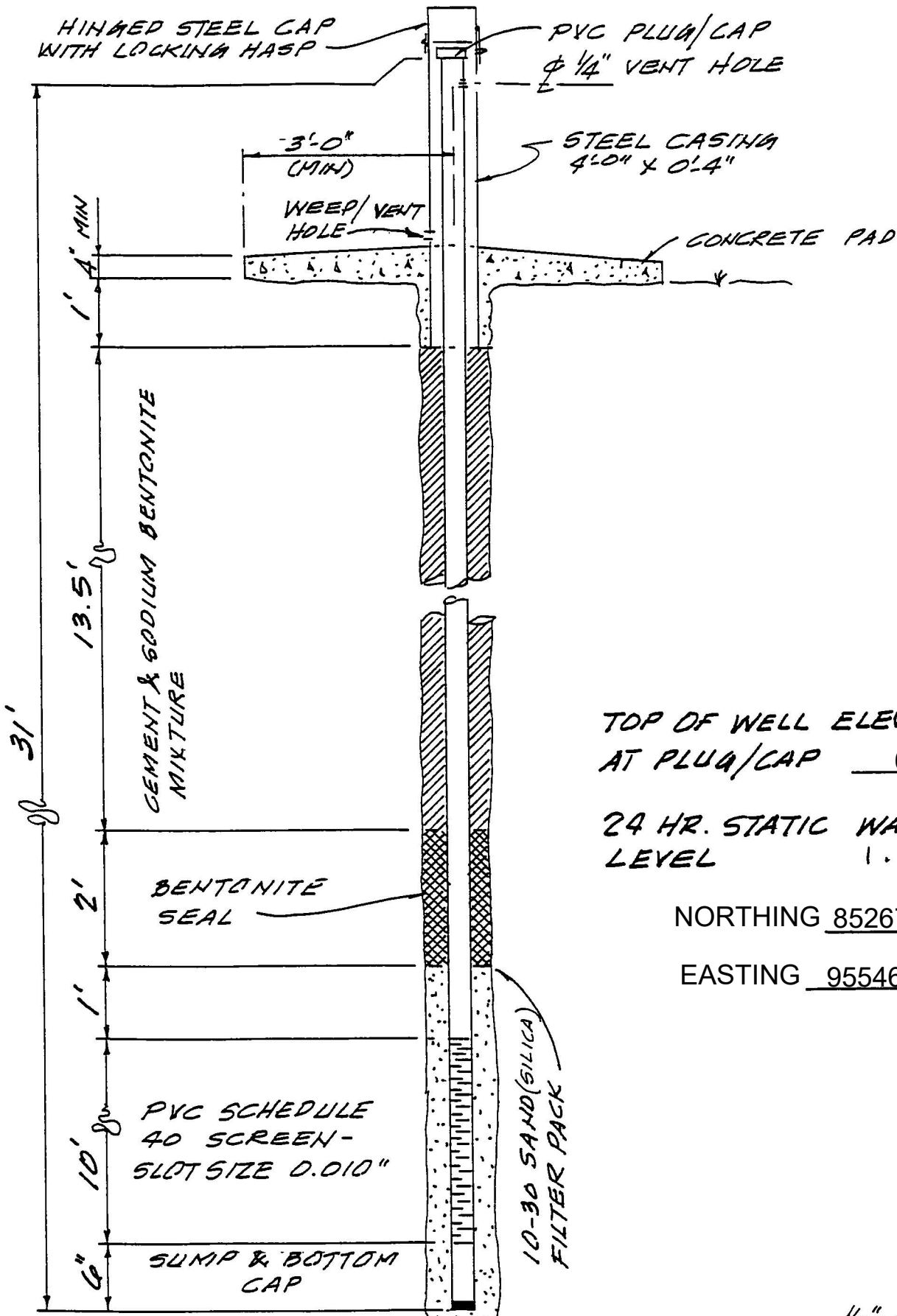
SS = Split Spoon; ST = Shelby Tube;
D = Dennison; P = Pitcher; O = Other

while drilling
 after drilling

11.09 after 24 hours

Hole No.
GWC-1

WELL N^o AWC-5



TOP OF WELL ELEVATION
AT PLUG/CAP 68.08

24 HR. STATIC WATER
LEVEL 1.49'

NORTHING 852679.23

EASTING 955461.61

NAVD = feet North American Vertical Datum of 1988.
Coordinates are in NAD 1983 Georgia State Plane East Zone.
Well resurveyed June 2020.

SCALE: 1/2" = 1'-0" VERT.
1" = 1'-0" HORZ

TEST BORING RECORD

FIELD CLASSIFIED

ELEV.	DEPTH	DESCRIPTION	PENETRATION - BLOWS PER FOOT																
			0	10	20	40	60	80	100										
64.43	2.5'	SM Loose to very loose gray silty sand		●															
61.93				●															
	5'	CL Very soft to very stiff red-orange & gray fine sandy clay		●															
				●															
	10'																		
53.43	11'	SM-SC Very stiff to stiff, gray-tan & pink silty sand clay																	
	14'	CL Firm to stiff, red-orange fine sandy clay																	
50.43																			
	15'																		
	18'	SC																	
46.43																			
	20'	Stiff, tan-orange & gray fine sand clay																	
	25'																		
	26'	SP-SM Loose tan sand																	
38.43																			
	28'	SC Stiff, orange-gray sand clay																	
36.43																			
	30'	Boring Terminated																	
34.43																			

Penetration is number of blows of 140 lb. hammer falling 30 in. required to drive 2.0 in. O.D. sampler one foot.

BORING NO. G.W.C.-5

WHITAKER LABORATORY, INC.

JOB SEPCO Plant McIntosh

DATE 5/5/98

SITE: SEPCO Plant McIntosh, Rincon, GA WELL NO. G.W.C.-6

"AS-BUILT" DIAGRAM OF EACH WELL: attached

NAME OF DRILLER(S): Ron Wilkerson
Tim Wainwright
Joseph Whitaker
Carroll Crowther

TYPE OF DRILL RIG(S): Cannonball B-53

DRILLING METHOD: 6.25" I. D. hollow stem augers

WELL LOCATION: See the attached well schematic

BOREHOLE DIAMETER: 12.25 inches

WELL CASING DIAMETER: 2.0" I. D.

WELL DEPTH: 29'

DRILLING AND LITHOLOGIC LOGS: attached

CASING MATERIALS: 2.0" dia. ASTM, NSF rated, Schedule 40 PVC

SCREEN MATERIALS AND DESIGN: 2" to 4" dia. PVC with 0.01" slots
("Pre-Pac Dual-Wall Well Screen")

SCREENING AND CASING JOINT TYPE: flush threaded

SCREEN SLOT SIZE: 0.01" slots - 1.5" long (4 slots per diameter)
(8 slots per vertical inch)

SCREEN LENGTH: 5'

FILTER PACK MATERIAL/SIZE: 20/30 quartz (silica) sand

FILTER PACK VOLUME: 4.35 cu. ft.

FILTER PACK PLACEMENT METHOD: Tremie pipe

SEALANT MATERIALS: Course grit sodium benonite

SEALANT VOLUME: 1.55 cu. ft.

SEALANT PLACEMENT METHOD: Tremie pipe

SURFACE SEAL DESIGN/CONSTRUCTION: See the attached well schematic

WELL DEVELOPMENT PROCEDURE: Pumping/surging

TYPE OF PROTECTIVE WELL CAP: 4" x 4" x 4' locking steel cover

GROUND SURFACE ELEVATION: See the attached individual well schematic

WELL CAP ELEVATION: See the attached individual well schematic

DETAILED DRAWING OF WELL: See the attached individual well schematic

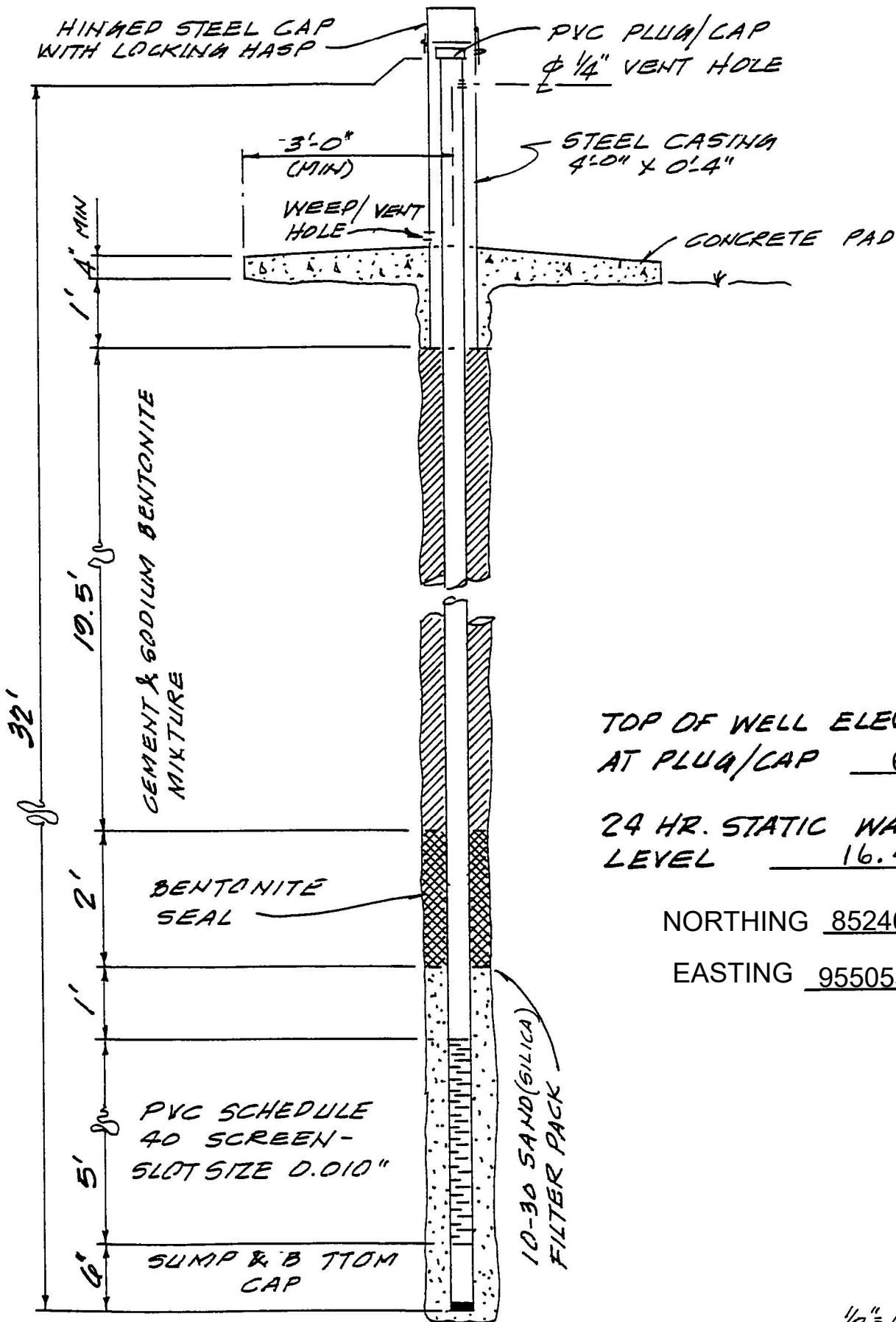
GENERAL WELL INSTALLATION PROCEDURES

Prior to drilling the first well, all equipment was steam cleaned. This process was repeated after installation of each well.

All monitoring wells were installed using hollow-stem augers to advance the holes.

END

WELL N^o AWC-6



TOP OF WELL ELEVATION
AT PLUG/CAP 68.51

24 HR. STATIC WATER
LEVEL 16.48'

NORTHING 852469.31

EASTING 955055.59

NAVD = feet American Vertical Datum of 1988.
Coordinates are in NAD 1983 Georgia State Plane East Zone.
Well resurveyed June 2020.

SCALE: $\frac{1}{2}'' = 1'-0''$ VERT.
 $1'' = 1'-0''$ HORZ

TE T BORING RECORD

FIELD CLASSIFIED

ELEV.	DEPTH	DESCRIPTION	PENETRATION - BLOWS PER FOOT																
			0	10	20	40	60	80	100										
65.28	3'	SM Very loose to loose, gray-tan silty sand	●	●															
62.28			●	●															
	5'	CL Soft to hard, red-orange & brown-gray fine sandy clay		●	●														
	10'				●														
55.28	15'	SC Stiff to very stiff gray-tan fine sand clay		●	●	●													
	20'			●	●	●													
50.28	24'	CL Stiff to very stiff gray-orange, fine sandy clay		●	●	●													
41.28	25'	SC Stiff to very stiff gray-tan fine sand clay		●	●	●													
	28'			●	●	●													
37.28	30'	SM-SC Stiff, tan silty sand clay		●	●	●													
35.28		Boring Terminated																	

Unit 1

Unit

Unit

Penetration is number of blows of 140 lb. hammer falling 30 in. required to drive 2.0 in. O.D. sampler one foot.

BORING NO. G.W.C-6

JOB SEPCO - Plant McIntosh

WHITAKER LABORATORY, INC.

Well Completion Data Form

Report Completion Date: 2/20/23

For New Construction Under Repair/Modification Completed Abandoned Wells

Property Owner Information			
Property Owner Name: Georgia Power - Plant McIntosh		Phone: 205-438-5893	Email: dbsmelse@southernco.com
Company / Farm / Municipality / Water System Name: McIntosh LF3 Hunt Club Well			
Address: 981 Old Augusta Rd. Central (No. and Street)		Rincon (City)	GA 31326 (State) (Zip)
Well Contractor Information			
Onsite Well Driller Name: Richard Mooney		License No. 651	Phone: 706-834-5509
Well Contractor Company Name: Cascade Drilling, LP			
Address: 905 South Main Street (No. and Street)		New Ellenton (City)	SC 29809 (State) (Zip)
Drilling under direction of Professional Geologist or Engineer Name: _____			License No. _____
Well Information			
<input type="checkbox"/> Public Drinking <input type="checkbox"/> Municipal <input type="checkbox"/> Industrial <input type="checkbox"/> Agricultural / Irrigation Well <input type="checkbox"/> Bore/core hole <input type="checkbox"/> Dewatering <input checked="" type="checkbox"/> Individual Drinking <input type="checkbox"/> Geothermal <input type="checkbox"/> Test / Monitoring <input type="checkbox"/> Injection <input type="checkbox"/> Other Well Type: _____			
Well Application or Permit Number: Unknown		Public Water System ID: _____	
<input type="checkbox"/> Permit/Concurrence Letter On-site		Public Water System Well Number: _____	
County where well is located: Effingham		Latitude: 32.340009	Longitude: -81.198099 Elevation: 64
Well Construction Description			
Well Drilling Information			
Total depth of well: 105.75 ft. Below Land Surface		<input type="checkbox"/> Rotary	<input type="checkbox"/> Percussion <input type="checkbox"/> Bored
Static water level: 73 ft. BLS		<input type="checkbox"/> Jetted	<input type="checkbox"/> Auger <input type="checkbox"/> Cable Tool
Date static water level measured: 2/15/23		<input type="checkbox"/> Horizontal	<input type="checkbox"/> Hand-Driven <input type="checkbox"/> Hydraulic Pt.
Drill Hole Diameter		Grouting (<input checked="" type="checkbox"/> as applicable)	
Size in., from 0 ft. to _____ ft.		Method: <input type="checkbox"/> Casing <input checked="" type="checkbox"/> Tremie <input type="checkbox"/> Packer <input type="checkbox"/> Halliburton <input type="checkbox"/> Under Pressure	
Size in., from _____ ft. to _____ ft.		Type: <input checked="" type="checkbox"/> Bentonite <input checked="" type="checkbox"/> Neat Cement <input type="checkbox"/> Other:	
Size in., from _____ ft. to _____ ft.		<input checked="" type="checkbox"/> Present From 105.75 ft. to 60.0 ft. From 60.0 ft. to 0.0 ft.	
Casing Record (<input checked="" type="checkbox"/> as applicable)		Permanent Pump Data (<input checked="" type="checkbox"/> as applicable)	
Primary: <input checked="" type="checkbox"/> Black Steel <input type="checkbox"/> Galvanized <input type="checkbox"/> Stainless		Pump Type: _____	
<input type="checkbox"/> PVC <input type="checkbox"/> Not Cased <input type="checkbox"/> Other: _____		Pump Diameter: _____ Outlet size: _____	
Secondary: <input type="checkbox"/> Telescope <input type="checkbox"/> Liner <input type="checkbox"/> Surface Casing		Motor HP: _____ Motor RPM: _____	
Wall Thickness _____ in.		Pump Capacity: _____ GPM Total Dynamic Head: _____ ft.	
Weight per foot _____ SDR _____		Pump Set at: _____ ft. Pump Disinfected: <input type="checkbox"/> Yes <input type="checkbox"/> No	
Size: 4" in., from 0 ft. to _____ ft.		Meter Installed: <input type="checkbox"/> Yes <input type="checkbox"/> No Meter Size & Rating: _____	
Size: _____ in., from _____ ft. to _____ ft.		Casing Vent: <input type="checkbox"/> Yes <input type="checkbox"/> No Sample Tap: <input type="checkbox"/> Yes <input type="checkbox"/> No	
Size: _____ in., from _____ ft. to _____ ft.		Air Line: <input type="checkbox"/> Yes <input type="checkbox"/> No Depth _____ ft. Diameter _____ in.	
Size: _____ in., from _____ ft. to _____ ft.		Chemigation check valve installed: <input type="checkbox"/> Yes <input type="checkbox"/> No	
Well Screen (if installed)		Test Pump Data (<input checked="" type="checkbox"/> as applicable)	
Type material Unknown		Date Tested: _____ Static water level: _____ ft. BLS	
Size: 4" in., from 90 (approx.) ft. to 105.75 ft.		Test Pump Rated: _____ GPM _____ HP	
Size: _____ in., from _____ ft. to _____ ft.		Total Continuous Hours Tested: _____	
Size: _____ in., from _____ ft. to _____ ft.		Water Level Stabilized: <input type="checkbox"/> Yes <input type="checkbox"/> No	
Size: _____ in., from _____ ft. to _____ ft.		Hours before Stabilization: _____ Sustained Yield: _____ GPM	
Gravel Pack from _____ ft. to _____ ft.		Total Drawdown: _____ ft. Specific Capacity: _____ GPM/ft.	
Gravel Pack from _____ ft. to _____ ft.		Pumping Water Level: _____ ft.	
Gravel Pack from _____ ft. to _____ ft.		Number of Minutes to Recover: _____	
Gravel Disinfected: <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No		Well Developed: <input type="checkbox"/> Yes <input type="checkbox"/> No Well Disinfected: <input type="checkbox"/> Yes <input type="checkbox"/> No	



Well Application or Permit Number: _____

Well Construction Description (continued)		Construction Techniques (<input checked="" type="checkbox"/> if done)	
Protection from Pollutants (<input checked="" type="checkbox"/> if done)		<input type="checkbox"/> Drill cuttings, materials removed <input type="checkbox"/> Well disinfected	
<input type="checkbox"/> Upgradient from pollutant sources		<input type="checkbox"/> Casing, liner pipe joints watertight <input type="checkbox"/> Sanitary seal	
<input type="checkbox"/> >10 ft. sewer line <input type="checkbox"/> > 50 ft. septic tank	<input type="checkbox"/> Grouted to 10 ft. (Individual) 20-50 ft. (Irrigation, Nonpublic)		
<input type="checkbox"/> >150 ft. seep pit <input type="checkbox"/> > 100 ft. septic drain field	<input type="checkbox"/> Concrete Curbed/Pad > 4 in. thick, extend > 2 ft., sloped		
<input type="checkbox"/> > 100 ft. animal enclosure <input type="checkbox"/> protected from runoff	<input type="checkbox"/> Gravel pack washed, disinfected		
<input type="checkbox"/> casing > 2 ft. above floodplain or highest known flood	<input type="checkbox"/> Casing material new or meets national standards		
<input type="checkbox"/> Water-bearing formations sealed if likely to be polluted	<input type="checkbox"/> Well screen – optimal development, low head loss & clog		
<input type="checkbox"/> Health Dept. notified <input type="checkbox"/> Health Dept. variance			

Driller's Well Log (lithologic stratigraphy)

Feet (BLS)		Type Material Encountered	Remarks	Indicate Water Bearing Zones
from	to			
0				

(If more space is required, use additional sheets. If available, submit any additional pump test data or geophysical logs.)

This well was drilled and constructed (or plugged/abandoned, if applicable) in accordance with the Georgia Water Well Standards Act, O.C.G.A. 12-5-120 et seq., Georgia Groundwater Use Act, O.C.G.A. 12-5-90 et seq. and 12-5-105 et seq., Georgia Safe Drinking Water Act, O.C.G.A. 12-5-170 et seq., and applicable Georgia Department of Natural Resources' rules, regulations and guidance documents.

I certify that the information on this form (Pages 1 and 2) is correct and true to the best of my knowledge.

Richard Mooney _____ Date: 02/21/2023
 Signature of Licensed Well Contractor's Name

Richard Mooney _____ License No. 651
 Printed Licensed Well Contractor's Name

APPENDIX B

Well Abandonment Logs



Well Abandonment Documentation Form

General Information

Project Name	McIntosh LF No. 3	Inspector	Taylor Goble	Well Id.	GWA-1A
Project Number	I054-117	Weather	Sunny/Clear	Sheet	<u>1</u> of <u>1</u>
Drilling Company	Southern Company (CFS)	Temperature	~45 degrees F	Started	2/7/2023
Client Name	Southern Company	Driller	Shawn Milam	Completed	2/7/2023

Well Construction Information

Well Depth (ft btoc)	38.14'	Screen Type	Sch. 40 PVC	Grout Type	Portland Cement
Well Casing Dia.	2" L.F. 28'	Slot Size (in.)	0.010" Machine slot	End Cap/Sump	4"
Casing Type	Sch. 40 PVC	Pack Type & Size	20/40 quartz sand	Protective	
Joint Type	Flush Threaded O-ring	Seal Type	Bentonite	Casing	Steel
Well Screen Dia.	2" L.F. 10'			Well Pad Size	4'x 4' x 4"

ft bgs = feet below ground surface, **ft btoc** = feet below top of casing, **ft³** = cubic feet

Abandonment Procedures and Volumes

Expected Grout Volume: 0.83 ft³ **Actual Grout Volume:** 0.83 ft³

1. Tagged depth to bottom, and depth to water with an electronic water level indicator.
2. Filled 2" PVC with Aqua Guard grout mixture utilizing tremie pipe method.
3. Removed protective casing, concrete well pad, and concrete bollards.
4. After adequate period of settling, location was topped off with additional grout as needed.
5. Concrete pad, bollards, and well casing material disposed of on site at approved location.

Notes:

No obstructions or bridging noted in the well during well tagging.
 Water level 15.13' btoc shortly before abandonment.



Well Abandonment Documentation Form

General Information

Project Name	McIntosh LF No. 3	Inspector	Taylor Goble	Well Id.	GWC-1
Project Number	I054-117	Weather	Sunny/Clear	Sheet	<u>1</u> of <u>1</u>
Drilling Company	Southern Company (CFS)	Temperature	~42 degrees F	Started	2/7/2023
Client Name	Southern Company	Driller	Shawn Milam	Completed	2/7/2023

Well Construction Information

Well Depth (ft btoc)	34.57'	Screen Type	Sch. 40 PVC	Grout Type	Portland Cement
Well Casing Dia.	2" L.F. 24'	Slot Size (in.)	0.010" Machine slot	End Cap/Sump	4"
Casing Type	Sch. 40 PVC	Pack Type & Size	20/40 quartz sand	Protective	
Joint Type	Flush Threaded O-ring	Seal Type	Bentonite	Casing	Steel
Well Screen Dia.	2" L.F. 10'			Well Pad Size	4' Diameter

ft bgs = feet below ground surface, **ft btoc** = feet below top of casing, **ft³** = cubic feet

Abandonment Procedures and Volumes

Expected Grout Volume: 0.75 ft³ **Actual Grout Volume:** 0.75 ft³

1. Tagged depth to bottom, and depth to water with an electronic water level indicator.
2. Filled 2" PVC with Aqua Guard grout mixture utilizing tremie pipe method.
3. Removed protective casing, concrete well pad, and concrete bollards.
4. After adequate period of settling, location was topped off with additional grout as needed.
5. Concrete pad, bollards, and well casing material disposed of on site at approved location.

Notes:

No obstructions or bridging noted in the well during well tagging.
 Water level 21.98' btoc shortly before abandonment.



Well Abandonment Documentation Form

General Information

Project Name	McIntosh LF No. 3	Inspector	Taylor Goble	Well Id.	GWC-5
Project Number	I054-117	Weather	Sunny/Clear	Sheet	<u>1</u> Of <u>1</u>
Drilling Company	Southern Company (CFS)	Temperature	~56 degrees F	Started	2/7/2023
Client Name	Southern Company	Driller	Shawn Milam	Completed	2/7/2023

Well Construction Information

Well Depth (ft btoc)	30.62'	Screen Type	Sch. 40 PVC	Grout Type	Portland Cement
Well Casing Dia.	2" L.F. 20'	Slot Size (in.)	0.010" Machine slot	End Cap/Sump	4"
Casing Type	Sch. 40 PVC	Pack Type & Size	20/40 quartz sand	Protective	
Joint Type	Flush Threaded O-ring	Seal Type	Bentonite	Casing	Steel
Well Screen Dia.	2" L.F. 10'			Well Pad Size	4' Diameter

ft bgs = feet below ground surface, **ft btoc** = feet below top of casing, **ft³** = cubic feet

Abandonment Procedures and Volumes

Expected Grout Volume: 0.67 ft³ **Actual Grout Volume:** 0.67 ft³

1. Tagged depth to bottom, and depth to water with an electronic water level indicator.
2. Filled 2" PVC with Aqua Guard grout mixture utilizing tremie pipe method.
3. Removed protective casing, concrete well pad, and concrete bollards.
4. After adequate period of settling, location was topped off with additional grout as needed.
5. Concrete pad, bollards, and well casing material disposed of on site at approved location.

Notes:

No obstructions or bridging noted in the well during well tagging.
 Water level 23.51' btoc shortly before abandonment.



Well Abandonment Documentation Form

General Information

Project Name	McIntosh LF No. 3	Inspector	Taylor Goble	Well Id.	GWC-6
Project Number	I054-117	Weather	Sunny/Clear	Sheet	<u>1</u> of <u>1</u>
Drilling Company	Southern Company (CFS)	Temperature	~44 degrees F	Started	2/7/2023
Client Name	Southern Company	Driller	Shawn Milam	Completed	2/7/2023

Well Construction Information

Well Depth (ft btoc)	32.65'	Screen Type	Sch. 40 PVC	Grout Type	Portland Cement
Well Casing Dia.	2" L.F. 22'	Slot Size (in.)	0.010" Machine slot	End Cap/Sump	4"
Casing Type	Sch. 40 PVC	Pack Type & Size	20/40 quartz sand	Protective	
Joint Type	Flush Threaded O-ring	Seal Type	Bentonite	Casing	Steel
Well Screen Dia.	2" L.F. 10'			Well Pad Size	4' Diameter

ft bgs = feet below ground surface, **ft btoc** = feet below top of casing, **ft³** = cubic feet

Abandonment Procedures and Volumes

Expected Grout Volume: 0.71 ft³ **Actual Grout Volume:** 0.71 ft³

1. Tagged depth to bottom, and depth to water with an electronic water level indicator.
2. Filled 2" PVC with Aqua Guard grout mixture utilizing tremie pipe method.
3. Removed protective casing, concrete well pad, and concrete bollards.
4. After adequate period of settling, location was topped off with additional grout as needed.
5. Concrete pad, bollards, and well casing material disposed of on site at approved location.

Notes:

No obstructions or bridging noted in the well during well tagging.
 Water level 23.49' btoc shortly before abandonment.

APPENDIX C

Hunt Club Well Abandonment Log



Well Abandonment Documentation Form

General Information

Project Name	<u>McIntosh LF No. 3</u>	Inspector	<u>Taylor Goble</u>	Well Id.	<u>Hunt Club</u>
Project Number	<u>I054-117</u>	Weather	<u>Sunny/Clear</u>	Sheet	<u>1</u> of <u>1</u>
Drilling Company	<u>Cascade Drilling, L.P.</u>	Temperature	<u>60 degrees F</u>	Started	<u>2/20/2023</u>
Client Name	<u>Southern Company</u>	Driller	<u>Richard Mooney</u>	Completed	<u>2/20/2023</u>

Well Construction Information

Well Depth (ft btoc)	<u>105.75'</u>	Screen Type	<u>Unknown</u>	Grout Type	<u>Unknown</u>
Well Casing Dia.	<u>4" L.F. 90'</u>	Slot Size (in.)	<u>Unknown</u>	End Cap/Sump	<u>4"</u>
Casing Type	<u>Steel</u>	Pack Type & Size	<u>Unknown</u>	Protective	
Joint Type	<u>Unknown</u>	Seal Type	<u>Unknown</u>	Casing	<u>Steel</u>
Well Screen Dia.	<u>4" L.F. 15.75</u>			Well Pad Size	<u>None</u>

ft bgs = feet below ground surface, ft btoc = feet below top of casing, ft³ = cubic feet

Abandonment Procedures and Volumes

Expected Grout Volume: 9.23 ft³ Actual Grout Volume: 9.23 ft³

1. Removed existing steel pump from well.
2. Tagged depth to bottom, and depth to water with an electronic water level indicator.
3. Filled 4" casing with Aqua Guard grout mixture utilizing tremie pipe method up to 60 ft bgs.
4. Filled remainder of 4" casing with neat cement grout mixture utilizing tremie pipe method.
5. Removed steel casing and well housing materials, down to three feet below ground surface.
6. After adequate period of settling, location was topped off with additional grout as needed.
7. Well casing material disposed of on site at approved location.

Notes:

No obstructions or bridging noted in the well during well tagging.
 Water level 73.50 ft btoc measured before abandonment.

APPENDIX B

**LABORATORY ANALYTICAL AND FIELD SAMPLING
REPORTS**

APPENDIX B

*Laboratory Analytical and Field Sampling Reports
August 2022 Monitoring Event*

ANALYTICAL REPORT

Eurofins Savannah
5102 LaRoche Avenue
Savannah, GA 31404
Tel: (912)354-7858

Laboratory Job ID: 680-220481-1

Client Project/Site: Plant McIntosh Landfill #3
Revision: 1

For:
Southern Company
241 Ralph McGill Blvd SE
B10185
Atlanta, Georgia 30308

Attn: Kristen N Jurinko



Authorized for release by:
10/28/2022 3:15:18 PM

David Fuller, Project Manager
(770)344-8986
David.Fuller@et.eurofinsus.com

LINKS

Review your project
results through



Have a Question?



Visit us at:

www.eurofinsus.com/Env

The test results in this report meet all 2003 NELAC, 2009 TNI, and 2016 TNI requirements for accredited parameters, exceptions are noted in this report. This report may not be reproduced except in full, and with written approval from the laboratory. For questions please contact the Project Manager at the e-mail address or telephone number listed on this page.

This report has been electronically signed and authorized by the signatory. Electronic signature is intended to be the legally binding equivalent of a traditionally handwritten signature.

Results relate only to the items tested and the sample(s) as received by the laboratory.

Definitions/Glossary

Client: Southern Company
Project/Site: Plant McIntosh Landfill #3

Job ID: 680-220481-1

Qualifiers

HPLC/IC

Qualifier	Qualifier Description
4	MS, MSD: The analyte present in the original sample is greater than 4 times the matrix spike concentration; therefore, control limits are not applicable.
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

Metals

Qualifier	Qualifier Description
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

General Chemistry

Qualifier	Qualifier Description
F3	Duplicate RPD exceeds the control limit

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
α	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CFL	Contains Free Liquid
CFU	Colony Forming Unit
CNF	Contains No Free Liquid
DER	Duplicate Error Ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL	Detection Limit (DoD/DOE)
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision Level Concentration (Radiochemistry)
EDL	Estimated Detection Limit (Dioxin)
LOD	Limit of Detection (DoD/DOE)
LOQ	Limit of Quantitation (DoD/DOE)
MCL	EPA recommended "Maximum Contaminant Level"
MDA	Minimum Detectable Activity (Radiochemistry)
MDC	Minimum Detectable Concentration (Radiochemistry)
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
MPN	Most Probable Number
MQL	Method Quantitation Limit
NC	Not Calculated
ND	Not Detected at the reporting limit (or MDL or EDL if shown)
NEG	Negative / Absent
POS	Positive / Present
PQL	Practical Quantitation Limit
PRES	Presumptive
QC	Quality Control
RER	Relative Error Ratio (Radiochemistry)
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)
TNTC	Too Numerous To Count

Sample Summary

Client: Southern Company
Project/Site: Plant McIntosh Landfill #3

Job ID: 680-220481-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
680-220481-1	GWA-7A	Water	08/30/22 11:20	09/01/22 11:48
680-220481-2	GWA-1B	Water	08/30/22 12:40	09/01/22 11:48
680-220481-3	GWA-1A	Water	08/30/22 13:30	09/01/22 11:48
680-220481-4	GWA-2B	Water	08/30/22 14:50	09/01/22 11:48
680-220481-5	GWC-1A	Water	08/30/22 16:00	09/01/22 11:48
680-220481-6	GWC-1	Water	08/31/22 09:55	09/01/22 11:48
680-220481-7	GWC-6	Water	08/31/22 11:35	09/01/22 11:48
680-220481-8	FD-06	Water	08/31/22 00:00	09/01/22 11:48
680-220481-9	FB-10	Water	08/31/22 09:45	09/01/22 11:48
680-220481-10	EB-11	Water	08/30/22 16:20	09/01/22 11:48
680-220481-11	FD-05	Water	08/30/22 00:00	09/01/22 11:48
680-220481-12	GWA-5	Water	08/30/22 10:33	09/01/22 11:48
680-220481-13	GWA-4	Water	08/30/22 11:35	09/01/22 11:48
680-220481-14	FB-09	Water	08/30/22 13:25	09/01/22 11:48
680-220481-15	GWA-3A	Water	08/30/22 13:47	09/01/22 11:48
680-220481-16	GWC-2	Water	08/30/22 14:53	09/01/22 11:48
680-220481-17	GWC-4A	Water	08/30/22 15:52	09/01/22 11:48
680-220481-18	EB-12	Water	08/31/22 11:35	09/01/22 11:48
680-220481-19	GWC-5A	Water	08/31/22 11:40	09/01/22 11:48
680-220481-20	GWC-6A	Water	08/31/22 12:35	09/01/22 11:48
680-220481-21	GWC-5	Water	09/01/22 10:00	09/01/22 11:48

Case Narrative

Client: Southern Company
Project/Site: Plant McIntosh Landfill #3

Job ID: 680-220481-1

Job ID: 680-220481-1

Laboratory: Eurofins Savannah

Narrative

**Job Narrative
680-220481-1**

Revision

The report being provided is a revision of the original report sent on 10/21/2022. The report (revision 1) is being revised in order to add missing batch QC for metals Prep Batch 413001 and associated Analytical Batches.

Receipt

The samples were received on 9/1/2022 11:48 AM. Unless otherwise noted below, the samples arrived in good condition, and where required, properly preserved and on ice. The temperatures of the 2 coolers at receipt time were 2.2° C and 4.0° C.

Receipt Exceptions

HPLC/IC

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

Metals

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

General Chemistry

Method SM 2540C: The sample duplicate precision for the following sample associated with analytical batch 680-738697 was outside control limits: (680-220453-A-1 DU). The associated Laboratory Control Sample / Laboratory Control Sample Duplicate (LCS/LCSD) precision met acceptance criteria.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.



Client Sample Results

Client: Southern Company
Project/Site: Plant McIntosh Landfill #3

Job ID: 680-220481-1

Client Sample ID: GWA-7A

Lab Sample ID: 680-220481-1

Date Collected: 08/30/22 11:20

Matrix: Water

Date Received: 09/01/22 11:48

Method: MCAWW 300.0-1993 R2.1 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	7.5		1.0	0.20	mg/L			09/10/22 13:15	1
Fluoride	<0.040		0.10	0.040	mg/L			09/10/22 13:15	1
Sulfate	73		1.0	0.40	mg/L			09/10/22 13:15	1

Method: SW846 6020B - Metals (ICP/MS) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Barium	0.047		0.010	0.00089	mg/L		09/02/22 08:05	09/10/22 04:23	1
Beryllium	0.00070	J	0.0025	0.00020	mg/L		09/02/22 08:05	09/10/22 04:23	1
Calcium	14		0.50	0.14	mg/L		09/02/22 08:05	09/10/22 04:23	1
Cobalt	0.0024	J	0.0025	0.00022	mg/L		09/02/22 08:05	09/10/22 04:23	1

Method: SW846 EPA 6020B - Metals (ICP/MS) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Boron	1.2		0.080	0.060	mg/L		09/23/22 11:10	10/09/22 10:10	1
Chromium	<0.0015		0.0020	0.0015	mg/L		10/19/22 12:05	10/20/22 14:27	1
Copper	0.0028		0.0020	0.0011	mg/L		09/23/22 11:10	10/08/22 17:05	1
Lead	<0.00017		0.0010	0.00017	mg/L		09/23/22 11:10	10/08/22 17:05	1
Vanadium	0.0016		0.0010	0.00078	mg/L		09/23/22 11:10	10/08/22 17:05	1
Zinc	0.0089		0.0050	0.0029	mg/L		09/23/22 11:10	10/08/22 17:05	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids (SM 2540C-2011)	160		10	10	mg/L			09/02/22 12:02	1

Method: EPA Field Sampling - Field Sampling

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Field pH	5.00				SU			08/30/22 11:20	1

Client Sample ID: GWA-1B

Lab Sample ID: 680-220481-2

Date Collected: 08/30/22 12:40

Matrix: Water

Date Received: 09/01/22 11:48

Method: MCAWW 300.0-1993 R2.1 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	7.7		1.0	0.20	mg/L			09/10/22 13:28	1
Fluoride	0.51		0.10	0.040	mg/L			09/10/22 13:28	1
Sulfate	1.6		1.0	0.40	mg/L			09/10/22 13:28	1

Method: SW846 6020B - Metals (ICP/MS) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Barium	0.022		0.010	0.00089	mg/L		09/02/22 08:05	09/10/22 04:34	1
Beryllium	<0.00020		0.0025	0.00020	mg/L		09/02/22 08:05	09/10/22 04:34	1
Calcium	5.2		0.50	0.14	mg/L		09/02/22 08:05	09/10/22 04:34	1
Cobalt	0.00029	J	0.0025	0.00022	mg/L		09/02/22 08:05	09/10/22 04:34	1

Method: SW846 EPA 6020B - Metals (ICP/MS) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Boron	0.12		0.080	0.060	mg/L		09/23/22 11:10	10/09/22 10:13	1
Chromium	<0.0015		0.0020	0.0015	mg/L		10/19/22 12:05	10/20/22 14:31	1
Copper	<0.0011		0.0020	0.0011	mg/L		09/23/22 11:10	10/08/22 17:08	1
Lead	<0.00017		0.0010	0.00017	mg/L		09/23/22 11:10	10/08/22 17:08	1

Eurofins Savannah

Client Sample Results

Client: Southern Company
Project/Site: Plant McIntosh Landfill #3

Job ID: 680-220481-1

Client Sample ID: GWA-1B

Lab Sample ID: 680-220481-2

Date Collected: 08/30/22 12:40

Matrix: Water

Date Received: 09/01/22 11:48

Method: SW846 EPA 6020B - Metals (ICP/MS) - Total Recoverable (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Vanadium	0.0019		0.0010	0.00078	mg/L		09/23/22 11:10	10/08/22 17:08	1
Zinc	0.0030	J	0.0050	0.0029	mg/L		09/23/22 11:10	10/08/22 17:08	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids (SM 2540C-2011)	79		10	10	mg/L			09/02/22 12:02	1

Method: EPA Field Sampling - Field Sampling

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Field pH	5.86				SU			08/30/22 12:40	1

Client Sample ID: GWA-1A

Lab Sample ID: 680-220481-3

Date Collected: 08/30/22 13:30

Matrix: Water

Date Received: 09/01/22 11:48

Method: MCAWW 300.0-1993 R2.1 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	8.5		1.0	0.20	mg/L			09/10/22 13:41	1
Fluoride	<0.040		0.10	0.040	mg/L			09/10/22 13:41	1
Sulfate	<0.40		1.0	0.40	mg/L			09/10/22 13:41	1

Method: SW846 6020B - Metals (ICP/MS) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Barium	0.023		0.010	0.00089	mg/L		09/02/22 08:05	09/10/22 04:38	1
Beryllium	0.00035	J	0.0025	0.00020	mg/L		09/02/22 08:05	09/10/22 04:38	1
Calcium	1.8		0.50	0.14	mg/L		09/02/22 08:05	09/10/22 04:38	1
Cobalt	0.00031	J	0.0025	0.00022	mg/L		09/02/22 08:05	09/10/22 04:38	1

Method: SW846 EPA 6020B - Metals (ICP/MS) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Boron	<0.060		0.080	0.060	mg/L		09/23/22 11:10	10/09/22 10:16	1
Chromium	0.0047		0.0020	0.0015	mg/L		10/19/22 12:05	10/20/22 14:35	1
Copper	<0.0011		0.0020	0.0011	mg/L		09/23/22 11:10	10/08/22 17:12	1
Lead	<0.00017		0.0010	0.00017	mg/L		09/23/22 11:10	10/08/22 17:12	1
Vanadium	0.0019		0.0010	0.00078	mg/L		09/23/22 11:10	10/08/22 17:12	1
Zinc	<0.0029		0.0050	0.0029	mg/L		09/23/22 11:10	10/08/22 17:12	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids (SM 2540C-2011)	55		10	10	mg/L			09/02/22 12:02	1

Method: EPA Field Sampling - Field Sampling

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Field pH	5.01				SU			08/30/22 13:30	1

Eurofins Savannah

Client Sample Results

Client: Southern Company
Project/Site: Plant McIntosh Landfill #3

Job ID: 680-220481-1

Client Sample ID: GWA-2B

Lab Sample ID: 680-220481-4

Date Collected: 08/30/22 14:50

Matrix: Water

Date Received: 09/01/22 11:48

Method: MCAWW 300.0-1993 R2.1 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	5.9		1.0	0.20	mg/L			09/10/22 13:53	1
Fluoride	<0.040		0.10	0.040	mg/L			09/10/22 13:53	1
Sulfate	74		1.0	0.40	mg/L			09/10/22 13:53	1

Method: SW846 6020B - Metals (ICP/MS) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Barium	0.030		0.010	0.00089	mg/L		09/02/22 08:05	09/10/22 04:42	1
Beryllium	0.0019	J	0.0025	0.00020	mg/L		09/02/22 08:05	09/10/22 04:42	1
Calcium	15		0.50	0.14	mg/L		09/02/22 08:05	09/10/22 04:42	1
Cobalt	0.0040		0.0025	0.00022	mg/L		09/02/22 08:05	09/10/22 04:42	1

Method: SW846 EPA 6020B - Metals (ICP/MS) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Boron	0.98		0.080	0.060	mg/L		09/23/22 11:10	10/09/22 10:20	1
Chromium	0.0028		0.0020	0.0015	mg/L		10/19/22 12:05	10/20/22 14:38	1
Copper	0.0013	J	0.0020	0.0011	mg/L		09/23/22 11:10	10/08/22 17:15	1
Lead	<0.00017		0.0010	0.00017	mg/L		09/23/22 11:10	10/08/22 17:15	1
Vanadium	0.0016		0.0010	0.00078	mg/L		09/23/22 11:10	10/08/22 17:15	1
Zinc	0.014		0.0050	0.0029	mg/L		09/23/22 11:10	10/08/22 17:15	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids (SM 2540C-2011)	150		10	10	mg/L			09/02/22 12:02	1

Method: EPA Field Sampling - Field Sampling

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Field pH	4.90				SU			08/30/22 14:50	1

Client Sample ID: GWC-1A

Lab Sample ID: 680-220481-5

Date Collected: 08/30/22 16:00

Matrix: Water

Date Received: 09/01/22 11:48

Method: MCAWW 300.0-1993 R2.1 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	14		1.0	0.20	mg/L			09/10/22 14:06	1
Fluoride	0.071	J	0.10	0.040	mg/L			09/10/22 14:06	1
Sulfate	<0.40		1.0	0.40	mg/L			09/10/22 14:06	1

Method: SW846 6020B - Metals (ICP/MS) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Barium	0.24		0.010	0.00089	mg/L		09/02/22 08:05	09/10/22 04:45	1
Beryllium	0.00042	J	0.0025	0.00020	mg/L		09/02/22 08:05	09/10/22 04:45	1
Calcium	2.3		0.50	0.14	mg/L		09/02/22 08:05	09/10/22 04:45	1
Cobalt	0.0044		0.0025	0.00022	mg/L		09/02/22 08:05	09/10/22 04:45	1

Method: SW846 EPA 6020B - Metals (ICP/MS) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Boron	0.099		0.080	0.060	mg/L		09/23/22 11:10	10/09/22 10:30	1
Chromium	<0.0015		0.0020	0.0015	mg/L		10/19/22 12:05	10/20/22 14:42	1
Copper	0.0019	J	0.0020	0.0011	mg/L		09/23/22 11:10	10/09/22 10:30	1
Lead	<0.00017		0.0010	0.00017	mg/L		09/23/22 11:10	10/09/22 10:30	1

Eurofins Savannah

Client Sample Results

Client: Southern Company
Project/Site: Plant McIntosh Landfill #3

Job ID: 680-220481-1

Client Sample ID: GWC-1A

Lab Sample ID: 680-220481-5

Date Collected: 08/30/22 16:00

Matrix: Water

Date Received: 09/01/22 11:48

Method: SW846 EPA 6020B - Metals (ICP/MS) - Total Recoverable (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Vanadium	0.00087	J	0.0010	0.00078	mg/L		09/23/22 11:10	10/09/22 10:30	1
Zinc	0.020		0.0050	0.0029	mg/L		09/23/22 11:10	10/09/22 10:30	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids (SM 2540C-2011)	65		10	10	mg/L			09/02/22 12:02	1

Method: EPA Field Sampling - Field Sampling

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Field pH	4.43				SU			08/30/22 16:00	1

Client Sample ID: GWC-1

Lab Sample ID: 680-220481-6

Date Collected: 08/31/22 09:55

Matrix: Water

Date Received: 09/01/22 11:48

Method: MCAWW 300.0-1993 R2.1 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	12		1.0	0.20	mg/L			09/10/22 14:19	1
Fluoride	<0.040		0.10	0.040	mg/L			09/10/22 14:19	1
Sulfate	<0.40		1.0	0.40	mg/L			09/10/22 14:19	1

Method: SW846 6020B - Metals (ICP/MS) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Barium	0.030		0.010	0.00089	mg/L		09/02/22 12:09	09/06/22 21:29	1
Beryllium	<0.00020		0.0025	0.00020	mg/L		09/02/22 12:09	09/06/22 21:29	1
Calcium	0.31	J	0.50	0.14	mg/L		09/02/22 12:09	09/06/22 21:29	1
Cobalt	0.00036	J	0.0025	0.00022	mg/L		09/02/22 12:09	09/06/22 21:29	1

Method: SW846 EPA 6020B - Metals (ICP/MS) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Boron	<0.060		0.080	0.060	mg/L		09/23/22 11:10	10/09/22 10:33	1
Chromium	<0.0015		0.0020	0.0015	mg/L		10/19/22 12:05	10/20/22 14:46	1
Copper	<0.0011		0.0020	0.0011	mg/L		09/23/22 11:10	10/09/22 10:33	1
Lead	<0.00017		0.0010	0.00017	mg/L		09/23/22 11:10	10/09/22 10:33	1
Vanadium	0.0011		0.0010	0.00078	mg/L		09/23/22 11:10	10/09/22 10:33	1
Zinc	<0.0029		0.0050	0.0029	mg/L		09/23/22 11:10	10/09/22 10:33	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids (SM 2540C-2011)	37		10	10	mg/L			09/02/22 12:02	1

Method: EPA Field Sampling - Field Sampling

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Field pH	4.69				SU			08/31/22 09:55	1

Eurofins Savannah

Client Sample Results

Client: Southern Company
Project/Site: Plant McIntosh Landfill #3

Job ID: 680-220481-1

Client Sample ID: GWC-6

Lab Sample ID: 680-220481-7

Date Collected: 08/31/22 11:35

Matrix: Water

Date Received: 09/01/22 11:48

Method: MCAWW 300.0-1993 R2.1 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	7.3		1.0	0.20	mg/L			09/10/22 14:31	1
Fluoride	<0.040		0.10	0.040	mg/L			09/10/22 14:31	1
Sulfate	0.41	J	1.0	0.40	mg/L			09/10/22 14:31	1

Method: SW846 6020B - Metals (ICP/MS) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Barium	0.043		0.010	0.00089	mg/L		09/02/22 08:05	09/10/22 04:49	1
Beryllium	0.00049	J	0.0025	0.00020	mg/L		09/02/22 08:05	09/10/22 04:49	1
Calcium	1.5		0.50	0.14	mg/L		09/02/22 08:05	09/10/22 04:49	1
Cobalt	0.00058	J	0.0025	0.00022	mg/L		09/02/22 08:05	09/10/22 04:49	1

Method: SW846 EPA 6020B - Metals (ICP/MS) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Boron	<0.060		0.080	0.060	mg/L		09/23/22 11:10	10/09/22 10:36	1
Chromium	<0.0015		0.0020	0.0015	mg/L		10/19/22 12:05	10/20/22 14:56	1
Copper	<0.0011		0.0020	0.0011	mg/L		09/23/22 11:10	10/09/22 10:36	1
Lead	<0.00017		0.0010	0.00017	mg/L		09/23/22 11:10	10/09/22 10:36	1
Vanadium	0.0013		0.0010	0.00078	mg/L		09/23/22 11:10	10/09/22 10:36	1
Zinc	0.0073		0.0050	0.0029	mg/L		09/23/22 11:10	10/09/22 10:36	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids (SM 2540C-2011)	61		10	10	mg/L			09/02/22 12:02	1

Method: EPA Field Sampling - Field Sampling

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Field pH	4.85				SU			08/31/22 11:35	1

Client Sample ID: FD-06

Lab Sample ID: 680-220481-8

Date Collected: 08/31/22 00:00

Matrix: Water

Date Received: 09/01/22 11:48

Method: MCAWW 300.0-1993 R2.1 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	9.5		1.0	0.20	mg/L			09/10/22 14:44	1
Fluoride	<0.040		0.10	0.040	mg/L			09/10/22 14:44	1
Sulfate	3.4		1.0	0.40	mg/L			09/10/22 14:44	1

Method: SW846 6020B - Metals (ICP/MS) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Barium	0.075		0.010	0.00089	mg/L		09/02/22 08:05	09/10/22 05:00	1
Beryllium	0.00020	J	0.0025	0.00020	mg/L		09/02/22 08:05	09/10/22 05:00	1
Calcium	2.9		0.50	0.14	mg/L		09/02/22 08:05	09/10/22 05:00	1
Cobalt	0.0011	J	0.0025	0.00022	mg/L		09/02/22 08:05	09/10/22 05:00	1

Method: SW846 EPA 6020B - Metals (ICP/MS) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Boron	<0.060		0.080	0.060	mg/L		09/23/22 11:10	10/09/22 10:40	1
Chromium	0.0015	J	0.0020	0.0015	mg/L		10/19/22 12:05	10/20/22 15:00	1
Copper	<0.0011		0.0020	0.0011	mg/L		09/23/22 11:10	10/09/22 10:40	1
Lead	<0.00017		0.0010	0.00017	mg/L		09/23/22 11:10	10/09/22 10:40	1

Eurofins Savannah

Client Sample Results

Client: Southern Company
Project/Site: Plant McIntosh Landfill #3

Job ID: 680-220481-1

Client Sample ID: FD-06
Date Collected: 08/31/22 00:00
Date Received: 09/01/22 11:48

Lab Sample ID: 680-220481-8
Matrix: Water

Method: SW846 EPA 6020B - Metals (ICP/MS) - Total Recoverable (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Vanadium	0.0013		0.0010	0.00078	mg/L		09/23/22 11:10	10/09/22 10:40	1
Zinc	0.0074		0.0050	0.0029	mg/L		09/23/22 11:10	10/09/22 10:40	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids (SM 2540C-2011)	70		10	10	mg/L			09/02/22 12:02	1

Client Sample ID: FB-10
Date Collected: 08/31/22 09:45
Date Received: 09/01/22 11:48

Lab Sample ID: 680-220481-9
Matrix: Water

Method: MCAWW 300.0-1993 R2.1 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	<0.20		1.0	0.20	mg/L			09/10/22 14:56	1
Fluoride	<0.040		0.10	0.040	mg/L			09/10/22 14:56	1
Sulfate	<0.40		1.0	0.40	mg/L			09/10/22 14:56	1

Method: SW846 6020B - Metals (ICP/MS) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Barium	<0.00089		0.010	0.00089	mg/L		09/02/22 08:05	09/10/22 05:04	1
Beryllium	<0.00020		0.0025	0.00020	mg/L		09/02/22 08:05	09/10/22 05:04	1
Calcium	<0.14		0.50	0.14	mg/L		09/02/22 08:05	09/10/22 05:04	1
Cobalt	<0.00022		0.0025	0.00022	mg/L		09/02/22 08:05	09/10/22 05:04	1

Method: SW846 EPA 6020B - Metals (ICP/MS) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Boron	<0.060		0.080	0.060	mg/L		09/23/22 11:10	10/09/22 10:43	1
Chromium	<0.0015		0.0020	0.0015	mg/L		10/19/22 12:05	10/20/22 15:04	1
Copper	<0.0011		0.0020	0.0011	mg/L		09/23/22 11:10	10/09/22 10:43	1
Lead	<0.00017		0.0010	0.00017	mg/L		09/23/22 11:10	10/09/22 10:43	1
Vanadium	0.0014		0.0010	0.00078	mg/L		09/23/22 11:10	10/09/22 10:43	1
Zinc	0.0056		0.0050	0.0029	mg/L		09/23/22 11:10	10/09/22 10:43	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids (SM 2540C-2011)	<10		10	10	mg/L			09/02/22 12:02	1

Client Sample ID: EB-11
Date Collected: 08/30/22 16:20
Date Received: 09/01/22 11:48

Lab Sample ID: 680-220481-10
Matrix: Water

Method: MCAWW 300.0-1993 R2.1 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	<0.20		1.0	0.20	mg/L			09/10/22 17:13	1
Fluoride	<0.040		0.10	0.040	mg/L			09/10/22 17:13	1
Sulfate	<0.40		1.0	0.40	mg/L			09/10/22 17:13	1

Method: SW846 6020B - Metals (ICP/MS) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Barium	<0.00089		0.010	0.00089	mg/L		09/02/22 08:05	09/10/22 05:08	1

Eurofins Savannah

Client Sample Results

Client: Southern Company
Project/Site: Plant McIntosh Landfill #3

Job ID: 680-220481-1

Client Sample ID: EB-11
Date Collected: 08/30/22 16:20
Date Received: 09/01/22 11:48

Lab Sample ID: 680-220481-10
Matrix: Water

Method: SW846 6020B - Metals (ICP/MS) - Total Recoverable (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Beryllium	<0.00020		0.0025	0.00020	mg/L		09/02/22 08:05	09/10/22 05:08	1
Calcium	<0.14		0.50	0.14	mg/L		09/02/22 08:05	09/10/22 05:08	1
Cobalt	<0.00022		0.0025	0.00022	mg/L		09/02/22 08:05	09/10/22 05:08	1

Method: SW846 EPA 6020B - Metals (ICP/MS) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Boron	<0.060		0.080	0.060	mg/L		09/23/22 11:10	10/09/22 10:47	1
Chromium	<0.0015		0.0020	0.0015	mg/L		10/19/22 12:05	10/20/22 15:07	1
Copper	<0.0011		0.0020	0.0011	mg/L		09/23/22 11:10	10/09/22 10:47	1
Lead	<0.00017		0.0010	0.00017	mg/L		09/23/22 11:10	10/09/22 10:47	1
Vanadium	0.0014		0.0010	0.00078	mg/L		09/23/22 11:10	10/09/22 10:47	1
Zinc	0.0055		0.0050	0.0029	mg/L		09/23/22 11:10	10/09/22 10:47	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids (SM 2540C-2011)	<10		10	10	mg/L			09/02/22 12:02	1

Client Sample ID: FD-05
Date Collected: 08/30/22 00:00
Date Received: 09/01/22 11:48

Lab Sample ID: 680-220481-11
Matrix: Water

Method: MCAWW 300.0-1993 R2.1 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	7.7		1.0	0.20	mg/L			09/10/22 17:26	1
Fluoride	0.12		0.10	0.040	mg/L			09/10/22 17:26	1
Sulfate	1.3		1.0	0.40	mg/L			09/10/22 17:26	1

Method: SW846 6020B - Metals (ICP/MS) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Barium	0.022		0.010	0.00089	mg/L		09/02/22 08:05	09/10/22 05:11	1
Beryllium	<0.00020		0.0025	0.00020	mg/L		09/02/22 08:05	09/10/22 05:11	1
Calcium	5.5		0.50	0.14	mg/L		09/02/22 08:05	09/10/22 05:11	1
Cobalt	0.00024	J	0.0025	0.00022	mg/L		09/02/22 08:05	09/10/22 05:11	1

Method: SW846 EPA 6020B - Metals (ICP/MS) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Boron	<0.060		0.080	0.060	mg/L		09/23/22 11:10	10/09/22 10:50	1
Chromium	<0.0015		0.0020	0.0015	mg/L		10/19/22 12:05	10/20/22 15:11	1
Copper	<0.0011		0.0020	0.0011	mg/L		09/23/22 11:10	10/09/22 10:50	1
Lead	<0.00017		0.0010	0.00017	mg/L		09/23/22 11:10	10/09/22 10:50	1
Vanadium	0.0011		0.0010	0.00078	mg/L		09/23/22 11:10	10/09/22 10:50	1
Zinc	0.0046	J	0.0050	0.0029	mg/L		09/23/22 11:10	10/09/22 10:50	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids (SM 2540C-2011)	80		10	10	mg/L			09/02/22 12:02	1

Eurofins Savannah

Client Sample Results

Client: Southern Company
Project/Site: Plant McIntosh Landfill #3

Job ID: 680-220481-1

Client Sample ID: GWA-5

Lab Sample ID: 680-220481-12

Date Collected: 08/30/22 10:33

Matrix: Water

Date Received: 09/01/22 11:48

Method: MCAWW 300.0-1993 R2.1 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	15		1.0	0.20	mg/L			09/10/22 17:39	1
Fluoride	0.11		0.10	0.040	mg/L			09/10/22 17:39	1
Sulfate	13		1.0	0.40	mg/L			09/10/22 17:39	1

Method: SW846 6020B - Metals (ICP/MS) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Barium	0.13		0.010	0.00089	mg/L		09/02/22 08:05	09/10/22 05:15	1
Beryllium	<0.00020		0.0025	0.00020	mg/L		09/02/22 08:05	09/10/22 05:15	1
Calcium	3.4		0.50	0.14	mg/L		09/02/22 08:05	09/10/22 05:15	1
Cobalt	0.0016	J	0.0025	0.00022	mg/L		09/02/22 08:05	09/10/22 05:15	1

Method: SW846 EPA 6020B - Metals (ICP/MS) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Boron	<0.060		0.080	0.060	mg/L		09/23/22 11:10	10/09/22 10:53	1
Chromium	<0.0015		0.0020	0.0015	mg/L		10/19/22 12:05	10/20/22 15:15	1
Copper	0.0011	J	0.0020	0.0011	mg/L		09/23/22 11:10	10/09/22 10:53	1
Lead	0.00064	J	0.0010	0.00017	mg/L		09/23/22 11:10	10/09/22 10:53	1
Vanadium	0.0028		0.0010	0.00078	mg/L		09/23/22 11:10	10/09/22 10:53	1
Zinc	0.013		0.0050	0.0029	mg/L		09/23/22 11:10	10/09/22 10:53	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids (SM 2540C-2011)	64		10	10	mg/L			09/02/22 12:02	1

Method: EPA Field Sampling - Field Sampling

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Field pH	4.51				SU			08/30/22 10:33	1

Client Sample ID: GWA-4

Lab Sample ID: 680-220481-13

Date Collected: 08/30/22 11:35

Matrix: Water

Date Received: 09/01/22 11:48

Method: MCAWW 300.0-1993 R2.1 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	4.7		1.0	0.20	mg/L			09/10/22 17:51	1
Fluoride	0.047	J	0.10	0.040	mg/L			09/10/22 17:51	1
Sulfate	3.5		1.0	0.40	mg/L			09/10/22 17:51	1

Method: SW846 6020B - Metals (ICP/MS) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Barium	0.046		0.010	0.00089	mg/L		09/02/22 08:05	09/10/22 05:19	1
Beryllium	0.00028	J	0.0025	0.00020	mg/L		09/02/22 08:05	09/10/22 05:19	1
Calcium	1.2		0.50	0.14	mg/L		09/02/22 08:05	09/10/22 05:19	1
Cobalt	0.00097	J	0.0025	0.00022	mg/L		09/02/22 08:05	09/10/22 05:19	1

Method: SW846 EPA 6020B - Metals (ICP/MS) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Boron	<0.060		0.080	0.060	mg/L		09/23/22 14:25	09/30/22 09:45	1
Chromium	<0.0015		0.0020	0.0015	mg/L		09/23/22 14:25	09/28/22 19:19	1
Copper	0.0012	J	0.0020	0.0011	mg/L		09/23/22 14:25	09/28/22 19:19	1
Lead	<0.00017		0.0010	0.00017	mg/L		09/23/22 14:25	09/28/22 19:19	1

Eurofins Savannah

Client Sample Results

Client: Southern Company
Project/Site: Plant McIntosh Landfill #3

Job ID: 680-220481-1

Client Sample ID: GWA-4

Date Collected: 08/30/22 11:35

Date Received: 09/01/22 11:48

Lab Sample ID: 680-220481-13

Matrix: Water

Method: SW846 EPA 6020B - Metals (ICP/MS) - Total Recoverable (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Vanadium	<0.00078		0.0010	0.00078	mg/L		09/23/22 14:25	09/28/22 19:19	1
Zinc	0.010		0.0050	0.0029	mg/L		10/08/22 10:24	10/11/22 23:06	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids (SM 2540C-2011)	40		10	10	mg/L			09/02/22 12:02	1

Method: EPA Field Sampling - Field Sampling

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Field pH	4.72				SU			08/30/22 11:35	1

Client Sample ID: FB-09

Date Collected: 08/30/22 13:25

Date Received: 09/01/22 11:48

Lab Sample ID: 680-220481-14

Matrix: Water

Method: MCAWW 300.0-1993 R2.1 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	<0.20		1.0	0.20	mg/L			09/10/22 18:04	1
Fluoride	<0.040		0.10	0.040	mg/L			09/10/22 18:04	1
Sulfate	<0.40		1.0	0.40	mg/L			09/10/22 18:04	1

Method: SW846 6020B - Metals (ICP/MS) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Barium	<0.00089		0.010	0.00089	mg/L		09/02/22 08:05	09/10/22 05:22	1
Beryllium	<0.00020		0.0025	0.00020	mg/L		09/02/22 08:05	09/10/22 05:22	1
Calcium	<0.14		0.50	0.14	mg/L		09/02/22 08:05	09/10/22 05:22	1
Cobalt	<0.00022		0.0025	0.00022	mg/L		09/02/22 08:05	09/10/22 05:22	1

Method: SW846 EPA 6020B - Metals (ICP/MS) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Boron	<0.060		0.080	0.060	mg/L		09/23/22 14:25	09/30/22 09:48	1
Chromium	<0.0015		0.0020	0.0015	mg/L		10/08/22 10:24	10/11/22 23:09	1
Copper	<0.0011		0.0020	0.0011	mg/L		09/23/22 14:25	09/28/22 19:23	1
Lead	<0.00017		0.0010	0.00017	mg/L		09/23/22 14:25	09/28/22 19:23	1
Vanadium	<0.00078		0.0010	0.00078	mg/L		09/23/22 14:25	09/28/22 19:23	1
Zinc	0.012		0.0050	0.0029	mg/L		10/08/22 10:24	10/11/22 23:09	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids (SM 2540C-2011)	<10		10	10	mg/L			09/02/22 12:02	1

Client Sample ID: GWA-3A

Date Collected: 08/30/22 13:47

Date Received: 09/01/22 11:48

Lab Sample ID: 680-220481-15

Matrix: Water

Method: MCAWW 300.0-1993 R2.1 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	26		1.0	0.20	mg/L			09/10/22 18:17	1
Fluoride	<0.040		0.10	0.040	mg/L			09/10/22 18:17	1
Sulfate	<0.40		1.0	0.40	mg/L			09/10/22 18:17	1

Eurofins Savannah

Client Sample Results

Client: Southern Company
Project/Site: Plant McIntosh Landfill #3

Job ID: 680-220481-1

Client Sample ID: GWA-3A

Lab Sample ID: 680-220481-15

Date Collected: 08/30/22 13:47

Matrix: Water

Date Received: 09/01/22 11:48

Method: SW846 6020B - Metals (ICP/MS) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Barium	0.11		0.010	0.00089	mg/L		09/02/22 08:05	09/10/22 05:26	1
Beryllium	0.00083	J	0.0025	0.00020	mg/L		09/02/22 08:05	09/10/22 05:26	1
Calcium	3.9		0.50	0.14	mg/L		09/02/22 08:05	09/10/22 05:26	1
Cobalt	0.0023	J	0.0025	0.00022	mg/L		09/02/22 08:05	09/10/22 05:26	1

Method: SW846 EPA 6020B - Metals (ICP/MS) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Boron	0.10		0.080	0.060	mg/L		09/23/22 14:25	09/30/22 09:51	1
Chromium	0.0084		0.0020	0.0015	mg/L		09/23/22 14:25	09/28/22 19:26	1
Copper	0.0029		0.0020	0.0011	mg/L		09/23/22 14:25	09/28/22 19:26	1
Lead	<0.00017		0.0010	0.00017	mg/L		09/23/22 14:25	09/28/22 19:26	1
Vanadium	<0.00078		0.0010	0.00078	mg/L		09/23/22 14:25	09/28/22 19:26	1
Zinc	0.012		0.0050	0.0029	mg/L		10/08/22 10:24	10/11/22 23:12	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids (SM 2540C-2011)	87		10	10	mg/L			09/02/22 12:02	1

Method: EPA Field Sampling - Field Sampling

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Field pH	4.71				SU			08/30/22 13:47	1

Client Sample ID: GWC-2

Lab Sample ID: 680-220481-16

Date Collected: 08/30/22 14:53

Matrix: Water

Date Received: 09/01/22 11:48

Method: MCAWW 300.0-1993 R2.1 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	4.8		1.0	0.20	mg/L			09/10/22 18:29	1
Fluoride	<0.040		0.10	0.040	mg/L			09/10/22 18:29	1
Sulfate	1.1		1.0	0.40	mg/L			09/10/22 18:29	1

Method: SW846 6020B - Metals (ICP/MS) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Barium	0.058		0.010	0.00089	mg/L		09/02/22 08:05	09/10/22 05:30	1
Beryllium	0.00038	J	0.0025	0.00020	mg/L		09/02/22 08:05	09/10/22 05:30	1
Calcium	1.4		0.50	0.14	mg/L		09/02/22 08:05	09/10/22 05:30	1
Cobalt	0.0012	J	0.0025	0.00022	mg/L		09/02/22 08:05	09/10/22 05:30	1

Method: SW846 EPA 6020B - Metals (ICP/MS) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Boron	0.085		0.080	0.060	mg/L		09/23/22 14:25	09/30/22 09:53	1
Chromium	0.0050		0.0020	0.0015	mg/L		09/23/22 14:25	09/28/22 19:30	1
Copper	<0.0011		0.0020	0.0011	mg/L		09/23/22 14:25	09/28/22 19:30	1
Lead	<0.00017		0.0010	0.00017	mg/L		09/23/22 14:25	09/28/22 19:30	1
Vanadium	<0.00078		0.0010	0.00078	mg/L		09/23/22 14:25	09/28/22 19:30	1
Zinc	0.012		0.0050	0.0029	mg/L		10/08/22 10:24	10/11/22 23:16	1

Eurofins Savannah

Client Sample Results

Client: Southern Company
Project/Site: Plant McIntosh Landfill #3

Job ID: 680-220481-1

Client Sample ID: GWC-2

Date Collected: 08/30/22 14:53

Date Received: 09/01/22 11:48

Lab Sample ID: 680-220481-16

Matrix: Water

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids (SM 2540C-2011)	38		10	10	mg/L			09/06/22 11:31	1

Method: EPA Field Sampling - Field Sampling

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Field pH	4.96				SU			08/30/22 14:53	1

Client Sample ID: GWC-4A

Date Collected: 08/30/22 15:52

Date Received: 09/01/22 11:48

Lab Sample ID: 680-220481-17

Matrix: Water

Method: MCAWW 300.0-1993 R2.1 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	4.8		1.0	0.20	mg/L			09/10/22 18:42	1
Fluoride	<0.040		0.10	0.040	mg/L			09/10/22 18:42	1
Sulfate	<0.40		1.0	0.40	mg/L			09/10/22 18:42	1

Method: SW846 6020B - Metals (ICP/MS) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Barium	0.035		0.010	0.00089	mg/L		09/02/22 08:05	09/10/22 05:33	1
Beryllium	<0.00020		0.0025	0.00020	mg/L		09/02/22 08:05	09/10/22 05:33	1
Calcium	0.39	J	0.50	0.14	mg/L		09/02/22 08:05	09/10/22 05:33	1
Cobalt	0.00048	J	0.0025	0.00022	mg/L		09/02/22 08:05	09/10/22 05:33	1

Method: SW846 EPA 6020B - Metals (ICP/MS) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Boron	<0.060		0.080	0.060	mg/L		09/23/22 14:25	09/30/22 09:56	1
Chromium	<0.0015		0.0020	0.0015	mg/L		09/23/22 14:25	09/28/22 19:34	1
Copper	<0.0011		0.0020	0.0011	mg/L		09/23/22 14:25	09/28/22 19:34	1
Lead	<0.00017		0.0010	0.00017	mg/L		09/23/22 14:25	09/28/22 19:34	1
Vanadium	<0.00078		0.0010	0.00078	mg/L		09/23/22 14:25	09/28/22 19:34	1
Zinc	0.0046	J	0.0050	0.0029	mg/L		10/08/22 10:24	10/11/22 23:19	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids (SM 2540C-2011)	21		10	10	mg/L			09/06/22 11:31	1

Method: EPA Field Sampling - Field Sampling

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Field pH	4.71				SU			08/30/22 15:52	1

Client Sample ID: EB-12

Date Collected: 08/31/22 11:35

Date Received: 09/01/22 11:48

Lab Sample ID: 680-220481-18

Matrix: Water

Method: MCAWW 300.0-1993 R2.1 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	<0.20		1.0	0.20	mg/L			09/07/22 13:44	1
Fluoride	<0.040		0.10	0.040	mg/L			09/07/22 13:44	1
Sulfate	<0.40		1.0	0.40	mg/L			09/07/22 13:44	1

Eurofins Savannah

Client Sample Results

Client: Southern Company
Project/Site: Plant McIntosh Landfill #3

Job ID: 680-220481-1

Client Sample ID: EB-12
Date Collected: 08/31/22 11:35
Date Received: 09/01/22 11:48

Lab Sample ID: 680-220481-18
Matrix: Water

Method: SW846 6020B - Metals (ICP/MS) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Barium	<0.00089		0.010	0.00089	mg/L		09/02/22 08:05	09/10/22 05:45	1
Beryllium	<0.00020		0.0025	0.00020	mg/L		09/02/22 08:05	09/10/22 05:45	1
Calcium	<0.14		0.50	0.14	mg/L		09/02/22 08:05	09/10/22 05:45	1
Cobalt	<0.00022		0.0025	0.00022	mg/L		09/02/22 08:05	09/10/22 05:45	1

Method: SW846 EPA 6020B - Metals (ICP/MS) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Boron	<0.060		0.080	0.060	mg/L		09/23/22 14:25	09/30/22 09:59	1
Chromium	<0.0015		0.0020	0.0015	mg/L		09/23/22 14:25	09/28/22 19:37	1
Copper	<0.0011		0.0020	0.0011	mg/L		09/23/22 14:25	09/28/22 19:37	1
Lead	<0.00017		0.0010	0.00017	mg/L		09/23/22 14:25	09/28/22 19:37	1
Vanadium	<0.00078		0.0010	0.00078	mg/L		09/23/22 14:25	09/28/22 19:37	1
Zinc	0.0066		0.0050	0.0029	mg/L		10/08/22 10:24	10/11/22 23:22	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids (SM 2540C-2011)	<10		10	10	mg/L			09/06/22 11:31	1

Client Sample ID: GWC-5A
Date Collected: 08/31/22 11:40
Date Received: 09/01/22 11:48

Lab Sample ID: 680-220481-19
Matrix: Water

Method: MCAWW 300.0-1993 R2.1 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	4.5		1.0	0.20	mg/L			09/07/22 13:57	1
Fluoride	<0.040		0.10	0.040	mg/L			09/07/22 13:57	1
Sulfate	<0.40		1.0	0.40	mg/L			09/07/22 13:57	1

Method: SW846 6020B - Metals (ICP/MS) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Barium	0.057		0.010	0.00089	mg/L		09/02/22 08:05	09/10/22 05:48	1
Beryllium	<0.00020		0.0025	0.00020	mg/L		09/02/22 08:05	09/10/22 05:48	1
Calcium	0.98		0.50	0.14	mg/L		09/02/22 08:05	09/10/22 05:48	1
Cobalt	0.0018	J	0.0025	0.00022	mg/L		09/02/22 08:05	09/10/22 05:48	1

Method: SW846 EPA 6020B - Metals (ICP/MS) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Boron	<0.060		0.080	0.060	mg/L		09/23/22 14:25	09/30/22 10:02	1
Chromium	0.0021		0.0020	0.0015	mg/L		09/23/22 14:25	09/28/22 19:41	1
Copper	<0.0011		0.0020	0.0011	mg/L		09/23/22 14:25	09/28/22 19:41	1
Lead	0.00027	J	0.0010	0.00017	mg/L		09/23/22 14:25	09/28/22 19:41	1
Vanadium	<0.00078		0.0010	0.00078	mg/L		09/23/22 14:25	09/28/22 19:41	1
Zinc	0.014		0.0050	0.0029	mg/L		10/08/22 10:24	10/11/22 23:32	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids (SM 2540C-2011)	27		10	10	mg/L			09/06/22 11:31	1

Eurofins Savannah

Client Sample Results

Client: Southern Company
Project/Site: Plant McIntosh Landfill #3

Job ID: 680-220481-1

Client Sample ID: GWC-5A

Lab Sample ID: 680-220481-19

Date Collected: 08/31/22 11:40

Matrix: Water

Date Received: 09/01/22 11:48

Method: EPA Field Sampling - Field Sampling

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Field pH	4.97				SU			08/31/22 11:40	1

Client Sample ID: GWC-6A

Lab Sample ID: 680-220481-20

Date Collected: 08/31/22 12:35

Matrix: Water

Date Received: 09/01/22 11:48

Method: MCAWW 300.0-1993 R2.1 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	9.6		1.0	0.20	mg/L			09/07/22 14:10	1
Fluoride	<0.040		0.10	0.040	mg/L			09/07/22 14:10	1
Sulfate	3.5		1.0	0.40	mg/L			09/07/22 14:10	1

Method: SW846 6020B - Metals (ICP/MS) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Barium	0.081		0.010	0.00089	mg/L		09/02/22 08:10	09/06/22 18:41	1
Beryllium	0.00029	J	0.0025	0.00020	mg/L		09/02/22 08:10	09/06/22 18:41	1
Calcium	3.2		0.50	0.14	mg/L		09/02/22 08:10	09/06/22 18:41	1
Cobalt	0.0012	J	0.0025	0.00022	mg/L		09/02/22 08:10	09/06/22 18:41	1

Method: SW846 EPA 6020B - Metals (ICP/MS) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Boron	<0.060		0.080	0.060	mg/L		09/23/22 14:25	09/30/22 10:05	1
Chromium	<0.0015		0.0020	0.0015	mg/L		09/23/22 14:25	09/28/22 19:52	1
Copper	<0.0011		0.0020	0.0011	mg/L		09/23/22 14:25	09/28/22 19:52	1
Lead	<0.00017		0.0010	0.00017	mg/L		09/23/22 14:25	09/28/22 19:52	1
Vanadium	<0.00078		0.0010	0.00078	mg/L		09/23/22 14:25	09/28/22 19:52	1
Zinc	0.0049	J	0.0050	0.0029	mg/L		10/08/22 10:24	10/11/22 23:36	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids (SM 2540C-2011)	73		10	10	mg/L			09/06/22 11:31	1

Method: EPA Field Sampling - Field Sampling

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Field pH	5.07				SU			08/31/22 12:35	1

Client Sample ID: GWC-5

Lab Sample ID: 680-220481-21

Date Collected: 09/01/22 10:00

Matrix: Water

Date Received: 09/01/22 11:48

Method: MCAWW 300.0-1993 R2.1 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	7.0		1.0	0.20	mg/L			09/07/22 14:22	1
Fluoride	<0.040		0.10	0.040	mg/L			09/07/22 14:22	1
Sulfate	<0.40		1.0	0.40	mg/L			09/07/22 14:22	1

Method: SW846 6020B - Metals (ICP/MS) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Barium	0.36		0.010	0.00089	mg/L		09/02/22 08:10	09/06/22 18:45	1
Beryllium	0.0018	J	0.0025	0.00020	mg/L		09/02/22 08:10	09/06/22 18:45	1
Calcium	5.2		0.50	0.14	mg/L		09/02/22 08:10	09/06/22 18:45	1

Eurofins Savannah

Client Sample Results

Client: Southern Company
Project/Site: Plant McIntosh Landfill #3

Job ID: 680-220481-1

Client Sample ID: GWC-5

Lab Sample ID: 680-220481-21

Date Collected: 09/01/22 10:00

Matrix: Water

Date Received: 09/01/22 11:48

Method: SW846 6020B - Metals (ICP/MS) - Total Recoverable (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cobalt	0.012		0.0025	0.00022	mg/L		09/02/22 08:10	09/06/22 18:45	1

Method: SW846 EPA 6020B - Metals (ICP/MS) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Boron	<0.060		0.080	0.060	mg/L		09/23/22 14:25	09/30/22 10:13	1
Chromium	0.014		0.0020	0.0015	mg/L		09/23/22 14:25	09/28/22 19:55	1
Copper	0.0012	J	0.0020	0.0011	mg/L		09/23/22 14:25	09/28/22 19:55	1
Lead	0.00031	J	0.0010	0.00017	mg/L		09/23/22 14:25	09/28/22 19:55	1
Vanadium	<0.00078		0.0010	0.00078	mg/L		09/23/22 14:25	09/28/22 19:55	1
Zinc	0.035		0.0050	0.0029	mg/L		10/08/22 10:24	10/11/22 23:39	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids (SM 2540C-2011)	140		10	10	mg/L			09/06/22 11:31	1

Method: EPA Field Sampling - Field Sampling

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Field pH	4.29				SU			09/01/22 10:00	1

QC Sample Results

Client: Southern Company
Project/Site: Plant McIntosh Landfill #3

Job ID: 680-220481-1

Method: 300.0-1993 R2.1 - Anions, Ion Chromatography

Lab Sample ID: MB 680-739220/2
Matrix: Water
Analysis Batch: 739220

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	<0.20		1.0	0.20	mg/L			09/07/22 11:32	1
Fluoride	<0.040		0.10	0.040	mg/L			09/07/22 11:32	1
Sulfate	<0.40		1.0	0.40	mg/L			09/07/22 11:32	1

Lab Sample ID: LCS 680-739220/3
Matrix: Water
Analysis Batch: 739220

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Chloride	10.0	9.94		mg/L		99	90 - 110
Fluoride	2.00	2.00		mg/L		100	90 - 110
Sulfate	10.0	10.7		mg/L		107	90 - 110

Lab Sample ID: LCSD 680-739220/4
Matrix: Water
Analysis Batch: 739220

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chloride	10.0	9.93		mg/L		99	90 - 110	0	15
Fluoride	2.00	2.00		mg/L		100	90 - 110	0	15
Sulfate	10.0	10.6		mg/L		106	90 - 110	1	15

Lab Sample ID: 680-220574-D-13 MS
Matrix: Water
Analysis Batch: 739220

Client Sample ID: Matrix Spike
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Chloride	6.2		10.0	16.0		mg/L		98	80 - 120
Fluoride	0.075	J	2.00	2.12		mg/L		102	80 - 120
Sulfate	21		10.0	30.9		mg/L		97	80 - 120

Lab Sample ID: 680-220574-D-13 MSD
Matrix: Water
Analysis Batch: 739220

Client Sample ID: Matrix Spike Duplicate
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chloride	6.2		10.0	16.4		mg/L		102	80 - 120	2	15
Fluoride	0.075	J	2.00	2.20		mg/L		106	80 - 120	4	15
Sulfate	21		10.0	31.3		mg/L		100	80 - 120	1	15

Lab Sample ID: MB 680-739699/2
Matrix: Water
Analysis Batch: 739699

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	<0.20		1.0	0.20	mg/L			09/10/22 11:47	1
Fluoride	<0.040		0.10	0.040	mg/L			09/10/22 11:47	1
Sulfate	<0.40		1.0	0.40	mg/L			09/10/22 11:47	1

Eurofins Savannah

QC Sample Results

Client: Southern Company
Project/Site: Plant McIntosh Landfill #3

Job ID: 680-220481-1

Method: 300.0-1993 R2.1 - Anions, Ion Chromatography (Continued)

Lab Sample ID: LCS 680-739699/3
Matrix: Water
Analysis Batch: 739699

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Chloride	10.0	9.82		mg/L		98	90 - 110
Fluoride	2.00	1.96		mg/L		98	90 - 110
Sulfate	10.0	10.3		mg/L		103	90 - 110

Lab Sample ID: LCSD 680-739699/4
Matrix: Water
Analysis Batch: 739699

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chloride	10.0	9.74		mg/L		97	90 - 110	1	15
Fluoride	2.00	1.94		mg/L		97	90 - 110	1	15
Sulfate	10.0	10.4		mg/L		104	90 - 110	1	15

Lab Sample ID: 680-220510-H-1 MS
Matrix: Water
Analysis Batch: 739699

Client Sample ID: Matrix Spike
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Chloride	370		20.0	390	4	mg/L		79	80 - 120
Fluoride	2.2		4.00	6.18		mg/L		100	80 - 120
Sulfate	100		20.0	122	4	mg/L		97	80 - 120

Lab Sample ID: 680-220510-H-1 MSD
Matrix: Water
Analysis Batch: 739699

Client Sample ID: Matrix Spike Duplicate
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chloride	370		20.0	393	4	mg/L		94	80 - 120	1	15
Fluoride	2.2		4.00	6.10		mg/L		98	80 - 120	1	15
Sulfate	100		20.0	122	4	mg/L		98	80 - 120	0	15

Lab Sample ID: 680-220514-H-1 MS
Matrix: Water
Analysis Batch: 739699

Client Sample ID: Matrix Spike
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Chloride	61		10.0	70.6	4	mg/L		97	80 - 120
Fluoride	0.51		2.00	2.45		mg/L		97	80 - 120
Sulfate	24		10.0	34.3		mg/L		100	80 - 120

Lab Sample ID: 680-220514-H-1 MSD
Matrix: Water
Analysis Batch: 739699

Client Sample ID: Matrix Spike Duplicate
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chloride	61		10.0	70.5	4	mg/L		95	80 - 120	0	15
Fluoride	0.51		2.00	2.42		mg/L		95	80 - 120	1	15
Sulfate	24		10.0	34.2		mg/L		99	80 - 120	0	15

Eurofins Savannah

QC Sample Results

Client: Southern Company
Project/Site: Plant McIntosh Landfill #3

Job ID: 680-220481-1

Method: 6020B - Metals (ICP/MS)

Lab Sample ID: MB 680-738607/1-A
Matrix: Water
Analysis Batch: 739706

Client Sample ID: Method Blank
Prep Type: Total Recoverable
Prep Batch: 738607

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Barium	<0.00089		0.010	0.00089	mg/L		09/02/22 08:05	09/10/22 04:16	1
Beryllium	<0.00020		0.0025	0.00020	mg/L		09/02/22 08:05	09/10/22 04:16	1
Calcium	<0.14		0.50	0.14	mg/L		09/02/22 08:05	09/10/22 04:16	1
Cobalt	<0.00022		0.0025	0.00022	mg/L		09/02/22 08:05	09/10/22 04:16	1

Lab Sample ID: LCS 680-738607/2-A
Matrix: Water
Analysis Batch: 739706

Client Sample ID: Lab Control Sample
Prep Type: Total Recoverable
Prep Batch: 738607

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Barium	0.100	0.0936		mg/L		94	80 - 120
Beryllium	0.0500	0.0544		mg/L		109	80 - 120
Calcium	5.00	4.69		mg/L		94	80 - 120
Cobalt	0.0500	0.0501		mg/L		100	80 - 120

Lab Sample ID: 680-220481-1 MS
Matrix: Water
Analysis Batch: 739706

Client Sample ID: GWA-7A
Prep Type: Total Recoverable
Prep Batch: 738607

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Barium	0.047		0.100	0.142		mg/L		95	75 - 125
Beryllium	0.00070	J	0.0500	0.0554		mg/L		109	75 - 125
Calcium	14		5.00	18.0		mg/L		83	75 - 125
Cobalt	0.0024	J	0.0500	0.0535		mg/L		102	75 - 125

Lab Sample ID: 680-220481-1 MSD
Matrix: Water
Analysis Batch: 739706

Client Sample ID: GWA-7A
Prep Type: Total Recoverable
Prep Batch: 738607

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	Limit
Barium	0.047		0.100	0.139		mg/L		92	75 - 125	2	20
Beryllium	0.00070	J	0.0500	0.0527		mg/L		104	75 - 125	5	20
Calcium	14		5.00	17.6		mg/L		75	75 - 125	2	20
Cobalt	0.0024	J	0.0500	0.0525		mg/L		100	75 - 125	2	20

Lab Sample ID: MB 680-738753/1-A
Matrix: Water
Analysis Batch: 739233

Client Sample ID: Method Blank
Prep Type: Total Recoverable
Prep Batch: 738753

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Barium	<0.00089		0.010	0.00089	mg/L		09/02/22 08:10	09/06/22 18:14	1
Beryllium	<0.00020		0.0025	0.00020	mg/L		09/02/22 08:10	09/06/22 18:14	1
Calcium	<0.14		0.50	0.14	mg/L		09/02/22 08:10	09/06/22 18:14	1
Cobalt	<0.00022		0.0025	0.00022	mg/L		09/02/22 08:10	09/06/22 18:14	1

QC Sample Results

Client: Southern Company
Project/Site: Plant McIntosh Landfill #3

Job ID: 680-220481-1

Method: 6020B - Metals (ICP/MS) (Continued)

Lab Sample ID: LCS 680-738753/2-A
Matrix: Water
Analysis Batch: 739233

Client Sample ID: Lab Control Sample
Prep Type: Total Recoverable
Prep Batch: 738753

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Barium	0.100	0.0953		mg/L		95	80 - 120
Beryllium	0.0500	0.0515		mg/L		103	80 - 120
Calcium	5.00	4.86		mg/L		97	80 - 120
Cobalt	0.0500	0.0520		mg/L		104	80 - 120

Lab Sample ID: 680-220470-A-3-H MS
Matrix: Water
Analysis Batch: 739233

Client Sample ID: Matrix Spike
Prep Type: Total Recoverable
Prep Batch: 738753

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Barium	0.052		0.100	0.146		mg/L		94	75 - 125
Beryllium	0.00030	J	0.0500	0.0554		mg/L		110	75 - 125
Calcium	2.9		5.00	7.84		mg/L		100	75 - 125
Cobalt	0.011		0.0500	0.0652		mg/L		108	75 - 125

Lab Sample ID: 680-220470-A-3-I MSD
Matrix: Water
Analysis Batch: 739233

Client Sample ID: Matrix Spike Duplicate
Prep Type: Total Recoverable
Prep Batch: 738753

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Barium	0.052		0.100	0.156		mg/L		104	75 - 125	6	20
Beryllium	0.00030	J	0.0500	0.0541		mg/L		108	75 - 125	2	20
Calcium	2.9		5.00	7.90		mg/L		101	75 - 125	1	20
Cobalt	0.011		0.0500	0.0686		mg/L		115	75 - 125	5	20

Lab Sample ID: MB 680-739049/1-A
Matrix: Water
Analysis Batch: 739233

Client Sample ID: Method Blank
Prep Type: Total Recoverable
Prep Batch: 739049

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Barium	<0.00089		0.010	0.00089	mg/L		09/02/22 12:09	09/06/22 21:10	1
Beryllium	<0.00020		0.0025	0.00020	mg/L		09/02/22 12:09	09/06/22 21:10	1
Calcium	<0.14		0.50	0.14	mg/L		09/02/22 12:09	09/06/22 21:10	1
Cobalt	<0.00022		0.0025	0.00022	mg/L		09/02/22 12:09	09/06/22 21:10	1

Lab Sample ID: LCS 680-739049/2-A
Matrix: Water
Analysis Batch: 739233

Client Sample ID: Lab Control Sample
Prep Type: Total Recoverable
Prep Batch: 739049

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Barium	0.100	0.104		mg/L		104	80 - 120
Beryllium	0.0500	0.0519		mg/L		104	80 - 120
Calcium	5.00	5.13		mg/L		103	80 - 120
Cobalt	0.0500	0.0586		mg/L		117	80 - 120

QC Sample Results

Client: Southern Company
Project/Site: Plant McIntosh Landfill #3

Job ID: 680-220481-1

Method: 6020B - Metals (ICP/MS) (Continued)

Lab Sample ID: 660-123324-C-1-E MS
Matrix: Water
Analysis Batch: 739233

Client Sample ID: Matrix Spike
Prep Type: Total Recoverable
Prep Batch: 739049

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Barium	0.0019	J	0.100	0.0941		mg/L		92	75 - 125
Beryllium	<0.00020		0.0500	0.0557		mg/L		111	75 - 125
Calcium	0.99		5.00	6.02		mg/L		101	75 - 125
Cobalt	<0.00022		0.0500	0.0521		mg/L		104	75 - 125

Lab Sample ID: 660-123324-C-1-F MSD
Matrix: Water
Analysis Batch: 739233

Client Sample ID: Matrix Spike Duplicate
Prep Type: Total Recoverable
Prep Batch: 739049

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Barium	0.0019	J	0.100	0.109		mg/L		107	75 - 125	15	20
Beryllium	<0.00020		0.0500	0.0580		mg/L		116	75 - 125	4	20
Calcium	0.99		5.00	6.34		mg/L		107	75 - 125	5	20
Cobalt	<0.00022		0.0500	0.0599		mg/L		120	75 - 125	14	20

Method: EPA 6020B - Metals (ICP/MS)

Lab Sample ID: MB 180-413001/1-A
Matrix: Water
Analysis Batch: 414527

Client Sample ID: Method Blank
Prep Type: Total Recoverable
Prep Batch: 413001

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Copper	<0.0011		0.0020	0.0011	mg/L		09/23/22 11:10	10/08/22 16:12	1
Lead	<0.00017		0.0010	0.00017	mg/L		09/23/22 11:10	10/08/22 16:12	1
Vanadium	<0.00078		0.0010	0.00078	mg/L		09/23/22 11:10	10/08/22 16:12	1
Zinc	<0.0029		0.0050	0.0029	mg/L		09/23/22 11:10	10/08/22 16:12	1

Lab Sample ID: MB 180-413001/1-A
Matrix: Water
Analysis Batch: 414650

Client Sample ID: Method Blank
Prep Type: Total Recoverable
Prep Batch: 413001

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Boron	<0.060		0.080	0.060	mg/L		09/23/22 11:10	10/09/22 09:06	1

Lab Sample ID: LCS 180-413001/2-A
Matrix: Water
Analysis Batch: 414527

Client Sample ID: Lab Control Sample
Prep Type: Total Recoverable
Prep Batch: 413001

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Copper	0.500	0.482		mg/L		96	80 - 120
Lead	0.500	0.510		mg/L		102	80 - 120
Vanadium	0.500	0.506		mg/L		101	80 - 120
Zinc	0.250	0.257		mg/L		103	80 - 120

Lab Sample ID: LCS 180-413001/2-A
Matrix: Water
Analysis Batch: 414650

Client Sample ID: Lab Control Sample
Prep Type: Total Recoverable
Prep Batch: 413001

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Boron	1.25	1.21		mg/L		97	80 - 120

Eurofins Savannah

QC Sample Results

Client: Southern Company
Project/Site: Plant McIntosh Landfill #3

Job ID: 680-220481-1

Method: EPA 6020B - Metals (ICP/MS)

Lab Sample ID: 680-220434-G-1-C MS
Matrix: Water
Analysis Batch: 414527

Client Sample ID: Matrix Spike
Prep Type: Total Recoverable
Prep Batch: 413001

Analyte	Sample	Sample	Spike	MS	MS	Unit	D	%Rec	%Rec	Limits
	Result	Qualifier	Added	Result	Qualifier					
Copper	0.0055		0.500	0.489		mg/L		97		75 - 125
Lead	<0.00017		0.500	0.506		mg/L		101		75 - 125
Vanadium	0.0040		0.500	0.500		mg/L		99		75 - 125
Zinc	0.0035	J	0.250	0.258		mg/L		102		75 - 125

Lab Sample ID: 680-220434-G-1-C MS
Matrix: Water
Analysis Batch: 414650

Client Sample ID: Matrix Spike
Prep Type: Total Recoverable
Prep Batch: 413001

Analyte	Sample	Sample	Spike	MS	MS	Unit	D	%Rec	%Rec	Limits
	Result	Qualifier	Added	Result	Qualifier					
Boron	0.13		1.25	1.51		mg/L		110		75 - 125

Lab Sample ID: 680-220434-G-1-D MSD
Matrix: Water
Analysis Batch: 414527

Client Sample ID: Matrix Spike Duplicate
Prep Type: Total Recoverable
Prep Batch: 413001

Analyte	Sample	Sample	Spike	MSD	MSD	Unit	D	%Rec	%Rec	Limits	RPD	Limit
	Result	Qualifier	Added	Result	Qualifier							
Copper	0.0055		0.500	0.494		mg/L		98		75 - 125	1	20
Lead	<0.00017		0.500	0.511		mg/L		102		75 - 125	1	20
Vanadium	0.0040		0.500	0.507		mg/L		101		75 - 125	1	20
Zinc	0.0035	J	0.250	0.255		mg/L		101		75 - 125	1	20

Lab Sample ID: 680-220434-G-1-D MSD
Matrix: Water
Analysis Batch: 414650

Client Sample ID: Matrix Spike Duplicate
Prep Type: Total Recoverable
Prep Batch: 413001

Analyte	Sample	Sample	Spike	MSD	MSD	Unit	D	%Rec	%Rec	Limits	RPD	Limit
	Result	Qualifier	Added	Result	Qualifier							
Boron	0.13		1.25	1.68		mg/L		124		75 - 125	11	20
Copper	<0.0011		0.500	0.499		mg/L		100		75 - 125	2	20
Lead	<0.00017		0.500	0.505		mg/L		101		75 - 125	0	20
Vanadium	<0.00078		0.500	0.507		mg/L		101		75 - 125	3	20
Zinc	<0.0029		0.250	0.262		mg/L		105		75 - 125	1	20

Lab Sample ID: MB 180-413041/1-A
Matrix: Water
Analysis Batch: 413603

Client Sample ID: Method Blank
Prep Type: Total Recoverable
Prep Batch: 413041

Analyte	MB	MB	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
Chromium	<0.0015		0.0020	0.0015	mg/L		09/23/22 14:25	09/28/22 19:12	1
Copper	<0.0011		0.0020	0.0011	mg/L		09/23/22 14:25	09/28/22 19:12	1
Lead	<0.00017		0.0010	0.00017	mg/L		09/23/22 14:25	09/28/22 19:12	1
Vanadium	<0.00078		0.0010	0.00078	mg/L		09/23/22 14:25	09/28/22 19:12	1

Lab Sample ID: MB 180-413041/1-A
Matrix: Water
Analysis Batch: 413758

Client Sample ID: Method Blank
Prep Type: Total Recoverable
Prep Batch: 413041

Analyte	MB	MB	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
Boron	<0.060		0.080	0.060	mg/L		09/23/22 14:25	09/30/22 09:00	1

Eurofins Savannah

QC Sample Results

Client: Southern Company
Project/Site: Plant McIntosh Landfill #3

Job ID: 680-220481-1

Method: EPA 6020B - Metals (ICP/MS) (Continued)

Lab Sample ID: LCS 180-413041/2-A
Matrix: Water
Analysis Batch: 413603

Client Sample ID: Lab Control Sample
Prep Type: Total Recoverable
Prep Batch: 413041

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Chromium	0.500	0.517		mg/L		103	80 - 120
Copper	0.500	0.485		mg/L		97	80 - 120
Lead	0.500	0.510		mg/L		102	80 - 120
Vanadium	0.500	0.511		mg/L		102	80 - 120

Lab Sample ID: LCS 180-413041/2-A
Matrix: Water
Analysis Batch: 413758

Client Sample ID: Lab Control Sample
Prep Type: Total Recoverable
Prep Batch: 413041

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Boron	1.25	1.36		mg/L		109	80 - 120

Lab Sample ID: 680-220258-E-3-B MS
Matrix: Water
Analysis Batch: 413603

Client Sample ID: Matrix Spike
Prep Type: Total Recoverable
Prep Batch: 413041

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Chromium	0.0049		0.500	0.518		mg/L		103	75 - 125
Copper	<0.0011		0.500	0.490		mg/L		98	75 - 125
Lead	<0.00017		0.500	0.515		mg/L		103	75 - 125
Vanadium	0.0099		0.500	0.519		mg/L		102	75 - 125

Lab Sample ID: 680-220258-E-3-C MSD
Matrix: Water
Analysis Batch: 413603

Client Sample ID: Matrix Spike Duplicate
Prep Type: Total Recoverable
Prep Batch: 413041

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	Limit
Chromium	0.0049		0.500	0.521		mg/L		103	75 - 125	1	20
Copper	<0.0011		0.500	0.500		mg/L		100	75 - 125	2	20
Lead	<0.00017		0.500	0.525		mg/L		105	75 - 125	2	20
Vanadium	0.0099		0.500	0.529		mg/L		104	75 - 125	2	20

Lab Sample ID: MB 180-414497/1-A
Matrix: Water
Analysis Batch: 414780

Client Sample ID: Method Blank
Prep Type: Total Recoverable
Prep Batch: 414497

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Zinc	<0.0029		0.0050	0.0029	mg/L		10/08/22 10:24	10/11/22 22:59	1

Lab Sample ID: LCS 180-414497/2-A
Matrix: Water
Analysis Batch: 414780

Client Sample ID: Lab Control Sample
Prep Type: Total Recoverable
Prep Batch: 414497

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Zinc	0.250	0.272		mg/L		109	80 - 120

Eurofins Savannah

QC Sample Results

Client: Southern Company
Project/Site: Plant McIntosh Landfill #3

Job ID: 680-220481-1

Method: EPA 6020B - Metals (ICP/MS) (Continued)

Lab Sample ID: MB 180-415539/1-A
Matrix: Water
Analysis Batch: 415759

Client Sample ID: Method Blank
Prep Type: Total Recoverable
Prep Batch: 415539

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chromium	<0.0015		0.0020	0.0015	mg/L		10/19/22 12:05	10/20/22 13:48	1

Lab Sample ID: LCS 180-415539/2-A
Matrix: Water
Analysis Batch: 415759

Client Sample ID: Lab Control Sample
Prep Type: Total Recoverable
Prep Batch: 415539

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Chromium	0.500	0.504		mg/L		101	80 - 120

Lab Sample ID: 680-220434-G-6-D MS
Matrix: Water
Analysis Batch: 415759

Client Sample ID: Matrix Spike
Prep Type: Total Recoverable
Prep Batch: 415539

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Chromium	<0.0015		0.500	0.505		mg/L		101	75 - 125

Lab Sample ID: 680-220434-G-6-E MSD
Matrix: Water
Analysis Batch: 415759

Client Sample ID: Matrix Spike Duplicate
Prep Type: Total Recoverable
Prep Batch: 415539

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chromium	<0.0015		0.500	0.504		mg/L		101	75 - 125	0	20

Method: 2540C-2011 - Total Dissolved Solids (Dried at 180 °C)

Lab Sample ID: MB 680-738697/1
Matrix: Water
Analysis Batch: 738697

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	<10		10	10	mg/L			09/02/22 12:02	1

Lab Sample ID: LCS 680-738697/2
Matrix: Water
Analysis Batch: 738697

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Total Dissolved Solids	2420	2440		mg/L		101	80 - 120

Lab Sample ID: LCSD 680-738697/3
Matrix: Water
Analysis Batch: 738697

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Total Dissolved Solids	2420	2400		mg/L		99	80 - 120	2	25

Eurofins Savannah

QC Sample Results

Client: Southern Company
Project/Site: Plant McIntosh Landfill #3

Job ID: 680-220481-1

Method: 2540C-2011 - Total Dissolved Solids (Dried at 180 °C) (Continued)

Lab Sample ID: 680-220450-A-1 DU
Matrix: Water
Analysis Batch: 738697

Client Sample ID: Duplicate
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
Total Dissolved Solids	2700		2690		mg/L		1	5

Lab Sample ID: 680-220453-A-1 DU
Matrix: Water
Analysis Batch: 738697

Client Sample ID: Duplicate
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
Total Dissolved Solids	3200		3000	F3	mg/L		6	5

Lab Sample ID: MB 680-739048/1
Matrix: Water
Analysis Batch: 739048

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	<10		10	10	mg/L			09/06/22 11:31	1

Lab Sample ID: LCS 680-739048/2
Matrix: Water
Analysis Batch: 739048

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Total Dissolved Solids	2420	2460		mg/L		102	80 - 120

Lab Sample ID: LCSD 680-739048/3
Matrix: Water
Analysis Batch: 739048

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Total Dissolved Solids	2420	2430		mg/L		100	80 - 120	1	25

Lab Sample ID: 680-220538-A-2 DU
Matrix: Water
Analysis Batch: 739048

Client Sample ID: Duplicate
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
Total Dissolved Solids	4800		4810		mg/L		0.2	5

QC Association Summary

Client: Southern Company
Project/Site: Plant McIntosh Landfill #3

Job ID: 680-220481-1

HPLC/IC

Analysis Batch: 739220

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-220481-18	EB-12	Total/NA	Water	300.0-1993 R2.1	
680-220481-19	GWC-5A	Total/NA	Water	300.0-1993 R2.1	
680-220481-20	GWC-6A	Total/NA	Water	300.0-1993 R2.1	
680-220481-21	GWC-5	Total/NA	Water	300.0-1993 R2.1	
MB 680-739220/2	Method Blank	Total/NA	Water	300.0-1993 R2.1	
LCS 680-739220/3	Lab Control Sample	Total/NA	Water	300.0-1993 R2.1	
LCSD 680-739220/4	Lab Control Sample Dup	Total/NA	Water	300.0-1993 R2.1	
680-220574-D-13 MS	Matrix Spike	Total/NA	Water	300.0-1993 R2.1	
680-220574-D-13 MSD	Matrix Spike Duplicate	Total/NA	Water	300.0-1993 R2.1	

Analysis Batch: 739699

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-220481-1	GWA-7A	Total/NA	Water	300.0-1993 R2.1	
680-220481-2	GWA-1B	Total/NA	Water	300.0-1993 R2.1	
680-220481-3	GWA-1A	Total/NA	Water	300.0-1993 R2.1	
680-220481-4	GWA-2B	Total/NA	Water	300.0-1993 R2.1	
680-220481-5	GWC-1A	Total/NA	Water	300.0-1993 R2.1	
680-220481-6	GWC-1	Total/NA	Water	300.0-1993 R2.1	
680-220481-7	GWC-6	Total/NA	Water	300.0-1993 R2.1	
680-220481-8	FD-06	Total/NA	Water	300.0-1993 R2.1	
680-220481-9	FB-10	Total/NA	Water	300.0-1993 R2.1	
680-220481-10	EB-11	Total/NA	Water	300.0-1993 R2.1	
680-220481-11	FD-05	Total/NA	Water	300.0-1993 R2.1	
680-220481-12	GWA-5	Total/NA	Water	300.0-1993 R2.1	
680-220481-13	GWA-4	Total/NA	Water	300.0-1993 R2.1	
680-220481-14	FB-09	Total/NA	Water	300.0-1993 R2.1	
680-220481-15	GWA-3A	Total/NA	Water	300.0-1993 R2.1	
680-220481-16	GWC-2	Total/NA	Water	300.0-1993 R2.1	
680-220481-17	GWC-4A	Total/NA	Water	300.0-1993 R2.1	
MB 680-739699/2	Method Blank	Total/NA	Water	300.0-1993 R2.1	
LCS 680-739699/3	Lab Control Sample	Total/NA	Water	300.0-1993 R2.1	
LCSD 680-739699/4	Lab Control Sample Dup	Total/NA	Water	300.0-1993 R2.1	
680-220510-H-1 MS	Matrix Spike	Total/NA	Water	300.0-1993 R2.1	
680-220510-H-1 MSD	Matrix Spike Duplicate	Total/NA	Water	300.0-1993 R2.1	
680-220514-H-1 MS	Matrix Spike	Total/NA	Water	300.0-1993 R2.1	
680-220514-H-1 MSD	Matrix Spike Duplicate	Total/NA	Water	300.0-1993 R2.1	

Metals

Prep Batch: 413001

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-220481-1	GWA-7A	Total Recoverable	Water	3005A	
680-220481-2	GWA-1B	Total Recoverable	Water	3005A	
680-220481-3	GWA-1A	Total Recoverable	Water	3005A	
680-220481-4	GWA-2B	Total Recoverable	Water	3005A	
680-220481-5	GWC-1A	Total Recoverable	Water	3005A	
680-220481-6	GWC-1	Total Recoverable	Water	3005A	
680-220481-7	GWC-6	Total Recoverable	Water	3005A	
680-220481-8	FD-06	Total Recoverable	Water	3005A	
680-220481-9	FB-10	Total Recoverable	Water	3005A	
680-220481-10	EB-11	Total Recoverable	Water	3005A	

Eurofins Savannah

QC Association Summary

Client: Southern Company
Project/Site: Plant McIntosh Landfill #3

Job ID: 680-220481-1

Metals (Continued)

Prep Batch: 413001 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-220481-11	FD-05	Total Recoverable	Water	3005A	
680-220481-12	GWA-5	Total Recoverable	Water	3005A	
MB 180-413001/1-A	Method Blank	Total Recoverable	Water	3005A	
LCS 180-413001/2-A	Lab Control Sample	Total Recoverable	Water	3005A	
680-220434-G-1-C MS	Matrix Spike	Total Recoverable	Water	3005A	
680-220434-G-1-D MSD	Matrix Spike Duplicate	Total Recoverable	Water	3005A	

Prep Batch: 413041

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-220481-13	GWA-4	Total Recoverable	Water	3005A	
680-220481-14	FB-09	Total Recoverable	Water	3005A	
680-220481-15	GWA-3A	Total Recoverable	Water	3005A	
680-220481-16	GWC-2	Total Recoverable	Water	3005A	
680-220481-17	GWC-4A	Total Recoverable	Water	3005A	
680-220481-18	EB-12	Total Recoverable	Water	3005A	
680-220481-19	GWC-5A	Total Recoverable	Water	3005A	
680-220481-20	GWC-6A	Total Recoverable	Water	3005A	
680-220481-21	GWC-5	Total Recoverable	Water	3005A	
MB 180-413041/1-A	Method Blank	Total Recoverable	Water	3005A	
LCS 180-413041/2-A	Lab Control Sample	Total Recoverable	Water	3005A	
680-220258-E-3-B MS	Matrix Spike	Total Recoverable	Water	3005A	
680-220258-E-3-C MSD	Matrix Spike Duplicate	Total Recoverable	Water	3005A	

Analysis Batch: 413603

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-220481-13	GWA-4	Total Recoverable	Water	EPA 6020B	413041
680-220481-14	FB-09	Total Recoverable	Water	EPA 6020B	413041
680-220481-15	GWA-3A	Total Recoverable	Water	EPA 6020B	413041
680-220481-16	GWC-2	Total Recoverable	Water	EPA 6020B	413041
680-220481-17	GWC-4A	Total Recoverable	Water	EPA 6020B	413041
680-220481-18	EB-12	Total Recoverable	Water	EPA 6020B	413041
680-220481-19	GWC-5A	Total Recoverable	Water	EPA 6020B	413041
680-220481-20	GWC-6A	Total Recoverable	Water	EPA 6020B	413041
680-220481-21	GWC-5	Total Recoverable	Water	EPA 6020B	413041
MB 180-413041/1-A	Method Blank	Total Recoverable	Water	EPA 6020B	413041
LCS 180-413041/2-A	Lab Control Sample	Total Recoverable	Water	EPA 6020B	413041
680-220258-E-3-B MS	Matrix Spike	Total Recoverable	Water	EPA 6020B	413041
680-220258-E-3-C MSD	Matrix Spike Duplicate	Total Recoverable	Water	EPA 6020B	413041

Analysis Batch: 413758

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-220481-13	GWA-4	Total Recoverable	Water	EPA 6020B	413041
680-220481-14	FB-09	Total Recoverable	Water	EPA 6020B	413041
680-220481-15	GWA-3A	Total Recoverable	Water	EPA 6020B	413041
680-220481-16	GWC-2	Total Recoverable	Water	EPA 6020B	413041
680-220481-17	GWC-4A	Total Recoverable	Water	EPA 6020B	413041
680-220481-18	EB-12	Total Recoverable	Water	EPA 6020B	413041
680-220481-19	GWC-5A	Total Recoverable	Water	EPA 6020B	413041
680-220481-20	GWC-6A	Total Recoverable	Water	EPA 6020B	413041
680-220481-21	GWC-5	Total Recoverable	Water	EPA 6020B	413041
MB 180-413041/1-A	Method Blank	Total Recoverable	Water	EPA 6020B	413041

Eurofins Savannah

QC Association Summary

Client: Southern Company
Project/Site: Plant McIntosh Landfill #3

Job ID: 680-220481-1

Metals (Continued)

Analysis Batch: 413758 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
LCS 180-413041/2-A	Lab Control Sample	Total Recoverable	Water	EPA 6020B	413041

Prep Batch: 414497

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-220481-13	GWA-4	Total Recoverable	Water	3005A	
680-220481-14	FB-09	Total Recoverable	Water	3005A	
680-220481-15	GWA-3A	Total Recoverable	Water	3005A	
680-220481-16	GWC-2	Total Recoverable	Water	3005A	
680-220481-17	GWC-4A	Total Recoverable	Water	3005A	
680-220481-18	EB-12	Total Recoverable	Water	3005A	
680-220481-19	GWC-5A	Total Recoverable	Water	3005A	
680-220481-20	GWC-6A	Total Recoverable	Water	3005A	
680-220481-21	GWC-5	Total Recoverable	Water	3005A	
MB 180-414497/1-A	Method Blank	Total Recoverable	Water	3005A	
LCS 180-414497/2-A	Lab Control Sample	Total Recoverable	Water	3005A	

Analysis Batch: 414527

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-220481-1	GWA-7A	Total Recoverable	Water	EPA 6020B	413001
680-220481-2	GWA-1B	Total Recoverable	Water	EPA 6020B	413001
680-220481-3	GWA-1A	Total Recoverable	Water	EPA 6020B	413001
680-220481-4	GWA-2B	Total Recoverable	Water	EPA 6020B	413001
MB 180-413001/1-A	Method Blank	Total Recoverable	Water	EPA 6020B	413001
LCS 180-413001/2-A	Lab Control Sample	Total Recoverable	Water	EPA 6020B	413001
680-220434-G-1-C MS	Matrix Spike	Total Recoverable	Water	EPA 6020B	413001
680-220434-G-1-D MSD	Matrix Spike Duplicate	Total Recoverable	Water	EPA 6020B	413001

Analysis Batch: 414650

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-220481-1	GWA-7A	Total Recoverable	Water	EPA 6020B	413001
680-220481-2	GWA-1B	Total Recoverable	Water	EPA 6020B	413001
680-220481-3	GWA-1A	Total Recoverable	Water	EPA 6020B	413001
680-220481-4	GWA-2B	Total Recoverable	Water	EPA 6020B	413001
680-220481-5	GWC-1A	Total Recoverable	Water	EPA 6020B	413001
680-220481-6	GWC-1	Total Recoverable	Water	EPA 6020B	413001
680-220481-7	GWC-6	Total Recoverable	Water	EPA 6020B	413001
680-220481-8	FD-06	Total Recoverable	Water	EPA 6020B	413001
680-220481-9	FB-10	Total Recoverable	Water	EPA 6020B	413001
680-220481-10	EB-11	Total Recoverable	Water	EPA 6020B	413001
680-220481-11	FD-05	Total Recoverable	Water	EPA 6020B	413001
680-220481-12	GWA-5	Total Recoverable	Water	EPA 6020B	413001
MB 180-413001/1-A	Method Blank	Total Recoverable	Water	EPA 6020B	413001
LCS 180-413001/2-A	Lab Control Sample	Total Recoverable	Water	EPA 6020B	413001
680-220434-G-1-C MS	Matrix Spike	Total Recoverable	Water	EPA 6020B	413001
680-220434-G-1-D MSD	Matrix Spike Duplicate	Total Recoverable	Water	EPA 6020B	413001

Analysis Batch: 414780

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-220481-13	GWA-4	Total Recoverable	Water	EPA 6020B	414497
680-220481-14	FB-09	Total Recoverable	Water	EPA 6020B	414497
680-220481-15	GWA-3A	Total Recoverable	Water	EPA 6020B	414497

Eurofins Savannah

QC Association Summary

Client: Southern Company
Project/Site: Plant McIntosh Landfill #3

Job ID: 680-220481-1

Metals (Continued)

Analysis Batch: 414780 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-220481-16	GWC-2	Total Recoverable	Water	EPA 6020B	414497
680-220481-17	GWC-4A	Total Recoverable	Water	EPA 6020B	414497
680-220481-18	EB-12	Total Recoverable	Water	EPA 6020B	414497
680-220481-19	GWC-5A	Total Recoverable	Water	EPA 6020B	414497
680-220481-20	GWC-6A	Total Recoverable	Water	EPA 6020B	414497
680-220481-21	GWC-5	Total Recoverable	Water	EPA 6020B	414497
MB 180-414497/1-A	Method Blank	Total Recoverable	Water	EPA 6020B	414497
LCS 180-414497/2-A	Lab Control Sample	Total Recoverable	Water	EPA 6020B	414497

Prep Batch: 415539

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-220481-1	GWA-7A	Total Recoverable	Water	3005A	
680-220481-2	GWA-1B	Total Recoverable	Water	3005A	
680-220481-3	GWA-1A	Total Recoverable	Water	3005A	
680-220481-4	GWA-2B	Total Recoverable	Water	3005A	
680-220481-5	GWC-1A	Total Recoverable	Water	3005A	
680-220481-6	GWC-1	Total Recoverable	Water	3005A	
680-220481-7	GWC-6	Total Recoverable	Water	3005A	
680-220481-8	FD-06	Total Recoverable	Water	3005A	
680-220481-9	FB-10	Total Recoverable	Water	3005A	
680-220481-10	EB-11	Total Recoverable	Water	3005A	
680-220481-11	FD-05	Total Recoverable	Water	3005A	
680-220481-12	GWA-5	Total Recoverable	Water	3005A	
MB 180-415539/1-A	Method Blank	Total Recoverable	Water	3005A	
LCS 180-415539/2-A	Lab Control Sample	Total Recoverable	Water	3005A	
680-220434-G-6-D MS	Matrix Spike	Total Recoverable	Water	3005A	
680-220434-G-6-E MSD	Matrix Spike Duplicate	Total Recoverable	Water	3005A	

Analysis Batch: 415759

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-220481-1	GWA-7A	Total Recoverable	Water	EPA 6020B	415539
680-220481-2	GWA-1B	Total Recoverable	Water	EPA 6020B	415539
680-220481-3	GWA-1A	Total Recoverable	Water	EPA 6020B	415539
680-220481-4	GWA-2B	Total Recoverable	Water	EPA 6020B	415539
680-220481-5	GWC-1A	Total Recoverable	Water	EPA 6020B	415539
680-220481-6	GWC-1	Total Recoverable	Water	EPA 6020B	415539
680-220481-7	GWC-6	Total Recoverable	Water	EPA 6020B	415539
680-220481-8	FD-06	Total Recoverable	Water	EPA 6020B	415539
680-220481-9	FB-10	Total Recoverable	Water	EPA 6020B	415539
680-220481-10	EB-11	Total Recoverable	Water	EPA 6020B	415539
680-220481-11	FD-05	Total Recoverable	Water	EPA 6020B	415539
680-220481-12	GWA-5	Total Recoverable	Water	EPA 6020B	415539
MB 180-415539/1-A	Method Blank	Total Recoverable	Water	EPA 6020B	415539
LCS 180-415539/2-A	Lab Control Sample	Total Recoverable	Water	EPA 6020B	415539
680-220434-G-6-D MS	Matrix Spike	Total Recoverable	Water	EPA 6020B	415539
680-220434-G-6-E MSD	Matrix Spike Duplicate	Total Recoverable	Water	EPA 6020B	415539

Prep Batch: 738607

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-220481-1	GWA-7A	Total Recoverable	Water	3005A	
680-220481-2	GWA-1B	Total Recoverable	Water	3005A	

Eurofins Savannah

QC Association Summary

Client: Southern Company
Project/Site: Plant McIntosh Landfill #3

Job ID: 680-220481-1

Metals (Continued)

Prep Batch: 738607 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-220481-3	GWA-1A	Total Recoverable	Water	3005A	
680-220481-4	GWA-2B	Total Recoverable	Water	3005A	
680-220481-5	GWC-1A	Total Recoverable	Water	3005A	
680-220481-7	GWC-6	Total Recoverable	Water	3005A	
680-220481-8	FD-06	Total Recoverable	Water	3005A	
680-220481-9	FB-10	Total Recoverable	Water	3005A	
680-220481-10	EB-11	Total Recoverable	Water	3005A	
680-220481-11	FD-05	Total Recoverable	Water	3005A	
680-220481-12	GWA-5	Total Recoverable	Water	3005A	
680-220481-13	GWA-4	Total Recoverable	Water	3005A	
680-220481-14	FB-09	Total Recoverable	Water	3005A	
680-220481-15	GWA-3A	Total Recoverable	Water	3005A	
680-220481-16	GWC-2	Total Recoverable	Water	3005A	
680-220481-17	GWC-4A	Total Recoverable	Water	3005A	
680-220481-18	EB-12	Total Recoverable	Water	3005A	
680-220481-19	GWC-5A	Total Recoverable	Water	3005A	
MB 680-738607/1-A	Method Blank	Total Recoverable	Water	3005A	
LCS 680-738607/2-A	Lab Control Sample	Total Recoverable	Water	3005A	
680-220481-1 MS	GWA-7A	Total Recoverable	Water	3005A	
680-220481-1 MSD	GWA-7A	Total Recoverable	Water	3005A	

Prep Batch: 738753

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-220481-20	GWC-6A	Total Recoverable	Water	3005A	
680-220481-21	GWC-5	Total Recoverable	Water	3005A	
MB 680-738753/1-A	Method Blank	Total Recoverable	Water	3005A	
LCS 680-738753/2-A	Lab Control Sample	Total Recoverable	Water	3005A	
680-220470-A-3-H MS	Matrix Spike	Total Recoverable	Water	3005A	
680-220470-A-3-I MSD	Matrix Spike Duplicate	Total Recoverable	Water	3005A	

Prep Batch: 739049

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-220481-6	GWC-1	Total Recoverable	Water	3005A	
MB 680-739049/1-A	Method Blank	Total Recoverable	Water	3005A	
LCS 680-739049/2-A	Lab Control Sample	Total Recoverable	Water	3005A	
660-123324-C-1-E MS	Matrix Spike	Total Recoverable	Water	3005A	
660-123324-C-1-F MSD	Matrix Spike Duplicate	Total Recoverable	Water	3005A	

Analysis Batch: 739233

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-220481-6	GWC-1	Total Recoverable	Water	6020B	739049
680-220481-20	GWC-6A	Total Recoverable	Water	6020B	738753
680-220481-21	GWC-5	Total Recoverable	Water	6020B	738753
MB 680-738753/1-A	Method Blank	Total Recoverable	Water	6020B	738753
MB 680-739049/1-A	Method Blank	Total Recoverable	Water	6020B	739049
LCS 680-738753/2-A	Lab Control Sample	Total Recoverable	Water	6020B	738753
LCS 680-739049/2-A	Lab Control Sample	Total Recoverable	Water	6020B	739049
660-123324-C-1-E MS	Matrix Spike	Total Recoverable	Water	6020B	739049
660-123324-C-1-F MSD	Matrix Spike Duplicate	Total Recoverable	Water	6020B	739049
680-220470-A-3-H MS	Matrix Spike	Total Recoverable	Water	6020B	738753
680-220470-A-3-I MSD	Matrix Spike Duplicate	Total Recoverable	Water	6020B	738753

Eurofins Savannah

QC Association Summary

Client: Southern Company
Project/Site: Plant McIntosh Landfill #3

Job ID: 680-220481-1

Metals

Analysis Batch: 739706

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-220481-1	GWA-7A	Total Recoverable	Water	6020B	738607
680-220481-2	GWA-1B	Total Recoverable	Water	6020B	738607
680-220481-3	GWA-1A	Total Recoverable	Water	6020B	738607
680-220481-4	GWA-2B	Total Recoverable	Water	6020B	738607
680-220481-5	GWC-1A	Total Recoverable	Water	6020B	738607
680-220481-7	GWC-6	Total Recoverable	Water	6020B	738607
680-220481-8	FD-06	Total Recoverable	Water	6020B	738607
680-220481-9	FB-10	Total Recoverable	Water	6020B	738607
680-220481-10	EB-11	Total Recoverable	Water	6020B	738607
680-220481-11	FD-05	Total Recoverable	Water	6020B	738607
680-220481-12	GWA-5	Total Recoverable	Water	6020B	738607
680-220481-13	GWA-4	Total Recoverable	Water	6020B	738607
680-220481-14	FB-09	Total Recoverable	Water	6020B	738607
680-220481-15	GWA-3A	Total Recoverable	Water	6020B	738607
680-220481-16	GWC-2	Total Recoverable	Water	6020B	738607
680-220481-17	GWC-4A	Total Recoverable	Water	6020B	738607
680-220481-18	EB-12	Total Recoverable	Water	6020B	738607
680-220481-19	GWC-5A	Total Recoverable	Water	6020B	738607
MB 680-738607/1-A	Method Blank	Total Recoverable	Water	6020B	738607
LCS 680-738607/2-A	Lab Control Sample	Total Recoverable	Water	6020B	738607
680-220481-1 MS	GWA-7A	Total Recoverable	Water	6020B	738607
680-220481-1 MSD	GWA-7A	Total Recoverable	Water	6020B	738607

General Chemistry

Analysis Batch: 738697

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-220481-1	GWA-7A	Total/NA	Water	2540C-2011	
680-220481-2	GWA-1B	Total/NA	Water	2540C-2011	
680-220481-3	GWA-1A	Total/NA	Water	2540C-2011	
680-220481-4	GWA-2B	Total/NA	Water	2540C-2011	
680-220481-5	GWC-1A	Total/NA	Water	2540C-2011	
680-220481-6	GWC-1	Total/NA	Water	2540C-2011	
680-220481-7	GWC-6	Total/NA	Water	2540C-2011	
680-220481-8	FD-06	Total/NA	Water	2540C-2011	
680-220481-9	FB-10	Total/NA	Water	2540C-2011	
680-220481-10	EB-11	Total/NA	Water	2540C-2011	
680-220481-11	FD-05	Total/NA	Water	2540C-2011	
680-220481-12	GWA-5	Total/NA	Water	2540C-2011	
680-220481-13	GWA-4	Total/NA	Water	2540C-2011	
680-220481-14	FB-09	Total/NA	Water	2540C-2011	
680-220481-15	GWA-3A	Total/NA	Water	2540C-2011	
MB 680-738697/1	Method Blank	Total/NA	Water	2540C-2011	
LCS 680-738697/2	Lab Control Sample	Total/NA	Water	2540C-2011	
LCSD 680-738697/3	Lab Control Sample Dup	Total/NA	Water	2540C-2011	
680-220450-A-1 DU	Duplicate	Total/NA	Water	2540C-2011	
680-220453-A-1 DU	Duplicate	Total/NA	Water	2540C-2011	

Analysis Batch: 739048

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-220481-16	GWC-2	Total/NA	Water	2540C-2011	

Eurofins Savannah

QC Association Summary

Client: Southern Company
Project/Site: Plant McIntosh Landfill #3

Job ID: 680-220481-1

General Chemistry (Continued)

Analysis Batch: 739048 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-220481-17	GWC-4A	Total/NA	Water	2540C-2011	
680-220481-18	EB-12	Total/NA	Water	2540C-2011	
680-220481-19	GWC-5A	Total/NA	Water	2540C-2011	
680-220481-20	GWC-6A	Total/NA	Water	2540C-2011	
680-220481-21	GWC-5	Total/NA	Water	2540C-2011	
MB 680-739048/1	Method Blank	Total/NA	Water	2540C-2011	
LCS 680-739048/2	Lab Control Sample	Total/NA	Water	2540C-2011	
LCSD 680-739048/3	Lab Control Sample Dup	Total/NA	Water	2540C-2011	
680-220538-A-2 DU	Duplicate	Total/NA	Water	2540C-2011	

Field Service / Mobile Lab

Analysis Batch: 738915

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-220481-1	GWA-7A	Total/NA	Water	Field Sampling	
680-220481-2	GWA-1B	Total/NA	Water	Field Sampling	
680-220481-3	GWA-1A	Total/NA	Water	Field Sampling	
680-220481-4	GWA-2B	Total/NA	Water	Field Sampling	
680-220481-5	GWC-1A	Total/NA	Water	Field Sampling	
680-220481-6	GWC-1	Total/NA	Water	Field Sampling	
680-220481-7	GWC-6	Total/NA	Water	Field Sampling	
680-220481-12	GWA-5	Total/NA	Water	Field Sampling	
680-220481-13	GWA-4	Total/NA	Water	Field Sampling	
680-220481-15	GWA-3A	Total/NA	Water	Field Sampling	
680-220481-16	GWC-2	Total/NA	Water	Field Sampling	
680-220481-17	GWC-4A	Total/NA	Water	Field Sampling	
680-220481-19	GWC-5A	Total/NA	Water	Field Sampling	
680-220481-20	GWC-6A	Total/NA	Water	Field Sampling	
680-220481-21	GWC-5	Total/NA	Water	Field Sampling	

Lab Chronicle

Client: Southern Company
Project/Site: Plant McIntosh Landfill #3

Job ID: 680-220481-1

Client Sample ID: GWA-7A

Lab Sample ID: 680-220481-1

Date Collected: 08/30/22 11:20

Matrix: Water

Date Received: 09/01/22 11:48

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	300.0-1993 R2.1		1	5 mL	5 mL	739699	09/10/22 13:15	AF	EET SAV
Instrument ID: CICK										
Total Recoverable	Prep	3005A			50 mL	250 mL	738607	09/02/22 08:05	RR	EET SAV
Total Recoverable	Analysis	6020B		1			739706	09/10/22 04:23	BWR	EET SAV
Instrument ID: ICPMSC										
Total Recoverable	Prep	3005A			25 mL	25 mL	415539	10/19/22 12:05	HCY	EET PIT
Total Recoverable	Analysis	EPA 6020B		1			415759	10/20/22 14:27	RSK	EET PIT
Instrument ID: A										
Total Recoverable	Prep	3005A			25 mL	25 mL	413001	09/23/22 11:10	HCY	EET PIT
Total Recoverable	Analysis	EPA 6020B		1			414527	10/08/22 17:05	RSK	EET PIT
Instrument ID: DORY										
Total Recoverable	Prep	3005A			25 mL	25 mL	413001	09/23/22 11:10	HCY	EET PIT
Total Recoverable	Analysis	EPA 6020B		1			414650	10/09/22 10:10	RSK	EET PIT
Instrument ID: DORY										
Total/NA	Analysis	2540C-2011		1	200 mL	200 mL	738697	09/02/22 12:02	PG	EET SAV
Instrument ID: NOEQUIP										
Total/NA	Analysis	Field Sampling		1			738915	08/30/22 11:20	T1C	EET SAV
Instrument ID: NOEQUIP										

Client Sample ID: GWA-1B

Lab Sample ID: 680-220481-2

Date Collected: 08/30/22 12:40

Matrix: Water

Date Received: 09/01/22 11:48

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	300.0-1993 R2.1		1	5 mL	5 mL	739699	09/10/22 13:28	AF	EET SAV
Instrument ID: CICK										
Total Recoverable	Prep	3005A			50 mL	250 mL	738607	09/02/22 08:05	RR	EET SAV
Total Recoverable	Analysis	6020B		1			739706	09/10/22 04:34	BWR	EET SAV
Instrument ID: ICPMSC										
Total Recoverable	Prep	3005A			25 mL	25 mL	415539	10/19/22 12:05	HCY	EET PIT
Total Recoverable	Analysis	EPA 6020B		1			415759	10/20/22 14:31	RSK	EET PIT
Instrument ID: A										
Total Recoverable	Prep	3005A			25 mL	25 mL	413001	09/23/22 11:10	HCY	EET PIT
Total Recoverable	Analysis	EPA 6020B		1			414527	10/08/22 17:08	RSK	EET PIT
Instrument ID: DORY										
Total Recoverable	Prep	3005A			25 mL	25 mL	413001	09/23/22 11:10	HCY	EET PIT
Total Recoverable	Analysis	EPA 6020B		1			414650	10/09/22 10:13	RSK	EET PIT
Instrument ID: DORY										
Total/NA	Analysis	2540C-2011		1	200 mL	200 mL	738697	09/02/22 12:02	PG	EET SAV
Instrument ID: NOEQUIP										
Total/NA	Analysis	Field Sampling		1			738915	08/30/22 12:40	T1C	EET SAV
Instrument ID: NOEQUIP										

Eurofins Savannah

Lab Chronicle

Client: Southern Company
Project/Site: Plant McIntosh Landfill #3

Job ID: 680-220481-1

Client Sample ID: GWA-1A

Date Collected: 08/30/22 13:30

Date Received: 09/01/22 11:48

Lab Sample ID: 680-220481-3

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	300.0-1993 R2.1		1	5 mL	5 mL	739699	09/10/22 13:41	AF	EET SAV
Instrument ID: CICK										
Total Recoverable	Prep	3005A			50 mL	250 mL	738607	09/02/22 08:05	RR	EET SAV
Total Recoverable	Analysis	6020B		1			739706	09/10/22 04:38	BWR	EET SAV
Instrument ID: ICPMSC										
Total Recoverable	Prep	3005A			25 mL	25 mL	415539	10/19/22 12:05	HCY	EET PIT
Total Recoverable	Analysis	EPA 6020B		1			415759	10/20/22 14:35	RSK	EET PIT
Instrument ID: A										
Total Recoverable	Prep	3005A			25 mL	25 mL	413001	09/23/22 11:10	HCY	EET PIT
Total Recoverable	Analysis	EPA 6020B		1			414527	10/08/22 17:12	RSK	EET PIT
Instrument ID: DORY										
Total Recoverable	Prep	3005A			25 mL	25 mL	413001	09/23/22 11:10	HCY	EET PIT
Total Recoverable	Analysis	EPA 6020B		1			414650	10/09/22 10:16	RSK	EET PIT
Instrument ID: DORY										
Total/NA	Analysis	2540C-2011		1	200 mL	200 mL	738697	09/02/22 12:02	PG	EET SAV
Instrument ID: NOEQUIP										
Total/NA	Analysis	Field Sampling		1			738915	08/30/22 13:30	T1C	EET SAV
Instrument ID: NOEQUIP										

Client Sample ID: GWA-2B

Date Collected: 08/30/22 14:50

Date Received: 09/01/22 11:48

Lab Sample ID: 680-220481-4

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	300.0-1993 R2.1		1	5 mL	5 mL	739699	09/10/22 13:53	AF	EET SAV
Instrument ID: CICK										
Total Recoverable	Prep	3005A			50 mL	250 mL	738607	09/02/22 08:05	RR	EET SAV
Total Recoverable	Analysis	6020B		1			739706	09/10/22 04:42	BWR	EET SAV
Instrument ID: ICPMSC										
Total Recoverable	Prep	3005A			25 mL	25 mL	415539	10/19/22 12:05	HCY	EET PIT
Total Recoverable	Analysis	EPA 6020B		1			415759	10/20/22 14:38	RSK	EET PIT
Instrument ID: A										
Total Recoverable	Prep	3005A			25 mL	25 mL	413001	09/23/22 11:10	HCY	EET PIT
Total Recoverable	Analysis	EPA 6020B		1			414527	10/08/22 17:15	RSK	EET PIT
Instrument ID: DORY										
Total Recoverable	Prep	3005A			25 mL	25 mL	413001	09/23/22 11:10	HCY	EET PIT
Total Recoverable	Analysis	EPA 6020B		1			414650	10/09/22 10:20	RSK	EET PIT
Instrument ID: DORY										
Total/NA	Analysis	2540C-2011		1	200 mL	200 mL	738697	09/02/22 12:02	PG	EET SAV
Instrument ID: NOEQUIP										
Total/NA	Analysis	Field Sampling		1			738915	08/30/22 14:50	T1C	EET SAV
Instrument ID: NOEQUIP										

Lab Chronicle

Client: Southern Company
 Project/Site: Plant McIntosh Landfill #3

Job ID: 680-220481-1

Client Sample ID: GWC-1A

Lab Sample ID: 680-220481-5

Date Collected: 08/30/22 16:00

Matrix: Water

Date Received: 09/01/22 11:48

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	300.0-1993 R2.1 Instrument ID: CICK		1	5 mL	5 mL	739699	09/10/22 14:06	AF	EET SAV
Total Recoverable	Prep	3005A			50 mL	250 mL	738607	09/02/22 08:05	RR	EET SAV
Total Recoverable	Analysis	6020B Instrument ID: ICPMSC		1			739706	09/10/22 04:45	BWR	EET SAV
Total Recoverable	Prep	3005A			25 mL	25 mL	415539	10/19/22 12:05	HCY	EET PIT
Total Recoverable	Analysis	EPA 6020B Instrument ID: A		1			415759	10/20/22 14:42	RSK	EET PIT
Total Recoverable	Prep	3005A			25 mL	25 mL	413001	09/23/22 11:10	HCY	EET PIT
Total Recoverable	Analysis	EPA 6020B Instrument ID: DORY		1			414650	10/09/22 10:30	RSK	EET PIT
Total/NA	Analysis	2540C-2011 Instrument ID: NOEQUIP		1	200 mL	200 mL	738697	09/02/22 12:02	PG	EET SAV
Total/NA	Analysis	Field Sampling Instrument ID: NOEQUIP		1			738915	08/30/22 16:00	T1C	EET SAV

Client Sample ID: GWC-1

Lab Sample ID: 680-220481-6

Date Collected: 08/31/22 09:55

Matrix: Water

Date Received: 09/01/22 11:48

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	300.0-1993 R2.1 Instrument ID: CICK		1	5 mL	5 mL	739699	09/10/22 14:19	AF	EET SAV
Total Recoverable	Prep	3005A			50 mL	250 mL	739049	09/02/22 12:09	RR	EET SAV
Total Recoverable	Analysis	6020B Instrument ID: ICPMSC		1			739233	09/06/22 21:29	BWR	EET SAV
Total Recoverable	Prep	3005A			25 mL	25 mL	415539	10/19/22 12:05	HCY	EET PIT
Total Recoverable	Analysis	EPA 6020B Instrument ID: A		1			415759	10/20/22 14:46	RSK	EET PIT
Total Recoverable	Prep	3005A			25 mL	25 mL	413001	09/23/22 11:10	HCY	EET PIT
Total Recoverable	Analysis	EPA 6020B Instrument ID: DORY		1			414650	10/09/22 10:33	RSK	EET PIT
Total/NA	Analysis	2540C-2011 Instrument ID: NOEQUIP		1	200 mL	200 mL	738697	09/02/22 12:02	PG	EET SAV
Total/NA	Analysis	Field Sampling Instrument ID: NOEQUIP		1			738915	08/31/22 09:55	T1C	EET SAV

Client Sample ID: GWC-6

Lab Sample ID: 680-220481-7

Date Collected: 08/31/22 11:35

Matrix: Water

Date Received: 09/01/22 11:48

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	300.0-1993 R2.1 Instrument ID: CICK		1	5 mL	5 mL	739699	09/10/22 14:31	AF	EET SAV

Eurofins Savannah

Lab Chronicle

Client: Southern Company
Project/Site: Plant McIntosh Landfill #3

Job ID: 680-220481-1

Client Sample ID: GWC-6

Lab Sample ID: 680-220481-7

Date Collected: 08/31/22 11:35

Matrix: Water

Date Received: 09/01/22 11:48

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total Recoverable	Prep	3005A			50 mL	250 mL	738607	09/02/22 08:05	RR	EET SAV
Total Recoverable	Analysis	6020B		1			739706	09/10/22 04:49	BWR	EET SAV
Instrument ID: ICPMSC										
Total Recoverable	Prep	3005A			25 mL	25 mL	415539	10/19/22 12:05	HCY	EET PIT
Total Recoverable	Analysis	EPA 6020B		1			415759	10/20/22 14:56	RSK	EET PIT
Instrument ID: A										
Total Recoverable	Prep	3005A			25 mL	25 mL	413001	09/23/22 11:10	HCY	EET PIT
Total Recoverable	Analysis	EPA 6020B		1			414650	10/09/22 10:36	RSK	EET PIT
Instrument ID: DORY										
Total/NA	Analysis	2540C-2011		1	200 mL	200 mL	738697	09/02/22 12:02	PG	EET SAV
Instrument ID: NOEQUIP										
Total/NA	Analysis	Field Sampling		1			738915	08/31/22 11:35	T1C	EET SAV
Instrument ID: NOEQUIP										

Client Sample ID: FD-06

Lab Sample ID: 680-220481-8

Date Collected: 08/31/22 00:00

Matrix: Water

Date Received: 09/01/22 11:48

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	300.0-1993 R2.1		1	5 mL	5 mL	739699	09/10/22 14:44	AF	EET SAV
Instrument ID: CICK										
Total Recoverable	Prep	3005A			50 mL	250 mL	738607	09/02/22 08:05	RR	EET SAV
Total Recoverable	Analysis	6020B		1			739706	09/10/22 05:00	BWR	EET SAV
Instrument ID: ICPMSC										
Total Recoverable	Prep	3005A			25 mL	25 mL	415539	10/19/22 12:05	HCY	EET PIT
Total Recoverable	Analysis	EPA 6020B		1			415759	10/20/22 15:00	RSK	EET PIT
Instrument ID: A										
Total Recoverable	Prep	3005A			25 mL	25 mL	413001	09/23/22 11:10	HCY	EET PIT
Total Recoverable	Analysis	EPA 6020B		1			414650	10/09/22 10:40	RSK	EET PIT
Instrument ID: DORY										
Total/NA	Analysis	2540C-2011		1	200 mL	200 mL	738697	09/02/22 12:02	PG	EET SAV
Instrument ID: NOEQUIP										

Client Sample ID: FB-10

Lab Sample ID: 680-220481-9

Date Collected: 08/31/22 09:45

Matrix: Water

Date Received: 09/01/22 11:48

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	300.0-1993 R2.1		1	5 mL	5 mL	739699	09/10/22 14:56	AF	EET SAV
Instrument ID: CICK										
Total Recoverable	Prep	3005A			50 mL	250 mL	738607	09/02/22 08:05	RR	EET SAV
Total Recoverable	Analysis	6020B		1			739706	09/10/22 05:04	BWR	EET SAV
Instrument ID: ICPMSC										
Total Recoverable	Prep	3005A			25 mL	25 mL	415539	10/19/22 12:05	HCY	EET PIT
Total Recoverable	Analysis	EPA 6020B		1			415759	10/20/22 15:04	RSK	EET PIT
Instrument ID: A										

Eurofins Savannah

Lab Chronicle

Client: Southern Company
Project/Site: Plant McIntosh Landfill #3

Job ID: 680-220481-1

Client Sample ID: FB-10

Lab Sample ID: 680-220481-9

Date Collected: 08/31/22 09:45

Matrix: Water

Date Received: 09/01/22 11:48

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total Recoverable	Prep	3005A			25 mL	25 mL	413001	09/23/22 11:10	HCY	EET PIT
Total Recoverable	Analysis	EPA 6020B		1			414650	10/09/22 10:43	RSK	EET PIT
		Instrument ID: DORY								
Total/NA	Analysis	2540C-2011		1	200 mL	200 mL	738697	09/02/22 12:02	PG	EET SAV
		Instrument ID: NOEQUIP								

Client Sample ID: EB-11

Lab Sample ID: 680-220481-10

Date Collected: 08/30/22 16:20

Matrix: Water

Date Received: 09/01/22 11:48

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	300.0-1993 R2.1		1	5 mL	5 mL	739699	09/10/22 17:13	AF	EET SAV
		Instrument ID: CICK								
Total Recoverable	Prep	3005A			50 mL	250 mL	738607	09/02/22 08:05	RR	EET SAV
Total Recoverable	Analysis	6020B		1			739706	09/10/22 05:08	BWR	EET SAV
		Instrument ID: ICPMSC								
Total Recoverable	Prep	3005A			25 mL	25 mL	415539	10/19/22 12:05	HCY	EET PIT
Total Recoverable	Analysis	EPA 6020B		1			415759	10/20/22 15:07	RSK	EET PIT
		Instrument ID: A								
Total Recoverable	Prep	3005A			25 mL	25 mL	413001	09/23/22 11:10	HCY	EET PIT
Total Recoverable	Analysis	EPA 6020B		1			414650	10/09/22 10:47	RSK	EET PIT
		Instrument ID: DORY								
Total/NA	Analysis	2540C-2011		1	200 mL	200 mL	738697	09/02/22 12:02	PG	EET SAV
		Instrument ID: NOEQUIP								

Client Sample ID: FD-05

Lab Sample ID: 680-220481-11

Date Collected: 08/30/22 00:00

Matrix: Water

Date Received: 09/01/22 11:48

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	300.0-1993 R2.1		1	5 mL	5 mL	739699	09/10/22 17:26	AF	EET SAV
		Instrument ID: CICK								
Total Recoverable	Prep	3005A			50 mL	250 mL	738607	09/02/22 08:05	RR	EET SAV
Total Recoverable	Analysis	6020B		1			739706	09/10/22 05:11	BWR	EET SAV
		Instrument ID: ICPMSC								
Total Recoverable	Prep	3005A			25 mL	25 mL	415539	10/19/22 12:05	HCY	EET PIT
Total Recoverable	Analysis	EPA 6020B		1			415759	10/20/22 15:11	RSK	EET PIT
		Instrument ID: A								
Total Recoverable	Prep	3005A			25 mL	25 mL	413001	09/23/22 11:10	HCY	EET PIT
Total Recoverable	Analysis	EPA 6020B		1			414650	10/09/22 10:50	RSK	EET PIT
		Instrument ID: DORY								
Total/NA	Analysis	2540C-2011		1	200 mL	200 mL	738697	09/02/22 12:02	PG	EET SAV
		Instrument ID: NOEQUIP								

Lab Chronicle

Client: Southern Company
Project/Site: Plant McIntosh Landfill #3

Job ID: 680-220481-1

Client Sample ID: GWA-5

Lab Sample ID: 680-220481-12

Date Collected: 08/30/22 10:33

Matrix: Water

Date Received: 09/01/22 11:48

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	300.0-1993 R2.1		1	5 mL	5 mL	739699	09/10/22 17:39	AF	EET SAV
Instrument ID: CICK										
Total Recoverable	Prep	3005A			50 mL	250 mL	738607	09/02/22 08:05	RR	EET SAV
Total Recoverable	Analysis	6020B		1			739706	09/10/22 05:15	BWR	EET SAV
Instrument ID: ICPMSC										
Total Recoverable	Prep	3005A			25 mL	25 mL	415539	10/19/22 12:05	HCY	EET PIT
Total Recoverable	Analysis	EPA 6020B		1			415759	10/20/22 15:15	RSK	EET PIT
Instrument ID: A										
Total Recoverable	Prep	3005A			25 mL	25 mL	413001	09/23/22 11:10	HCY	EET PIT
Total Recoverable	Analysis	EPA 6020B		1			414650	10/09/22 10:53	RSK	EET PIT
Instrument ID: DORY										
Total/NA	Analysis	2540C-2011		1	200 mL	200 mL	738697	09/02/22 12:02	PG	EET SAV
Instrument ID: NOEQUIP										
Total/NA	Analysis	Field Sampling		1			738915	08/30/22 10:33	T1C	EET SAV
Instrument ID: NOEQUIP										

Client Sample ID: GWA-4

Lab Sample ID: 680-220481-13

Date Collected: 08/30/22 11:35

Matrix: Water

Date Received: 09/01/22 11:48

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	300.0-1993 R2.1		1	5 mL	5 mL	739699	09/10/22 17:51	AF	EET SAV
Instrument ID: CICK										
Total Recoverable	Prep	3005A			50 mL	250 mL	738607	09/02/22 08:05	RR	EET SAV
Total Recoverable	Analysis	6020B		1			739706	09/10/22 05:19	BWR	EET SAV
Instrument ID: ICPMSC										
Total Recoverable	Prep	3005A			25 mL	25 mL	413041	09/23/22 14:25	HCY	EET PIT
Total Recoverable	Analysis	EPA 6020B		1			413603	09/28/22 19:19	RSK	EET PIT
Instrument ID: A										
Total Recoverable	Prep	3005A			25 mL	25 mL	414497	10/08/22 10:24	KWP	EET PIT
Total Recoverable	Analysis	EPA 6020B		1			414780	10/11/22 23:06	RSK	EET PIT
Instrument ID: DORY										
Total Recoverable	Prep	3005A			25 mL	25 mL	413041	09/23/22 14:25	HCY	EET PIT
Total Recoverable	Analysis	EPA 6020B		1			413758	09/30/22 09:45	RSK	EET PIT
Instrument ID: NEMO										
Total/NA	Analysis	2540C-2011		1	200 mL	200 mL	738697	09/02/22 12:02	PG	EET SAV
Instrument ID: NOEQUIP										
Total/NA	Analysis	Field Sampling		1			738915	08/30/22 11:35	T1C	EET SAV
Instrument ID: NOEQUIP										

Lab Chronicle

Client: Southern Company
 Project/Site: Plant McIntosh Landfill #3

Job ID: 680-220481-1

Client Sample ID: FB-09

Lab Sample ID: 680-220481-14

Date Collected: 08/30/22 13:25

Matrix: Water

Date Received: 09/01/22 11:48

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	300.0-1993 R2.1		1	5 mL	5 mL	739699	09/10/22 18:04	AF	EET SAV
Instrument ID: CICK										
Total Recoverable	Prep	3005A			50 mL	250 mL	738607	09/02/22 08:05	RR	EET SAV
Total Recoverable	Analysis	6020B		1			739706	09/10/22 05:22	BWR	EET SAV
Instrument ID: ICPMSC										
Total Recoverable	Prep	3005A			25 mL	25 mL	413041	09/23/22 14:25	HCY	EET PIT
Total Recoverable	Analysis	EPA 6020B		1			413603	09/28/22 19:23	RSK	EET PIT
Instrument ID: A										
Total Recoverable	Prep	3005A			25 mL	25 mL	414497	10/08/22 10:24	KWP	EET PIT
Total Recoverable	Analysis	EPA 6020B		1			414780	10/11/22 23:09	RSK	EET PIT
Instrument ID: DORY										
Total Recoverable	Prep	3005A			25 mL	25 mL	413041	09/23/22 14:25	HCY	EET PIT
Total Recoverable	Analysis	EPA 6020B		1			413758	09/30/22 09:48	RSK	EET PIT
Instrument ID: NEMO										
Total/NA	Analysis	2540C-2011		1	200 mL	200 mL	738697	09/02/22 12:02	PG	EET SAV
Instrument ID: NOEQUIP										

Client Sample ID: GWA-3A

Lab Sample ID: 680-220481-15

Date Collected: 08/30/22 13:47

Matrix: Water

Date Received: 09/01/22 11:48

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	300.0-1993 R2.1		1	5 mL	5 mL	739699	09/10/22 18:17	AF	EET SAV
Instrument ID: CICK										
Total Recoverable	Prep	3005A			50 mL	250 mL	738607	09/02/22 08:05	RR	EET SAV
Total Recoverable	Analysis	6020B		1			739706	09/10/22 05:26	BWR	EET SAV
Instrument ID: ICPMSC										
Total Recoverable	Prep	3005A			25 mL	25 mL	413041	09/23/22 14:25	HCY	EET PIT
Total Recoverable	Analysis	EPA 6020B		1			413603	09/28/22 19:26	RSK	EET PIT
Instrument ID: A										
Total Recoverable	Prep	3005A			25 mL	25 mL	414497	10/08/22 10:24	KWP	EET PIT
Total Recoverable	Analysis	EPA 6020B		1			414780	10/11/22 23:12	RSK	EET PIT
Instrument ID: DORY										
Total Recoverable	Prep	3005A			25 mL	25 mL	413041	09/23/22 14:25	HCY	EET PIT
Total Recoverable	Analysis	EPA 6020B		1			413758	09/30/22 09:51	RSK	EET PIT
Instrument ID: NEMO										
Total/NA	Analysis	2540C-2011		1	200 mL	200 mL	738697	09/02/22 12:02	PG	EET SAV
Instrument ID: NOEQUIP										
Total/NA	Analysis	Field Sampling		1			738915	08/30/22 13:47	T1C	EET SAV
Instrument ID: NOEQUIP										

Eurofins Savannah

Lab Chronicle

Client: Southern Company
 Project/Site: Plant McIntosh Landfill #3

Job ID: 680-220481-1

Client Sample ID: GWC-2
Date Collected: 08/30/22 14:53
Date Received: 09/01/22 11:48

Lab Sample ID: 680-220481-16
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	300.0-1993 R2.1		1	5 mL	5 mL	739699	09/10/22 18:29	AF	EET SAV
Instrument ID: CICK										
Total Recoverable	Prep	3005A			50 mL	250 mL	738607	09/02/22 08:05	RR	EET SAV
Total Recoverable	Analysis	6020B		1			739706	09/10/22 05:30	BWR	EET SAV
Instrument ID: ICPMSC										
Total Recoverable	Prep	3005A			25 mL	25 mL	413041	09/23/22 14:25	HCY	EET PIT
Total Recoverable	Analysis	EPA 6020B		1			413603	09/28/22 19:30	RSK	EET PIT
Instrument ID: A										
Total Recoverable	Prep	3005A			25 mL	25 mL	414497	10/08/22 10:24	KWP	EET PIT
Total Recoverable	Analysis	EPA 6020B		1			414780	10/11/22 23:16	RSK	EET PIT
Instrument ID: DORY										
Total Recoverable	Prep	3005A			25 mL	25 mL	413041	09/23/22 14:25	HCY	EET PIT
Total Recoverable	Analysis	EPA 6020B		1			413758	09/30/22 09:53	RSK	EET PIT
Instrument ID: NEMO										
Total/NA	Analysis	2540C-2011		1	200 mL	200 mL	739048	09/06/22 11:31	PG	EET SAV
Instrument ID: NOEQUIP										
Total/NA	Analysis	Field Sampling		1			738915	08/30/22 14:53	T1C	EET SAV
Instrument ID: NOEQUIP										

Client Sample ID: GWC-4A
Date Collected: 08/30/22 15:52
Date Received: 09/01/22 11:48

Lab Sample ID: 680-220481-17
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	300.0-1993 R2.1		1	5 mL	5 mL	739699	09/10/22 18:42	AF	EET SAV
Instrument ID: CICK										
Total Recoverable	Prep	3005A			50 mL	250 mL	738607	09/02/22 08:05	RR	EET SAV
Total Recoverable	Analysis	6020B		1			739706	09/10/22 05:33	BWR	EET SAV
Instrument ID: ICPMSC										
Total Recoverable	Prep	3005A			25 mL	25 mL	413041	09/23/22 14:25	HCY	EET PIT
Total Recoverable	Analysis	EPA 6020B		1			413603	09/28/22 19:34	RSK	EET PIT
Instrument ID: A										
Total Recoverable	Prep	3005A			25 mL	25 mL	414497	10/08/22 10:24	KWP	EET PIT
Total Recoverable	Analysis	EPA 6020B		1			414780	10/11/22 23:19	RSK	EET PIT
Instrument ID: DORY										
Total Recoverable	Prep	3005A			25 mL	25 mL	413041	09/23/22 14:25	HCY	EET PIT
Total Recoverable	Analysis	EPA 6020B		1			413758	09/30/22 09:56	RSK	EET PIT
Instrument ID: NEMO										
Total/NA	Analysis	2540C-2011		1	200 mL	200 mL	739048	09/06/22 11:31	PG	EET SAV
Instrument ID: NOEQUIP										
Total/NA	Analysis	Field Sampling		1			738915	08/30/22 15:52	T1C	EET SAV
Instrument ID: NOEQUIP										

Lab Chronicle

Client: Southern Company
 Project/Site: Plant McIntosh Landfill #3

Job ID: 680-220481-1

Client Sample ID: EB-12
Date Collected: 08/31/22 11:35
Date Received: 09/01/22 11:48

Lab Sample ID: 680-220481-18
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	300.0-1993 R2.1		1	5 mL	5 mL	739220	09/07/22 13:44	OK	EET SAV
Instrument ID: CICK										
Total Recoverable	Prep	3005A			50 mL	250 mL	738607	09/02/22 08:05	RR	EET SAV
Total Recoverable	Analysis	6020B		1			739706	09/10/22 05:45	BWR	EET SAV
Instrument ID: ICPMSC										
Total Recoverable	Prep	3005A			25 mL	25 mL	413041	09/23/22 14:25	HCY	EET PIT
Total Recoverable	Analysis	EPA 6020B		1			413603	09/28/22 19:37	RSK	EET PIT
Instrument ID: A										
Total Recoverable	Prep	3005A			25 mL	25 mL	414497	10/08/22 10:24	KWP	EET PIT
Total Recoverable	Analysis	EPA 6020B		1			414780	10/11/22 23:22	RSK	EET PIT
Instrument ID: DORY										
Total Recoverable	Prep	3005A			25 mL	25 mL	413041	09/23/22 14:25	HCY	EET PIT
Total Recoverable	Analysis	EPA 6020B		1			413758	09/30/22 09:59	RSK	EET PIT
Instrument ID: NEMO										
Total/NA	Analysis	2540C-2011		1	200 mL	200 mL	739048	09/06/22 11:31	PG	EET SAV
Instrument ID: NOEQUIP										

Client Sample ID: GWC-5A
Date Collected: 08/31/22 11:40
Date Received: 09/01/22 11:48

Lab Sample ID: 680-220481-19
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	300.0-1993 R2.1		1	5 mL	5 mL	739220	09/07/22 13:57	OK	EET SAV
Instrument ID: CICK										
Total Recoverable	Prep	3005A			50 mL	250 mL	738607	09/02/22 08:05	RR	EET SAV
Total Recoverable	Analysis	6020B		1			739706	09/10/22 05:48	BWR	EET SAV
Instrument ID: ICPMSC										
Total Recoverable	Prep	3005A			25 mL	25 mL	413041	09/23/22 14:25	HCY	EET PIT
Total Recoverable	Analysis	EPA 6020B		1			413603	09/28/22 19:41	RSK	EET PIT
Instrument ID: A										
Total Recoverable	Prep	3005A			25 mL	25 mL	414497	10/08/22 10:24	KWP	EET PIT
Total Recoverable	Analysis	EPA 6020B		1			414780	10/11/22 23:32	RSK	EET PIT
Instrument ID: DORY										
Total Recoverable	Prep	3005A			25 mL	25 mL	413041	09/23/22 14:25	HCY	EET PIT
Total Recoverable	Analysis	EPA 6020B		1			413758	09/30/22 10:02	RSK	EET PIT
Instrument ID: NEMO										
Total/NA	Analysis	2540C-2011		1	200 mL	200 mL	739048	09/06/22 11:31	PG	EET SAV
Instrument ID: NOEQUIP										
Total/NA	Analysis	Field Sampling		1			738915	08/31/22 11:40	T1C	EET SAV
Instrument ID: NOEQUIP										

Lab Chronicle

Client: Southern Company
Project/Site: Plant McIntosh Landfill #3

Job ID: 680-220481-1

Client Sample ID: GWC-6A

Lab Sample ID: 680-220481-20

Date Collected: 08/31/22 12:35

Matrix: Water

Date Received: 09/01/22 11:48

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	300.0-1993 R2.1		1	5 mL	5 mL	739220	09/07/22 14:10	OK	EET SAV
Instrument ID: CICK										
Total Recoverable	Prep	3005A			50 mL	250 mL	738753	09/02/22 08:10	RR	EET SAV
Total Recoverable	Analysis	6020B		1			739233	09/06/22 18:41	BWR	EET SAV
Instrument ID: ICPMSC										
Total Recoverable	Prep	3005A			25 mL	25 mL	413041	09/23/22 14:25	HCY	EET PIT
Total Recoverable	Analysis	EPA 6020B		1			413603	09/28/22 19:52	RSK	EET PIT
Instrument ID: A										
Total Recoverable	Prep	3005A			25 mL	25 mL	414497	10/08/22 10:24	KWP	EET PIT
Total Recoverable	Analysis	EPA 6020B		1			414780	10/11/22 23:36	RSK	EET PIT
Instrument ID: DORY										
Total Recoverable	Prep	3005A			25 mL	25 mL	413041	09/23/22 14:25	HCY	EET PIT
Total Recoverable	Analysis	EPA 6020B		1			413758	09/30/22 10:05	RSK	EET PIT
Instrument ID: NEMO										
Total/NA	Analysis	2540C-2011		1	200 mL	200 mL	739048	09/06/22 11:31	PG	EET SAV
Instrument ID: NOEQUIP										
Total/NA	Analysis	Field Sampling		1			738915	08/31/22 12:35	T1C	EET SAV
Instrument ID: NOEQUIP										

Client Sample ID: GWC-5

Lab Sample ID: 680-220481-21

Date Collected: 09/01/22 10:00

Matrix: Water

Date Received: 09/01/22 11:48

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	300.0-1993 R2.1		1	5 mL	5 mL	739220	09/07/22 14:22	OK	EET SAV
Instrument ID: CICK										
Total Recoverable	Prep	3005A			50 mL	250 mL	738753	09/02/22 08:10	RR	EET SAV
Total Recoverable	Analysis	6020B		1			739233	09/06/22 18:45	BWR	EET SAV
Instrument ID: ICPMSC										
Total Recoverable	Prep	3005A			25 mL	25 mL	413041	09/23/22 14:25	HCY	EET PIT
Total Recoverable	Analysis	EPA 6020B		1			413603	09/28/22 19:55	RSK	EET PIT
Instrument ID: A										
Total Recoverable	Prep	3005A			25 mL	25 mL	414497	10/08/22 10:24	KWP	EET PIT
Total Recoverable	Analysis	EPA 6020B		1			414780	10/11/22 23:39	RSK	EET PIT
Instrument ID: DORY										
Total Recoverable	Prep	3005A			25 mL	25 mL	413041	09/23/22 14:25	HCY	EET PIT
Total Recoverable	Analysis	EPA 6020B		1			413758	09/30/22 10:13	RSK	EET PIT
Instrument ID: NEMO										
Total/NA	Analysis	2540C-2011		1	200 mL	200 mL	739048	09/06/22 11:31	PG	EET SAV
Instrument ID: NOEQUIP										
Total/NA	Analysis	Field Sampling		1			738915	09/01/22 10:00	T1C	EET SAV
Instrument ID: NOEQUIP										

Laboratory References:

EET PIT = Eurofins Pittsburgh, 301 Alpha Drive, RIDC Park, Pittsburgh, PA 15238, TEL (412)963-7058

EET SAV = Eurofins Savannah, 5102 LaRoche Avenue, Savannah, GA 31404, TEL (912)354-7858

Eurofins Savannah

Accreditation/Certification Summary

Client: Southern Company
Project/Site: Plant McIntosh Landfill #3

Job ID: 680-220481-1

Laboratory: Eurofins Savannah

The accreditations/certifications listed below are applicable to this report.

Authority	Program	Identification Number	Expiration Date
Florida	NELAP	E87052	09-14-22
Georgia	State	E87052	06-30-23

Laboratory: Eurofins Pittsburgh

The accreditations/certifications listed below are applicable to this report.

Authority	Program	Identification Number	Expiration Date
Georgia	State	PA 02-00416	10-23-22
Pennsylvania	NELAP	02-00416	10-23-22

- 1
- 2
- 3
- 4
- 5
- 6
- 7
- 8
- 9
- 10
- 11
- 12

Method Summary

Client: Southern Company
Project/Site: Plant McIntosh Landfill #3

Job ID: 680-220481-1

Method	Method Description	Protocol	Laboratory
300.0-1993 R2.1	Anions, Ion Chromatography	MCAWW	EET SAV
6020B	Metals (ICP/MS)	SW846	EET SAV
EPA 6020B	Metals (ICP/MS)	SW846	EET PIT
2540C-2011	Total Dissolved Solids (Dried at 180 °C)	SM	EET SAV
Field Sampling	Field Sampling	EPA	EET SAV
3005A	Preparation, Total Recoverable or Dissolved Metals	SW846	EET PIT
3005A	Preparation, Total Recoverable or Dissolved Metals	SW846	EET SAV

Protocol References:

EPA = US Environmental Protection Agency

MCAWW = "Methods For Chemical Analysis Of Water And Wastes", EPA-600/4-79-020, March 1983 And Subsequent Revisions.

SM = "Standard Methods For The Examination Of Water And Wastewater"

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

Laboratory References:

EET PIT = Eurofins Pittsburgh, 301 Alpha Drive, RIDC Park, Pittsburgh, PA 15238, TEL (412)963-7058

EET SAV = Eurofins Savannah, 5102 LaRoche Avenue, Savannah, GA 31404, TEL (912)354-7858

Chain of Custody Record

Client Information		Sampler: <u>Anna Schnitzker</u>		Lab PM: <u>Fuller, David</u>		Carrier Tracking No(s)		COC No.	
Client Contact: <u>SCS Contacts</u>		Phone: <u>770 594 5998</u>		E-Mail: <u>david.fuller@et.euromins.com</u>				Page: <u>1 of 2</u>	
Company: <u>GA Power</u>		Due Date Requested		Analysis Requested				Job #:	
Address: <u>241 Ralph McGill Blvd SE</u>		TAT Requested (days):						Preservation Codes: A - HCL B - NaOH C - Zn Acetate D - Nitric Acid E - NaHSO4 F - MeOH G - Amchlor H - Ascorbic Acid I - Ice J - DI Water K - EDTA L - EDA Other:	
City: <u>Atlanta</u>		Lab Project #: <u>68027732</u>						M - Hexane N - None O - AsNaO2 P - Na2O4S Q - Na2SO3 R - Na2SO3 S - H2SO4 T - TSP Dodecahydrate U - Acetone V - MCAA W - pH 4-5 Z - other (specify)	
State, Zip: <u>GA, 30308</u>		PO #:						Special Instructions/Note: <u>APP III plus 8 State Metals</u>	
Phone: <u>404-506-7116(Tel)</u>		Project #:						Total Number of Containers	
Email: <u>SCS Contacts / ACC Contacts</u>		SSOW#:						3 pH = 5.00	
Project Name: <u>Plant McIntosh Landfill 3</u>		Sample Date (mm/dd/yy)		Sample Time (hhmm)		Sample Type (C=Comp, G=grab)		3 pH = 5.86	
Site: <u>Georgia</u>		08/30/22		1120		G		3 pH = 5.01	
		08/30/22		1240		G		3 pH = 4.90	
		08/30/22		1330		G		3 pH = 4.43	
		08/30/22		1450		G		3 pH = 4.69	
		08/30/22		1600		G		3 pH = 4.85	
		08/31/22		0955		G		3 pH = NA	
		08/31/22		1135		G		3 pH = NA	
		08/31/22		---		G		3 pH = NA	
		08/31/22		0945		G		3 pH = NA	
		08/30/22		1620		G		3 pH = NA	
		08/30/22		---		G		3 pH = NA	

Sample Identification		Field Filtered Sample (Yes or No)		Perform MS/MSD (Yes or No)		APP III Metals: B,Ca		CI F SO ₄ & TDS (EPA 300.0 & SM 2540C)		Custom State & Permit Metals (EPA 6020)		Bb Bc Cd Cu Pb V Zn	
GWA-7A		N		N		✓		✓		✓		✓	
GWA-1B		N		N		✓		✓		✓		✓	
GWA-1A		N		N		✓		✓		✓		✓	
GWA-2B		N		N		✓		✓		✓		✓	
GWC-1A		N		N		✓		✓		✓		✓	
GWC-1		N		N		✓		✓		✓		✓	
GWC-6		N		N		✓		✓		✓		✓	
FD-06		N		N		✓		✓		✓		✓	
FB-10		N		N		✓		✓		✓		✓	
EB-11		N		N		✓		✓		✓		✓	
FD-05		N		N		✓		✓		✓		✓	

860-220481 Chain of Custody

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
 Return To Client Disposal By Lab Archive For _____ Months

Special Instructions/QC Requirements: State Permit Metals barium beryllium, chromium cobalt, copper lead, vanadium, zinc

Empty Kit Relinquished by		Date:		Time:		Method of Shipment:	
Relinquished by: <u>[Signature]</u>		9/1/22		1148		Company: <u>ACC</u>	
Relinquished by:						Company:	
Relinquished by:						Company:	
Custody Seals Intact: <u>Δ Yes Δ No</u>		Custody Seal No		Cooler Temperature(s) °C and Other Remarks: <u>2.3/2.2</u>		4.1/4.0	



Chain of Custody Record

Client Information Client Contact: Hunter Auld + Anna Hiller SCS Contacts Phone: 770-594-5998 E-Mail: david.fuller@eurofins.com		Lab PM Fuller David E-Mail: david.fuller@eurofins.com		Carrier Tracking No(s): Job #: 2 of 2	
Due Date Requested: TAT Requested (days): Lab Project #: 68027732 PO #:		Analysis Requested		Preservation Codes: A - HCL B - NaOH C - Zn Acetate D - Nitric Acid E - NaHSO4 F - MeOH G - Amchlor H - Ascorbic Acid I - Ice J - DI Water K - EDTA L - EDA Other:	
Address: 241 Ralph McGill Blvd SE City: Atlanta State, Zip: GA, 30308 Phone: 404-506-7116(Tel) Email: SCS Contacts / ACC Contacts Project Name: Plant McIntosh Landfill 3 Site: Georgia		Field Filtered Sample (Yes or No) Perform MS/MSD (Yes or No) APF III Metals: B, Ca CF F SO4 & TDS EPA 300.0 & SM 2540C Custom State 8 Permit Metals (EPA 6020) B, Be, Cr, Co, Cu, Pb, V, Zn		Special Instructions/Note: APP III plus 8 State Metals	
Sample Identification Sample ID: GWA-5 GWA-4 FB-09 GWA-3A GWC-2 GWC-4A Eb-12 GWC-5A GWC-6A GWC-5		Sample Date (mm/dd/yy) Sample Time (hh:mm) Sample Type (C=comp, G=grab) Matrix (WC=ground water, WS=surface water, WC=quality control)		Total Number of Containers pH = 4.51 pH = 4.72 pH = NA pH = 4.71 pH = 4.96 pH = 4.71 pH = NA pH = 4.97 pH = 5.07 pH = 4.29 pH =	
Possible Hazard Identification <input type="checkbox"/> Non-Hazard <input type="checkbox"/> Flammable <input type="checkbox"/> Skin Irritant <input type="checkbox"/> Poison B <input type="checkbox"/> Unknown <input type="checkbox"/> Radiological		Sample Disposal (A fee may be assessed if samples are retained longer than 1 month) <input type="checkbox"/> Return To Client <input type="checkbox"/> Disposal By Lab <input type="checkbox"/> Archive For Months		Special Instructions/QC Requirements: State Permit Metals barium beryllium chromium, cobalt, copper lead, vanadium, zinc	
Empty Kit Relinquished by: Relinquished by: [Signature] Relinquished by: Relinquished by:		Date: 9/1/22 1148 Date/Time: Date/Time: Date/Time:		Method of Shipment: Received by: [Signature] Date/Time: 9/1/22 1148 Company: NA Received by: Date/Time: Company: Received by: Date/Time: Company:	
Custody Seals Intact: A Yes Δ No		Cooler Temperature(s) °C and Other Remarks:		Ver 8/8/2019	



- 1
- 2
- 3
- 4
- 5
- 6
- 7
- 8
- 9
- 10
- 11
- 12

RT **98**

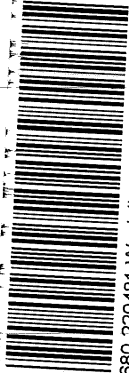
1
10:30

A

FZ

8702
09.08

Σ®



680-220481 Waybill

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

ORIGIN ID:SAVA (912) 354-7858
SHIPPING
EUROFINS/TESTAMERICA
5102 LA ROUCHE AVE

SHIP DATE: 07SEP22
ACTWGT: 25.00 LB MAN
CAD: 0801261/CAFE3616

SAVANNAH, GA 31404
UNITED STATES US

BILL SENDER

TO **SHIPPING/RECEIVING**
EUROFINS ENVIRONMENT TESTING NORTHE
301 ALPHA DRIVE
RIDC PARK
PITTSBURGH PA 15238

(412) 969-7068
PO: YES

REF: 8680-138945

Uncorrected temp 27 °C
Thermometer ID 19

CF 0 Initials Mo

PT-WI-SR-001 effective 11/8/18

FedEx
Express



J222022022807UY

TRK#
0201 1328 9416 8702

THU - 08 SEP 10:30A
PRIORITY OVERNIGHT

XN AGCA

15238
PA-US PIT



Eurofins Savannah

5102 LaRoche Avenue
Savannah, GA 31404
Phone 912-354-7858 Fax 912-352-0165

Chain of Custody Record

Environment Testing
America



680-220481 Chain of Custody

Client Information (Sub Contract Lab)		Lab PM									
Client Contact: Fuller, David		7414 1									
Shipping/Receiving: David Fuller@et.eurofins.com		Page 1 of 3									
Company: Eurofins Environment Testing Northeast, State - Georgia		Job #: 680-220481-1									
Address: 301 Alpha Drive, RIDC Park, City: Pittsburgh, State, Zip: PA, 15238		Preservation Codes: M - Hexane N - None O - AsNeO2 P - Na2SO4 Q - Na2SO3 R - Na2SO4 S - H2SO4 T - TSP Dodecahydrate U - Acetone V - MCAA W - pH 4-5 Y - Trizma Z - other (specify) Other:									
Due Date Requested: 9/15/2022		Analysis Requested:									
TAT Requested (days):		Total Number of containers:									
PO #:		602B/3005A Custom 6 App III + 5 Permit Metals									
WO #:		Form MS/MSD (Yes or No)									
Project # 68027732		Field Filtered Sample (Yes or No)									
Site: Plant McIntosh Landfill #3		Performance MS/MSD (Yes or No)									
Sample Identification - Client ID (Lab ID)	Sample Date	Sample Time	Sample Type (C=Comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)	Preservation Code:	Field Filtered Sample (Yes or No)	Form MS/MSD (Yes or No)	Performance MS/MSD (Yes or No)	Analysis Requested	Total Number of containers	Special Instructions/Note:
GWA-7A (680-220481-1)	9/2/22	08 06 Eastern	Water	Water	X	X	X	X		1	
GWA-1B (680-220481-2)	9/2/22	08 06 Eastern	Water	Water	X	X	X	X		1	
GWA-1A (680-220481-3)	9/2/22	08 06 Eastern	Water	Water	X	X	X	X		1	
GWA-2B (680-220481-4)	9/2/22	08 06 Eastern	Water	Water	X	X	X	X		1	
GWC-1A (680-220481-5)	9/2/22	08 06 Eastern	Water	Water	X	X	X	X		1	
GWC-1 (680-220481-6)	9/2/22	12 10 Eastern	Water	Water	X	X	X	X		1	
GWC-6 (680-220481-7)	9/2/22	08 06 Eastern	Water	Water	X	X	X	X		1	
FD-06 (680-220481-8)	9/2/22	08 06 Eastern	Water	Water	X	X	X	X		1	
FB-10 (680-220481-9)	9/2/22	08 06 Eastern	Water	Water	X	X	X	X		1	

Note: Since laboratory accreditations are subject to change Eurofins Environment Testing Southeast, LLC places the ownership of method, analyte & accreditation compliance upon our subcontract laboratories. This sample shipment is forwarded under chain-of-custody. If the laboratory does not currently maintain accreditation in the State of Origin listed above for analysis/test/matrix being analyzed, the samples must be shipped back to the Eurofins Environment Testing Southeast, LLC laboratory or other instructions will be provided. Any changes to accreditation status should be brought to Eurofins Environment Testing Southeast, LLC attention immediately. If all requested accreditations are current to date return the signed Chain of Custody attesting to said compliance to Eurofins Environment Testing Southeast, LLC

Possible Hazard Identification
 Return To Client Disposal By Lab Archive For _____ Months
 Special Instructions/QC Requirements

Empty Kit Relinquished by	Date	Time	Method of Shipment:
Relinquished by: [Signature]	9/2/22	1600	Company: [Signature]
Relinquished by:			Company:
Relinquished by:			Company:

Cooler Temperature(s) °C and Other Remarks

Custody Seal No: Yes No



Eurofins Savannah

5102 LaRoche Avenue
Savannah, GA 31404
Phone 912-354-7858 Fax 912-352-0165

Chain of Custody Record



Client Information (Sub Contract Lab)		Sampler: Fuller, David	Lab PM: Fuller, David	Carrier Tracking No(s): 680-707414.2	COC No: 680-707414.2
Client Contact: Pittsborough		Phone: David Fuller@et.eurofins.com	E-Mail: David Fuller@et.eurofins.com	State of Origin: Georgia	Page: Page 2 of 3
Company: Eurofins Environment Testing Northeast, 301 Alpha Drive, RIDC Park, Pittsborough, PA, 15238		Address: 412-963-7058(Tel) 412-963-2468(Fax)		Job #: 680-220481-1	Preservation Codes: A - HCL B - NaOH C - Zn Acetate D - Nitric Acid E - NaHSO4 F - MeOH G - Amchlor H - Ascorbic Acid I - Ice J - DI Water K - EDTA L - EDA Other:
Due Date Requested: 9/15/2022		Analysis Requested:		Total Number of Containers: 1	
TAT Requested (days):		6020B/3005A Custom 6 App III + 5 Permit Metals		Special Instructions/Note:	
PO #:	WO #:	Project #:	SSOW#:	Field Filtered Sample (Yes or No):	Perform MS/MSD (Yes or No):
Sample Date		Sample Time	Sample Type (C=Comp, G=grab)	Matrix (W=water, S=soil, O=waste/oil, BT=Tissue, Asst)	Preservation Code:
EB-11 (680-220481-10)	9/2/22	08 06 Eastern	Water	Water	X
FD-05 (680-220481-11)	9/2/22	08 06 Eastern	Water	Water	X
GWA-5 (680-220481-12)	9/2/22	08 07 Eastern	Water	Water	X
GWA-4 (680-220481-13)	9/2/22	08 07 Eastern	Water	Water	X
FB-09 (680-220481-14)	9/2/22	08 07 Eastern	Water	Water	X
GWA-3A (680-220481-15)	9/2/22	08 07 Eastern	Water	Water	X
GWC-2 (680-220481-16)	9/2/22	08 07 Eastern	Water	Water	X
GWC-4A (680-220481-17)	9/2/22	08 07 Eastern	Water	Water	X
EB-12 (680-220481-18)	9/2/22	08 07 Eastern	Water	Water	X
Note: Since laboratory accreditations are subject to change, Eurofins Environment Testing Southeast, LLC places the ownership of method, analyte & accreditation compliance upon our subcontract laboratories. This sample shipment is forwarded under chain-of-custody. If the laboratory does not currently maintain accreditation in the State of Origin listed above for analysis/test/matrix being analyzed, the samples must be shipped back to the Eurofins Environment Testing Southeast, LLC laboratory or other instructions will be provided. Any changes to accreditation status should be brought to Eurofins Environment Testing Southeast, LLC attention immediately. If all requested accreditations are current to date, return the signed Chain of Custody attesting to said compliance to Eurofins Environment Testing Southeast, LLC					
Possible Hazard Identification					
Unconfirmed					
Deliverable Requested I, II, III, IV, Other (specify) Primary Deliverable Rank 2					
Empty Kit Relinquished by					
Relinquished by: CJ		Date: 9/7/22	Time: 1600	Company: [Signature]	Method of Shipment: 118/22 10:00
Relinquished by:		Date/Time:	Company:	Received by:	Date/Time:
Relinquished by:		Date/Time:	Company:	Received by:	Date/Time:
Custody Seals Intact: Δ Yes Δ No		Custody Seal No		Cooler Temperature(s) °C and Other Remarks	



Chain of Custody Record

Client Information (Sub Contract Lab)		Sampler	Lab PM	Carrier Tracking No(s)		COC No																																																												
Client Contact: Shipping/Receiving		Fuller, David	Fuller, David			680-707414.3																																																												
Company: Eurofins Environment Testing Northeast,		Phone:	E-Mail	State of Origin		Page 3 of 3																																																												
Address: 301 Alpha Drive, RIDC Park, Pittsburgh PA, 15238		Project #	State - Georgia	Accreditations Required (See note)		Job #																																																												
Phone: 412-963-7058(Tel) 412-963-2468(Fax)		SSOW#	680-220481-1																																																															
Email:		Preservation Codes:																																																																
		M - Hexane N - None O - AsMeO2 P - Na2O4S Q - Na2SO3 R - Na2S2O3 S - H2SO4 T - TSP Dodecahydrate U - Acetone V - MCAA W - pH 4-5 X - EDTA Y - Trizma Z - other (specify) Other:																																																																
Due Date Requested: 9/15/2022		<table border="1" style="width:100%; border-collapse: collapse;"> <thead> <tr> <th>Analysis Requested</th> <th>Field Filtered Sample (Yes or No)</th> <th>Field MS/MSD (Yes or No)</th> <th>6020B/3005A Custom 6 App III + 5 Permit Metals</th> <th>Total Number of Containers</th> <th>Special Instructions/Note:</th> </tr> </thead> <tbody> <tr> <td>GWC-5A (680-220481-19)</td> <td>X</td> <td>X</td> <td>X</td> <td>1</td> <td></td> </tr> <tr> <td>GWC-6A (680-220481-20)</td> <td>X</td> <td>X</td> <td>X</td> <td>1</td> <td></td> </tr> <tr> <td>GWC-5 (680-220481-21)</td> <td>X</td> <td>X</td> <td>X</td> <td>1</td> <td></td> </tr> <tr> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> </tr> </tbody> </table>					Analysis Requested	Field Filtered Sample (Yes or No)	Field MS/MSD (Yes or No)	6020B/3005A Custom 6 App III + 5 Permit Metals	Total Number of Containers	Special Instructions/Note:	GWC-5A (680-220481-19)	X	X	X	1		GWC-6A (680-220481-20)	X	X	X	1		GWC-5 (680-220481-21)	X	X	X	1																																					
Analysis Requested	Field Filtered Sample (Yes or No)						Field MS/MSD (Yes or No)	6020B/3005A Custom 6 App III + 5 Permit Metals	Total Number of Containers	Special Instructions/Note:																																																								
GWC-5A (680-220481-19)	X						X	X	1																																																									
GWC-6A (680-220481-20)	X						X	X	1																																																									
GWC-5 (680-220481-21)	X						X	X	1																																																									
TAT Requested (days):																																																																		
PO #	WO #	Sample Date	Sample Time	Sample (C=Comp, G=grab)	Matrix (W=Water, S=Solid, O=wastebot, BT=Tissue, A=Air)																																																													
Project # 68027732		9/2/22	08:07 Eastern	Water	Water																																																													
Plant: McIntosh Landfill #3		9/2/22	08:12 Eastern	Water	Water																																																													
Site		9/2/22	08:12 Eastern	Water	Water																																																													
Sample Identification - Client ID (Lab ID) Note: Since laboratory accreditations are subject to change Eurofins Environment Testing Southeast, LLC places the ownership of method, analyte & accreditation compliance upon out subcontract laboratories. This sample shipment is forwarded under chain-of-custody. If the laboratory does not currently maintain accreditation in the State of Origin listed above for analysis/test/matrix being analyzed the samples must be shipped back to the Eurofins Environment Testing Southeast, LLC laboratory or other instructions will be provided. Any changes to accreditation status should be brought to Eurofins Environment Testing Southeast, LLC attention immediately. If all requested accreditations are current to date, return the signed Chain of Custody attesting to Eurofins Environment Testing Southeast, LLC																																																																		
Possible Hazard Identification <input type="checkbox"/> Unconfirmed <input type="checkbox"/> Deliverable Requested I, II, III, IV, Other (specify) Primary Deliverable Rank 2																																																																		
Sample Disposal (A fee may be assessed if samples are retained longer than 1 month) <input type="checkbox"/> Return To Client <input type="checkbox"/> Disposal By Lab Archive For: _____ Months																																																																		
Special Instructions/QC Requirements			Method of Shipment:																																																															
Empty Kit Relinquished by		Date		Time																																																														
Relinquished by <i>cf</i>		9/2/22		1600																																																														
Relinquished by		Date/Time		Company																																																														
Relinquished by		Date/Time		Company																																																														
Relinquished by		Date/Time		Company																																																														
Custody Seals Intact. Δ Yes Δ No		Custody Seal No		Cooler Temperature(s) °C and Other Remarks																																																														

Login Sample Receipt Checklist

Client: Southern Company

Job Number: 680-220481-1

Login Number: 220481

List Source: Eurofins Savannah

List Number: 1

Creator: Sims, Robert D

Question	Answer	Comment
Radioactivity wasn't checked or is </= background as measured by a survey meter.	N/A	
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	N/A	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	N/A	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	

Login Sample Receipt Checklist

Client: Southern Company

Job Number: 680-220481-1

Login Number: 220481

List Number: 2

Creator: Kovitch, Christina M

List Source: Eurofins Pittsburgh

List Creation: 09/08/22 10:27 PM

Question	Answer	Comment
Radioactivity wasn't checked or is \leq background as measured by a survey meter.	N/A	
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <math><6\text{mm}</math> (1/4").	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	



LEVEL 2A LABORATORY DATA VALIDATIONS

McIntosh Inactive Landfill No. 3

Semiannual Event

August 2022

Georgia Power Company – McIntosh Landfill 3

Quality Control Review of Analytical Data – August 2022

This narrative presents results of the Quality Control (QC) data review performed on analytical data submitted by Eurofins Environment Testing America, Pittsburgh and Savannah for groundwater samples collected at McIntosh Landfill 3 (LF3) between August 30, 2022 and September 1, 2022. The chemical data were reviewed to identify quality issues which could affect the use of the data for decision-making purposes.

Information regarding the primary sample locations, analytical parameters, QC samples, sampling dates, and laboratory sample delivery group (SDG) designations is summarized in Table 1 of this Appendix. SDG 680-220481-1 was revised for the lab to add missing QC data.

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 permit-required state metals. Test methods included Inductively Coupled Plasma – Mass Spectrometry (USEPA Method 6020B), Determination of Inorganic Anions (USEPA Method 300.0), and Solids in Water (Standard Methods 2540C).

Data were reviewed in accordance with the USEPA Region IV Data Validation Standard Operating Procedures for Contract Laboratory Program Inorganic Data by Inductively Coupled Plasma – Atomic Emission Spectroscopy and Inductively Coupled Plasma – Mass Spectroscopy (September 2011, Rev. 2.0)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. Where there was a discrepancy between the QC criteria in the guidelines and the QC criterion established in the analytical methodology, method-specific criteria or professional judgment were used.

DATA QUALITY OBJECTIVES

Laboratory Precision: Laboratory goals for precision were met.

Field Precision: Field goals for precision were met, except for vanadium and fluoride in GWA-1B (680-220481-2) and zinc in GWC-6A (680-220481-20) as described in the qualifications section below.

Accuracy: Laboratory goals for accuracy were met.

Detection Limits: Project goals for detection limits were met.

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

Holding Times: Holding time requirements were met.

QUALIFICATIONS

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

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

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

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

- Samples GWA-1B (680-220481-2) and FD-05 (680-220481-11) were qualified as estimated (J) for vanadium and fluoride as the field relative percent differences (RPDs) exceeded QC criteria (53.3% and 123.8%, respectively, above the limit of 20).
- Samples GWC-6A (680-220481-20) and FD-06 (680-220481-8) were qualified as estimated (J) for zinc as the field RPD exceeded QC criteria (40.6%, above the limit of 20).

Atlantic Coast Consulting, Inc. reviewed the laboratory data from McIntosh LF3 sampled between August 30, 2022 and September 1, 2022 in accordance with the analytical methods, the laboratory-specified QC criteria, and the guidelines. As described above, the results were acceptable for project use.

REFERENCES

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

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

Plant McIntosh Inactive Landfill No. 3
 2022 Semiannual Groundwater Monitoring and Corrective Action Report

TABLE 1
 Georgia Power Company – McIntosh LF3
 Sample Summary Table – August 2022

SDG	Field Identification	Collection Date	Lab Identification	Matrix	QC Samples	Analyses		
						Metals (6020B)	Anions (300.0)	TDS (SM 2540C)
220481	GWA-7A	8/30/2022	680-220481-1	WG		X	X	X
220481	GWA-1B	8/30/2022	680-220481-2	WG		X	X	X
220481	GWA-1A	8/30/2022	680-220481-3	WG		X	X	X
220481	GWA-2B	8/30/2022	680-220481-4	WG		X	X	X
220481	GWC-1A	8/30/2022	680-220481-5	WG		X	X	X
220481	GWC-1	8/31/2022	680-220481-6	WG		X	X	X
220481	GWC-6	8/31/2022	680-220481-7	WG		X	X	X
220481	FD-06	8/31/2022	680-220481-8	WG	FD (GWC-6A)	X	X	X
220481	FB-10	8/31/2022	680-220481-9	WQ	FB	X	X	X
220481	EB-11	8/30/2022	680-220481-10	WQ	EB	X	X	X
220481	FD-05	8/30/2022	680-220481-11	WG	FD (GWA-1B)	X	X	X
220481	GWA-5	8/30/2022	680-220481-12	WG		X	X	X
220481	GWA-4	8/30/2022	680-220481-13	WG		X	X	X
220481	FB-09	8/30/2022	680-220481-14	WQ	FB	X	X	X
220481	GWA-3A	8/30/2022	680-220481-15	WG		X	X	X
220481	GWC-2	8/30/2022	680-220481-16	WG		X	X	X
220481	GWC-4A	8/30/2022	680-220481-17	WG		X	X	X
220481	EB-12	8/31/2022	680-220481-18	WQ	EB	X	X	X
220481	GWC-5A	8/31/2022	680-220481-19	WG		X	X	X
220481	GWC-6A	8/31/2022	680-220481-20	WG		X	X	X
220481	GWC-5	9/1/2022	680-220481-21	WG		X	X	X

Abbreviations:
 EB – Equipment Blank
 FB – Field Blank
 FD – Field Duplicate
 WG – Groundwater
 QC – Quality Control
 SDG – Sample Delivery Group
 TDS – Total Dissolved Solids
 WQ – Water Quality Control

Plant McIntosh Inactive Landfill No. 3
 2022 Semiannual Groundwater Monitoring and Corrective Action Report

TABLE 2
 Georgia Power Company – McIntosh LF3
 Qualifier Summary Table – August 2022

SDG	Field Identification	Constituent	New RL	New MDL or MDC	Qualifier	Reason
220481	GWA-1B	Vanadium			J	RPD exceeds field goal
220481	FD-05	Vanadium			J	RPD exceeds field goal
220481	GWA-1B	Fluoride			J	RPD exceeds field goal
220481	FD-05	Fluoride			J	RPD exceeds field goal
220481	GWC-6A	Zinc			J	RPD exceeds field goal
220481	FD-06	Zinc			J	RPD exceeds field goal

Abbreviations:

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

Qualifiers:

J – Estimated Result
 ND – Non-Detect Result

Low-Flow Test Report:

Test Date / Time: 8/30/2022 12:55:20 PM

Project: Plant McIntosh LF3

Operator Name: A. Schnittker

Location Name: GWA-1A Well Diameter: 2 in Casing Type: PVC Screen Length: 10 ft Top of Screen: 27.5 ft Total Depth: 37.53 ft Initial Depth to Water: 15.59 ft	Pump Type: Peristaltic Pump Tubing Type: Poly Pump Intake From TOC: 32 ft Estimated Total Volume Pumped: 5.3 liter Flow Cell Volume: 90 ml Final Flow Rate: 175 ml/min Final Draw Down: 3 in	Instrument Used: Aqua TROLL 400 Serial Number: 728566
--	---	--

Test Notes:

Sample time 1330. Sunny 80s.

Low-Flow Readings:

Date Time	Elapsed Time	pH	Temperature	Specific Conductivity	RDO Concentration	Turbidity	ORP	Depth to Water	Flow
		+/- 0.1	+/- 100	+/- 5 %	+/- 10 %	+/- 10	+/- 100	+/- 5	
8/30/2022 12:55 PM	00:00	5.18 pH	26.08 °C	39.21 µS/cm	2.02 mg/L	2.43 NTU	39.3 mV	15.59 ft	175.00 ml/min
8/30/2022 1:00 PM	05:00	5.06 pH	23.26 °C	40.24 µS/cm	0.52 mg/L	1.68 NTU	41.1 mV	15.8 ft	175.00 ml/min
8/30/2022 1:05 PM	10:00	5.04 pH	22.71 °C	40.40 µS/cm	0.45 mg/L	1.63 NTU	42.0 mV	15.8 ft	175.00 ml/min
8/30/2022 1:10 PM	15:00	5.05 pH	22.26 °C	40.45 µS/cm	0.42 mg/L	1.59 NTU	40.8 mV	15.8 ft	175.00 ml/min
8/30/2022 1:15 PM	20:00	5.03 pH	22.34 °C	40.21 µS/cm	0.41 mg/L	1.61 NTU	40.8 mV	15.8 ft	175.00 ml/min
8/30/2022 1:20 PM	25:00	5.04 pH	22.19 °C	39.88 µS/cm	0.40 mg/L	1.81 NTU	40.2 mV	15.8 ft	175.00 ml/min
8/30/2022 1:25 PM	30:00	5.01 pH	22.07 °C	39.92 µS/cm	0.40 mg/L	1.64 NTU	41.3 mV	15.8 ft	175.00 ml/min

Samples

Sample ID:	Description:
------------	--------------

Low-Flow Test Report:

Test Date / Time: 8/30/2022 11:50:12 AM

Project: Plant McIntosh LF3

Operator Name: A. Schnittker

Location Name: GWA-1B Well Diameter: 2 in Casing Type: PVC Screen Length: 10 ft Top of Screen: 48.5 ft Total Depth: 58.53 ft Initial Depth to Water: 22.42 ft	Pump Type: Peristaltic Pump Tubing Type: Poly Pump Intake From TOC: 53 ft Estimated Total Volume Pumped: 10 liter Flow Cell Volume: 90 ml Final Flow Rate: 250 ml/min Final Draw Down: 2 in	Instrument Used: Aqua TROLL 400 Serial Number: 728566
--	--	--

Test Notes:

Sample time 12:40. Sunny 80s. FD-05 here.

Low-Flow Readings:

Date Time	Elapsed Time	pH	Temperature	Specific Conductivity	RDO Concentration	Turbidity	ORP	Depth to Water	Flow
		+/- 0.1	+/- 100	+/- 5 %	+/- 10 %	+/- 10	+/- 100	+/- 5	
8/30/2022 11:50 AM	00:00	5.38 pH	21.82 °C	40.86 µS/cm	0.27 mg/L	1.86 NTU	32.5 mV	22.42 ft	250.00 ml/min
8/30/2022 11:55 AM	05:00	5.41 pH	21.73 °C	42.74 µS/cm	0.19 mg/L	1.71 NTU	43.9 mV	22.60 ft	250.00 ml/min
8/30/2022 12:00 PM	10:00	5.46 pH	21.73 °C	45.34 µS/cm	0.17 mg/L	1.59 NTU	33.1 mV	22.60 ft	250.00 ml/min
8/30/2022 12:05 PM	15:00	5.63 pH	21.90 °C	48.82 µS/cm	0.14 mg/L	1.62 NTU	22.2 mV	22.60 ft	250.00 ml/min
8/30/2022 12:10 PM	20:00	5.69 pH	22.02 °C	50.37 µS/cm	0.13 mg/L	1.14 NTU	19.8 mV	22.60 ft	250.00 ml/min
8/30/2022 12:15 PM	25:00	5.74 pH	21.86 °C	52.45 µS/cm	0.12 mg/L	1.18 NTU	19.5 mV	22.60 ft	250.00 ml/min
8/30/2022 12:20 PM	30:00	5.83 pH	22.01 °C	56.07 µS/cm	0.11 mg/L	1.60 NTU	13.7 mV	22.60 ft	250.00 ml/min
8/30/2022 12:25 PM	35:00	5.82 pH	21.82 °C	56.61 µS/cm	0.11 mg/L	1.74 NTU	15.7 mV	22.60 ft	250.00 ml/min
8/30/2022 12:30 PM	40:00	5.86 pH	22.25 °C	57.13 µS/cm	0.10 mg/L	1.57 NTU	14.4 mV	22.60 ft	250.00 ml/min

Samples

Sample ID:	Description:
------------	--------------

Low-Flow Test Report:

Test Date / Time: 8/30/2022 2:05:56 PM

Project: Plant McIntosh LF3

Operator Name: A. Schnittker

Location Name: GWA-2B Well Diameter: 2 in Casing Type: PVC Screen Length: 10 ft Top of Screen: 41.7 ft Total Depth: 51.78 ft Initial Depth to Water: 20.11 ft	Pump Type: Peristaltic Pump Tubing Type: Poly Pump Intake From TOC: 46 ft Estimated Total Volume Pumped: 4.8 liter Flow Cell Volume: 90 ml Final Flow Rate: 120 ml/min Final Draw Down: 20 in	Instrument Used: Aqua TROLL 400 Serial Number: 728566
--	--	--

Test Notes:

Sample time 1450. Sunny 80s.

Low-Flow Readings:

Date Time	Elapsed Time	pH	Temperature	Specific Conductivity	RDO Concentration	Turbidity	ORP	Depth to Water	Flow
		+/- 0.1	+/- 100	+/- 5 %	+/- 10 %	+/- 10	+/- 100	+/- 5	
8/30/2022 2:05 PM	00:00	5.55 pH	24.95 °C	128.88 µS/cm	0.89 mg/L	2.21 NTU	52.1 mV	20.11 ft	120.00 ml/min
8/30/2022 2:10 PM	05:00	5.57 pH	23.79 °C	133.62 µS/cm	0.38 mg/L	1.94 NTU	50.0 mV	20.70 ft	120.00 ml/min
8/30/2022 2:15 PM	10:00	5.54 pH	23.80 °C	133.39 µS/cm	0.29 mg/L	1.10 NTU	45.0 mV	21.60 ft	120.00 ml/min
8/30/2022 2:20 PM	15:00	5.48 pH	23.83 °C	134.93 µS/cm	0.26 mg/L	3.84 NTU	43.0 mV	21.60 ft	120.00 ml/min
8/30/2022 2:25 PM	20:00	5.32 pH	23.61 °C	141.99 µS/cm	0.24 mg/L	3.18 NTU	43.5 mV	21.60 ft	120.00 ml/min
8/30/2022 2:30 PM	25:00	5.06 pH	23.68 °C	157.36 µS/cm	0.19 mg/L	2.82 NTU	46.8 mV	21.70 ft	120.00 ml/min
8/30/2022 2:35 PM	30:00	4.97 pH	23.70 °C	163.91 µS/cm	0.18 mg/L	2.19 NTU	44.2 mV	21.80 ft	120.00 ml/min
8/30/2022 2:40 PM	35:00	4.92 pH	23.61 °C	167.50 µS/cm	0.17 mg/L	2.68 NTU	44.3 mV	21.80 ft	120.00 ml/min
8/30/2022 2:45 PM	40:00	4.90 pH	23.76 °C	167.62 µS/cm	0.16 mg/L	3.37 NTU	44.3 mV	21.80 ft	120.00 ml/min

Samples

Sample ID:	Description:
------------	--------------

Low-Flow Test Report:

Test Date / Time: 8/30/2022 1:19:42 PM

Project: Plant McIntosh LF3

Operator Name: Hunter Auld

Location Name: GWA-3A Well Diameter: 2 in Casing Type: PVC Screen Length: 10 ft Top of Screen: 23.88 ft Total Depth: 33.88 ft Initial Depth to Water: 16.77 ft	Pump Type: Peri Pump Tubing Type: Poly Pump Intake From TOC: 28 ft Estimated Total Volume Pumped: 3.6 liter Flow Cell Volume: 90 ml Final Flow Rate: 120 ml/min Final Draw Down: 12.4 in	Instrument Used: Aqua TROLL 400 Serial Number: 883530
---	---	--

Test Notes:

Sampled at 1347 on 8-30-22. Cloudy, 84. FB-09 here at 1325.

Low-Flow Readings:

Date Time	Elapsed Time	pH	Temperature	Specific Conductivity	RDO Concentration	Turbidity	ORP	Depth to Water	Flow
		+/- 0.1	+/- 2	+/- 5 %	+/- 10 %	+/- 10	+/- 25	+/- 5	
8/30/2022 1:19 PM	00:00	3.61 pH	35.05 °C	0.07 µS/cm	6.90 mg/L	10.00 NTU	166.0 mV	16.77 ft	120.00 ml/min
8/30/2022 1:25 PM	05:49	4.69 pH	25.33 °C	88.13 µS/cm	0.59 mg/L	2.64 NTU	163.4 mV	17.40 ft	120.00 ml/min
8/30/2022 1:30 PM	10:49	4.70 pH	24.38 °C	86.64 µS/cm	0.27 mg/L	1.70 NTU	207.4 mV	17.50 ft	120.00 ml/min
8/30/2022 1:35 PM	15:49	4.71 pH	23.98 °C	86.36 µS/cm	0.21 mg/L	1.36 NTU	225.1 mV	17.60 ft	120.00 ml/min
8/30/2022 1:40 PM	20:49	4.71 pH	23.81 °C	86.16 µS/cm	0.17 mg/L	2.20 NTU	232.6 mV	17.70 ft	120.00 ml/min
8/30/2022 1:45 PM	25:49	4.71 pH	23.65 °C	87.71 µS/cm	0.15 mg/L	1.92 NTU	233.9 mV	17.70 ft	120.00 ml/min

Samples

Sample ID:	Description:
------------	--------------

Low-Flow Test Report:

Test Date / Time: 8/30/2022 11:05:40 AM

Project: Plant McIntosh LF3

Operator Name: Hunter Auld

Location Name: GWA-4 Well Diameter: 2 in Casing Type: PVC Screen Length: 5 ft Top of Screen: 24.16 ft Total Depth: 29.16 ft Initial Depth to Water: 16.72 ft	Pump Type: Peri Pump Tubing Type: Poly Pump Intake From TOC: 26 ft Estimated Total Volume Pumped: 2.3 liter Flow Cell Volume: 90 ml Final Flow Rate: 50 ml/min Final Draw Down: 20.2 in	Instrument Used: Aqua TROLL 400 Serial Number: 883530
---	--	--

Test Notes:

Sampled at 1135 on 8-30-22. Partly sunny, 81.

Low-Flow Readings:

Date Time	Elapsed Time	pH	Temperature	Specific Conductivity	RDO Concentration	Turbidity	ORP	Depth to Water	Flow
		+/- 0.1	+/- 2	+/- 5 %	+/- 10 %	+/- 10	+/- 25	+/- 5	
8/30/2022 11:05 AM	00:00	4.85 pH	25.69 °C	0.09 µS/cm	8.14 mg/L	10.00 NTU	113.0 mV	16.72 ft	100.00 ml/min
8/30/2022 11:10 AM	05:00	4.75 pH	23.87 °C	39.24 µS/cm	3.40 mg/L	1.70 NTU	181.7 mV	17.30 ft	100.00 ml/min
8/30/2022 11:15 AM	10:00	4.73 pH	23.10 °C	39.55 µS/cm	3.25 mg/L	1.33 NTU	193.8 mV	17.90 ft	100.00 ml/min
8/30/2022 11:20 AM	15:00	4.73 pH	23.08 °C	40.00 µS/cm	3.28 mg/L	0.87 NTU	205.0 mV	18.30 ft	100.00 ml/min
8/30/2022 11:25 AM	20:00	4.72 pH	23.38 °C	39.71 µS/cm	3.36 mg/L	0.93 NTU	209.3 mV	18.40 ft	50.00 ml/min
8/30/2022 11:30 AM	25:00	4.72 pH	23.66 °C	40.27 µS/cm	3.32 mg/L	1.15 NTU	211.0 mV	18.50 ft	50.00 ml/min

Samples

Sample ID:	Description:
------------	--------------

Low-Flow Test Report:

Test Date / Time: 8/30/2022 9:36:10 AM

Project: Plant McIntosh LF3

Operator Name: Hunter Auld

Location Name: GWA-5 Well Diameter: 2 in Casing Type: PVC Screen Length: 10 ft Top of Screen: 23 ft Total Depth: 33 ft Initial Depth to Water: 15.86 ft	Pump Type: Peri Pump Tubing Type: Poly Pump Intake From TOC: 28 ft Estimated Total Volume Pumped: 4.4 liter Flow Cell Volume: 90 ml Final Flow Rate: 60 ml/min Final Draw Down: 40.1 in	Instrument Used: Aqua TROLL 400 Serial Number: 883530
--	--	--

Test Notes:

Sampled at 1033 on 8-30-22. Cloudy, 77.

Low-Flow Readings:

Date Time	Elapsed Time	pH	Temperature	Specific Conductivity	RDO Concentration	Turbidity	ORP	Depth to Water	Flow
		+/- 0.1	+/- 2	+/- 5 %	+/- 10 %	+/- 10	+/- 25	+/- 5	
8/30/2022 9:36 AM	00:00	6.97 pH	24.95 °C	111.99 µS/cm	8.38 mg/L	10.00 NTU	222.9 mV	15.86 ft	100.00 ml/min
8/30/2022 9:41 AM	05:00	4.53 pH	23.00 °C	88.20 µS/cm	0.79 mg/L	3.80 NTU	168.5 mV	16.80 ft	100.00 ml/min
8/30/2022 9:46 AM	10:00	4.50 pH	22.58 °C	87.08 µS/cm	0.53 mg/L	3.10 NTU	174.5 mV	17.30 ft	100.00 ml/min
8/30/2022 9:51 AM	15:00	4.51 pH	22.53 °C	84.58 µS/cm	0.41 mg/L	3.10 NTU	177.0 mV	18.00 ft	100.00 ml/min
8/30/2022 9:56 AM	20:00	4.51 pH	22.44 °C	82.72 µS/cm	0.51 mg/L	3.20 NTU	180.0 mV	18.50 ft	60.00 ml/min
8/30/2022 10:01 AM	25:00	4.50 pH	22.66 °C	82.29 µS/cm	0.87 mg/L	3.30 NTU	183.7 mV	18.60 ft	60.00 ml/min
8/30/2022 10:06 AM	30:00	4.50 pH	22.68 °C	82.49 µS/cm	1.04 mg/L	4.40 NTU	186.3 mV	18.70 ft	60.00 ml/min
8/30/2022 10:11 AM	35:00	4.50 pH	22.63 °C	83.70 µS/cm	1.14 mg/L	4.50 NTU	189.7 mV	18.80 ft	60.00 ml/min
8/30/2022 10:16 AM	40:00	4.50 pH	22.85 °C	84.24 µS/cm	1.26 mg/L	4.95 NTU	191.3 mV	18.90 ft	60.00 ml/min
8/30/2022 10:21 AM	45:00	4.50 pH	22.94 °C	83.94 µS/cm	1.05 mg/L	4.80 NTU	251.1 mV	19.00 ft	60.00 ml/min
8/30/2022 10:26 AM	50:00	4.50 pH	22.76 °C	84.14 µS/cm	0.98 mg/L	4.50 NTU	198.7 mV	19.10 ft	60.00 ml/min
8/30/2022 10:31 AM	55:00	4.51 pH	22.85 °C	84.59 µS/cm	0.94 mg/L	4.60 NTU	199.1 mV	19.20 ft	60.00 ml/min

Samples

Sample ID:	Description:
------------	--------------

Low-Flow Test Report:

Test Date / Time: 8/30/2022 10:45:09 AM

Project: Plant McIntosh LF3

Operator Name: A. Schnittker

Location Name: GWA-7A Well Diameter: 2 in Casing Type: PVC Screen Length: 10 ft Top of Screen: 36.94 ft Total Depth: 46.94 ft Initial Depth to Water: 23.69 ft	Pump Type: Peristaltic Pump Tubing Type: Poly Pump Intake From TOC: 41 ft Estimated Total Volume Pumped: 3.9 liter Flow Cell Volume: 90 ml Final Flow Rate: 130 ml/min Final Draw Down: 11 in	Instrument Used: Aqua TROLL 400 Serial Number: 728566
---	--	--

Test Notes:

Sample time 1120. Sunny 80s.

Low-Flow Readings:

Date Time	Elapsed Time	pH	Temperature	Specific Conductivity	RDO Concentration	Turbidity	ORP	Depth to Water	Flow
		+/- 0.1	+/- 100	+/- 5 %	+/- 10 %	+/- 10	+/- 100	+/- 5	
8/30/2022 10:45 AM	00:00	5.07 pH	22.40 °C	173.83 µS/cm	0.33 mg/L	3.40 NTU	76.3 mV	23.69 ft	130.00 ml/min
8/30/2022 10:50 AM	05:00	5.06 pH	22.45 °C	171.62 µS/cm	0.28 mg/L	2.73 NTU	75.2 mV	24.60 ft	130.00 ml/min
8/30/2022 10:55 AM	10:00	5.05 pH	22.00 °C	171.54 µS/cm	0.24 mg/L	2.35 NTU	62.0 mV	24.60 ft	130.00 ml/min
8/30/2022 11:00 AM	15:00	5.03 pH	22.00 °C	172.44 µS/cm	0.22 mg/L	2.28 NTU	62.9 mV	24.60 ft	130.00 ml/min
8/30/2022 11:05 AM	20:00	5.02 pH	22.16 °C	173.11 µS/cm	0.21 mg/L	2.21 NTU	58.4 mV	24.60 ft	130.00 ml/min
8/30/2022 11:10 AM	25:00	5.01 pH	22.49 °C	173.06 µS/cm	0.19 mg/L	2.36 NTU	58.9 mV	24.60 ft	130.00 ml/min
8/30/2022 11:15 AM	30:00	5.00 pH	22.55 °C	174.41 µS/cm	0.18 mg/L	2.08 NTU	58.4 mV	24.60 ft	130.00 ml/min

Samples

Sample ID:	Description:
------------	--------------

Low-Flow Test Report:

Test Date / Time: 8/31/2022 9:20:06 AM

Project: Plant McIntosh LF3

Operator Name: A. Schnittker

Location Name: GWC-1 Well Diameter: 2 in Casing Type: PVC Screen Length: 10 ft Top of Screen: 25.95 ft Total Depth: 35.95 ft Initial Depth to Water: 21.6 ft	Pump Type: Peristaltic Pump Tubing Type: Poly Pump Intake From TOC: 30 ft Estimated Total Volume Pumped: 4.5 liter Flow Cell Volume: 90 ml Final Flow Rate: 150 ml/min Final Draw Down: 1 in	Instrument Used: Aqua TROLL 400 Serial Number: 728566
---	---	--

Test Notes:

Sample time 0955. Sunny 80s. FB-10 here at 0945.

Low-Flow Readings:

Date Time	Elapsed Time	pH	Temperature	Specific Conductivity	RDO Concentration	Turbidity	ORP	Depth to Water	Flow
		+/- 0.1	+/- 100	+/- 5 %	+/- 10 %	+/- 10	+/- 100	+/- 5	
8/31/2022 9:20 AM	00:00	5.05 pH	24.02 °C	62.21 µS/cm	1.63 mg/L	1.75 NTU	153.1 mV	21.60 ft	150.00 ml/min
8/31/2022 9:25 AM	05:00	4.70 pH	22.14 °C	54.97 µS/cm	0.62 mg/L	1.37 NTU	123.0 mV	21.70 ft	150.00 ml/min
8/31/2022 9:30 AM	10:00	4.68 pH	21.92 °C	52.41 µS/cm	0.49 mg/L	1.40 NTU	109.2 mV	21.70 ft	150.00 ml/min
8/31/2022 9:35 AM	15:00	4.70 pH	21.91 °C	51.31 µS/cm	0.42 mg/L	0.99 NTU	110.0 mV	21.70 ft	150.00 ml/min
8/31/2022 9:40 AM	20:00	4.69 pH	21.91 °C	51.23 µS/cm	0.38 mg/L	1.08 NTU	99.9 mV	21.70 ft	150.00 ml/min
8/31/2022 9:45 AM	25:00	4.69 pH	21.91 °C	50.71 µS/cm	0.36 mg/L	1.03 NTU	94.8 mV	21.70 ft	150.00 ml/min
8/31/2022 9:50 AM	30:00	4.69 pH	21.82 °C	50.45 µS/cm	0.35 mg/L	0.96 NTU	91.8 mV	21.70 ft	150.00 ml/min

Samples

Sample ID:	Description:
------------	--------------

Low-Flow Test Report:

Test Date / Time: 8/30/2022 3:25:16 PM

Project: Plant McIntosh LF3

Operator Name: A. Schnittker

Location Name: GWC-1A Well Diameter: 2 in Casing Type: PVC Screen Length: 10 ft Top of Screen: 37.37 ft Total Depth: 47.37 ft Initial Depth to Water: 21.69 ft	Pump Type: Peristaltic Pump Tubing Type: Poly Pump Intake From TOC: 42 ft Estimated Total Volume Pumped: 4.5 liter Flow Cell Volume: 90 ml Final Flow Rate: 150 ml/min Final Draw Down: 19 in	Instrument Used: Aqua TROLL 400 Serial Number: 728566
---	--	--

Test Notes:

Sample time 1600. Sunny 80s. EB-11 here at 1620.

Low-Flow Readings:

Date Time	Elapsed Time	pH	Temperature	Specific Conductivity	RDO Concentration	Turbidity	ORP	Depth to Water	Flow
		+/- 0.1	+/- 100	+/- 5 %	+/- 10 %	+/- 10	+/- 100	+/- 5	
8/30/2022 3:25 PM	00:00	4.45 pH	26.06 °C	74.09 µS/cm	0.77 mg/L	1.78 NTU	56.6 mV	21.69 ft	150.00 ml/min
8/30/2022 3:30 PM	05:00	4.44 pH	24.15 °C	77.06 µS/cm	0.57 mg/L	1.55 NTU	53.5 mV	23.20 ft	150.00 ml/min
8/30/2022 3:35 PM	10:00	4.43 pH	23.68 °C	77.30 µS/cm	0.52 mg/L	1.30 NTU	53.2 mV	23.20 ft	150.00 ml/min
8/30/2022 3:40 PM	15:00	4.44 pH	23.43 °C	76.38 µS/cm	0.49 mg/L	1.29 NTU	53.1 mV	23.20 ft	150.00 ml/min
8/30/2022 3:45 PM	20:00	4.42 pH	23.34 °C	77.27 µS/cm	0.46 mg/L	1.17 NTU	53.4 mV	23.20 ft	150.00 ml/min
8/30/2022 3:50 PM	25:00	4.42 pH	23.03 °C	75.93 µS/cm	0.47 mg/L	0.98 NTU	53.8 mV	23.30 ft	150.00 ml/min
8/30/2022 3:55 PM	30:00	4.43 pH	22.94 °C	77.02 µS/cm	0.44 mg/L	0.73 NTU	53.5 mV	23.30 ft	150.00 ml/min

Samples

Sample ID:	Description:
------------	--------------

Low-Flow Test Report:

Test Date / Time: 8/30/2022 2:27:24 PM

Project: Plant McIntosh LF3

Operator Name: Hunter Auld

Location Name: GWC-2 Well Diameter: 2 in Casing Type: PVC Screen Length: 9.3 ft Top of Screen: 27.5 ft Total Depth: 36.79 ft Initial Depth to Water: 20.56 ft	Pump Type: Peri Pump Tubing Type: Poly Pump Intake From TOC: 31.5 ft Estimated Total Volume Pumped: 4.6 liter Flow Cell Volume: 90 ml Final Flow Rate: 175 ml/min Final Draw Down: 1.1 in	Instrument Used: Aqua TROLL 400 Serial Number: 883530
--	--	--

Test Notes:

Sampled at 1453 on 8-30-22. Cloudy, 84.

Low-Flow Readings:

Date Time	Elapsed Time	pH	Temperature	Specific Conductivity	RDO Concentration	Turbidity	ORP	Depth to Water	Flow
		+/- 0.1	+/- 2	+/- 5 %	+/- 10 %	+/- 10	+/- 25	+/- 5	
8/30/2022 2:27 PM	00:00	3.46 pH	32.41 °C	0.00 µS/cm	7.39 mg/L	10.00 NTU	173.7 mV	20.56 ft	175 ml/min
8/30/2022 2:32 PM	05:00	4.98 pH	26.40 °C	39.36 µS/cm	0.70 mg/L	2.70 NTU	291.1 mV	20.65 ft	175 ml/min
8/30/2022 2:37 PM	10:00	4.99 pH	26.20 °C	39.46 µS/cm	0.43 mg/L	1.70 NTU	351.9 mV	20.65 ft	175 ml/min
8/30/2022 2:42 PM	15:00	4.97 pH	25.71 °C	38.59 µS/cm	0.33 mg/L	1.60 NTU	386.8 mV	20.65 ft	175 ml/min
8/30/2022 2:47 PM	20:00	4.95 pH	25.51 °C	38.56 µS/cm	0.25 mg/L	1.80 NTU	397.1 mV	20.65 ft	175 ml/min
8/30/2022 2:52 PM	25:00	4.96 pH	25.40 °C	38.41 µS/cm	0.22 mg/L	1.73 NTU	411.2 mV	20.65 ft	175 ml/min

Samples

Sample ID:	Description:
------------	--------------

Low-Flow Test Report:

Test Date / Time: 8/30/2022 3:26:30 PM

Project: Plant McIntosh LF3

Operator Name: Hunter Auld

Location Name: GWC-4A Well Diameter: 2 in Casing Type: PVC Screen Length: 10 ft Top of Screen: 26.96 ft Total Depth: 36.96 ft Initial Depth to Water: 22.64 ft	Pump Type: Peri Pump Tubing Type: Poly Pump Intake From TOC: 31.5 ft Estimated Total Volume Pumped: 2.5 liter Flow Cell Volume: 90 ml Final Flow Rate: 100 ml/min Final Draw Down: 4.9 in	Instrument Used: Aqua TROLL 400 Serial Number: 883530
---	--	--

Test Notes:

Sampled at 1552 on 8-30-22. Partly cloudy, 88.

Low-Flow Readings:

Date Time	Elapsed Time	pH	Temperature	Specific Conductivity	RDO Concentration	Turbidity	ORP	Depth to Water	Flow
		+/- 0.1	+/- 2	+/- 5 %	+/- 10 %	+/- 10	+/- 25	+/- 5	
8/30/2022 3:26 PM	00:00	5.61 pH	37.07 °C	0.00 µS/cm	6.80 mg/L	10.00 NTU	156.2 mV	22.64 ft	100.00 ml/min
8/30/2022 3:31 PM	05:00	4.67 pH	29.54 °C	26.26 µS/cm	1.06 mg/L	3.50 NTU	356.1 mV	22.90 ft	100.00 ml/min
8/30/2022 3:36 PM	10:00	4.70 pH	27.48 °C	26.71 µS/cm	0.69 mg/L	2.40 NTU	439.6 mV	22.90 ft	100.00 ml/min
8/30/2022 3:41 PM	15:00	4.72 pH	26.80 °C	26.71 µS/cm	0.57 mg/L	1.80 NTU	505.2 mV	23.00 ft	100.00 ml/min
8/30/2022 3:46 PM	20:00	4.72 pH	26.88 °C	26.78 µS/cm	0.52 mg/L	1.60 NTU	534.4 mV	23.00 ft	100.00 ml/min
8/30/2022 3:51 PM	25:00	4.71 pH	26.52 °C	26.43 µS/cm	0.45 mg/L	1.57 NTU	549.0 mV	23.05 ft	100.00 ml/min

Samples

Sample ID:	Description:
------------	--------------

Low-Flow Test Report:

Test Date / Time: 8/31/2022 9:20:11 AM

Project: Plant McIntosh LF3

Operator Name: Hunter Auld

Location Name: GWC-5 Well Diameter: 2 in Casing Type: PVC Screen Length: 10 ft Top of Screen: 21 ft Total Depth: 31 ft Initial Depth to Water: 22.71 ft	Pump Type: Peri Pump Tubing Type: Poly Pump Intake From TOC: 29 ft Estimated Total Volume Pumped: 14.7 liter Flow Cell Volume: 90 ml Final Flow Rate: 200 ml/min Final Draw Down: 81.5 in	Instrument Used: Aqua TROLL 400 Serial Number: 883530
--	--	--

Test Notes:

Well purged dry on 8-31-22, allow overnight recharge.

Low-Flow Readings:

Date Time	Elapsed Time	pH	Temperature	Specific Conductivity	RDO Concentration	Turbidity	ORP	Depth to Water	Flow
		+/- 0.1	+/- 2	+/- 5 %	+/- 10 %	+/- 10	+/- 25	+/- 5	
8/31/2022 9:20 AM	00:00	4.42 pH	23.93 °C	147.00 µS/cm	0.37 mg/L	10.00 NTU	138.3 mV	22.71 ft	200.00 ml/min
8/31/2022 9:25 AM	05:00	4.41 pH	23.60 °C	143.14 µS/cm	0.29 mg/L	6.10 NTU	144.5 mV	23.80 ft	200.00 ml/min
8/31/2022 9:30 AM	10:00	4.42 pH	23.71 °C	143.15 µS/cm	0.27 mg/L	5.20 NTU	150.1 mV	24.60 ft	200.00 ml/min
8/31/2022 9:35 AM	15:00	4.44 pH	23.43 °C	138.39 µS/cm	0.20 mg/L	5.50 NTU	181.6 mV	24.90 ft	200.00 ml/min
8/31/2022 9:40 AM	20:00	4.44 pH	23.14 °C	138.03 µS/cm	0.17 mg/L	4.70 NTU	194.5 mV	25.30 ft	200.00 ml/min
8/31/2022 9:45 AM	25:00	4.47 pH	22.96 °C	134.47 µS/cm	0.14 mg/L	4.70 NTU	206.1 mV	25.80 ft	200.00 ml/min
8/31/2022 9:50 AM	30:00	4.55 pH	23.08 °C	128.48 µS/cm	0.12 mg/L	4.40 NTU	215.0 mV	26.30 ft	200.00 ml/min
8/31/2022 9:55 AM	35:00	4.56 pH	23.29 °C	130.09 µS/cm	0.11 mg/L	4.30 NTU	180.4 mV	26.90 ft	200.00 ml/min
8/31/2022 10:00 AM	40:00	4.50 pH	23.12 °C	131.67 µS/cm	0.09 mg/L	2.90 NTU	232.8 mV	27.40 ft	200.00 ml/min
8/31/2022 10:05 AM	45:00	4.47 pH	23.52 °C	135.70 µS/cm	0.14 mg/L	1.40 NTU	241.6 mV	27.60 ft	100.00 ml/min
8/31/2022 10:10 AM	50:00	4.46 pH	23.76 °C	136.89 µS/cm	0.14 mg/L	1.30 NTU	250.0 mV	27.90 ft	100.00 ml/min
8/31/2022 10:15 AM	55:00	4.48 pH	23.66 °C	136.24 µS/cm	0.12 mg/L	1.60 NTU	259.3 mV	28.40 ft	200.00 ml/min
8/31/2022 10:20 AM	01:00:00	4.47 pH	23.26 °C	138.24 µS/cm	0.15 mg/L	1.50 NTU	269.5 mV	28.90 ft	200.00 ml/min
8/31/2022 10:25 AM	01:05:00	4.47 pH	23.18 °C	138.82 µS/cm	0.15 mg/L	1.40 NTU	278.0 mV	28.90 ft	200.00 ml/min

Low-Flow Test Report:

Test Date / Time: 9/1/2022 9:40:15 AM

Project: Plant McIntosh LF3

Operator Name: A. Schnittker

Location Name: GWC-5 Well Diameter: 2 in Casing Type: PVC Screen Length: 10 ft Top of Screen: 21 ft Total Depth: 31 ft Initial Depth to Water: 22.72 ft	Pump Type: Peristaltic Pump Tubing Type: Poly Pump Intake From TOC: 26 ft Estimated Total Volume Pumped: 15.8 liter Flow Cell Volume: 90 ml Final Flow Rate: 75 ml/min Final Draw Down: 20 in	Instrument Used: Aqua TROLL 400 Serial Number: 728566
--	--	--

Test Notes:

Sample Time 1000. Sunny 80s.

Low-Flow Readings:

Date Time	Elapsed Time	pH	Temperature	Specific Conductivity	RDO Concentration	Turbidity	ORP	Depth to Water	Flow
		+/- 0.1	+/- 100	+/- 5 %	+/- 10 %	+/- 10	+/- 100	+/- 5	
9/1/2022 9:40 AM	00:00	4.31 pH	24.27 °C	144.18 µS/cm	1.43 mg/L	1.94 NTU	184.8 mV	22.72 ft	75.00 ml/min
9/1/2022 9:45 AM	05:00	4.29 pH	23.26 °C	145.49 µS/cm	0.55 mg/L	1.88 NTU	216.4 mV	23.40 ft	75.00 ml/min
9/1/2022 9:50 AM	10:00	4.28 pH	22.89 °C	139.74 µS/cm	0.41 mg/L	1.76 NTU	149.0 mV	23.90 ft	75.00 ml/min
9/1/2022 9:55 AM	15:00	4.29 pH	22.81 °C	137.54 µS/cm	0.35 mg/L	1.73 NTU	199.7 mV	24.40 ft	75.00 ml/min

Samples

Sample ID:	Description:
------------	--------------

Low-Flow Test Report:

Test Date / Time: 8/31/2022 11:13:35 AM

Project: Plant McIntosh LF3

Operator Name: Hunter Auld

Location Name: GWC-5A Well Diameter: 2 in Casing Type: PVC Screen Length: 10 ft Top of Screen: 32.6 ft Total Depth: 42.6 ft Initial Depth to Water: 24.09 ft	Pump Type: Peri Pump Tubing Type: Poly Pump Intake From TOC: 37.5 ft Estimated Total Volume Pumped: 4.1 liter Flow Cell Volume: 90 ml Final Flow Rate: 150 ml/min Final Draw Down: 2.5 in	Instrument Used: Aqua TROLL 400 Serial Number: 883530
---	--	--

Test Notes:

Sampled at 1140 on 8-31-22. Partly cloudy 88. EB-12 here at 1135.

Low-Flow Readings:

Date Time	Elapsed Time	pH	Temperature	Specific Conductivity	RDO Concentration	Turbidity	ORP	Depth to Water	Flow
		+/- 0.1	+/- 2	+/- 5 %	+/- 10 %	+/- 10	+/- 25	+/- 5	
8/31/2022 11:13 AM	00:00	4.99 pH	28.51 °C	0.11 µS/cm	7.23 mg/L	10.00 NTU	132.5 mV	24.09 ft	150.00 ml/min
8/31/2022 11:18 AM	05:00	5.01 pH	27.98 °C	31.11 µS/cm	3.36 mg/L	3.40 NTU	180.2 mV	24.30 ft	150.00 ml/min
8/31/2022 11:23 AM	10:00	4.97 pH	25.42 °C	28.11 µS/cm	0.48 mg/L	1.93 NTU	211.5 mV	24.30 ft	150.00 ml/min
8/31/2022 11:28 AM	15:00	4.97 pH	24.79 °C	28.24 µS/cm	0.36 mg/L	1.60 NTU	225.7 mV	24.30 ft	150.00 ml/min
8/31/2022 11:33 AM	20:00	4.96 pH	24.53 °C	28.19 µS/cm	0.34 mg/L	1.40 NTU	237.6 mV	24.30 ft	150.00 ml/min
8/31/2022 11:38 AM	25:00	4.97 pH	24.74 °C	28.31 µS/cm	0.31 mg/L	1.80 NTU	242.7 mV	24.30 ft	150.00 ml/min

Samples

Sample ID:	Description:
------------	--------------

Low-Flow Test Report:

Test Date / Time: 8/31/2022 10:20:03 AM

Project: Plant McIntosh LF3

Operator Name: A. Schnittker

Location Name: GWC-6 Well Diameter: 2 in Casing Type: PVC Screen Length: 5 ft Top of Screen: 27.6 ft Total Depth: 32.64 ft Initial Depth to Water: 23.11 ft	Pump Type: Peristaltic Pump Tubing Type: Poly Pump Intake From TOC: 30 ft Estimated Total Volume Pumped: 3.5 liter Flow Cell Volume: 90 ml Final Flow Rate: 50 ml/min Final Draw Down: 33 in	Instrument Used: Aqua TROLL 400 Serial Number: 728566
--	---	--

Test Notes:

Sample time 1135. Sunny 80s.

Low-Flow Readings:

Date Time	Elapsed Time	pH	Temperature	Specific Conductivity	RDO Concentration	Turbidity	ORP	Depth to Water	Flow
		+/- 0.1	+/- 100	+/- 5 %	+/- 10 %	+/- 10	+/- 100	+/- 5	
8/31/2022 10:20 AM	00:00	4.84 pH	24.49 °C	34.80 µS/cm	2.95 mg/L	1.48 NTU	112.5 mV	23.11 ft	50.00 ml/min
8/31/2022 10:25 AM	05:00	4.86 pH	23.80 °C	35.36 µS/cm	1.75 mg/L	1.31 NTU	92.4 mV	24.30 ft	50.00 ml/min
8/31/2022 10:30 AM	10:00	4.87 pH	24.15 °C	35.49 µS/cm	1.75 mg/L	1.53 NTU	88.2 mV	24.70 ft	50.00 ml/min
8/31/2022 10:35 AM	15:00	4.87 pH	24.35 °C	35.51 µS/cm	1.77 mg/L	1.94 NTU	87.2 mV	25.00 ft	50.00 ml/min
8/31/2022 10:40 AM	20:00	4.89 pH	24.53 °C	35.75 µS/cm	1.85 mg/L	2.50 NTU	86.3 mV	25.30 ft	50.00 ml/min
8/31/2022 10:45 AM	25:00	4.95 pH	24.89 °C	36.29 µS/cm	2.31 mg/L	2.33 NTU	86.8 mV	25.40 ft	50.00 ml/min
8/31/2022 10:50 AM	30:00	4.99 pH	25.10 °C	36.26 µS/cm	2.72 mg/L	1.96 NTU	85.2 mV	25.70 ft	50.00 ml/min
8/31/2022 10:55 AM	35:00	5.05 pH	25.05 °C	37.22 µS/cm	5.57 mg/L	1.15 NTU	97.1 mV	25.80 ft	50.00 ml/min
8/31/2022 11:00 AM	40:00	5.32 pH	25.69 °C	36.16 µS/cm	6.81 mg/L	1.26 NTU	100.5 mV	25.90 ft	50.00 ml/min
8/31/2022 11:05 AM	45:00	5.49 pH	26.24 °C	35.99 µS/cm	7.10 mg/L	1.63 NTU	100.2 mV	25.90 ft	50.00 ml/min
8/31/2022 11:10 AM	50:00	5.33 pH	26.66 °C	35.90 µS/cm	6.30 mg/L	1.48 NTU	95.9 mV	25.90 ft	50.00 ml/min
8/31/2022 11:15 AM	55:00	4.86 pH	24.26 °C	34.76 µS/cm	1.80 mg/L	1.15 NTU	84.8 mV	25.90 ft	50.00 ml/min
8/31/2022 11:20 AM	01:00:00	4.86 pH	23.77 °C	35.12 µS/cm	1.53 mg/L	1.27 NTU	80.8 mV	25.90 ft	50.00 ml/min
8/31/2022 11:25 AM	01:05:00	4.86 pH	23.66 °C	34.92 µS/cm	1.45 mg/L	2.36 NTU	79.5 mV	25.90 ft	50.00 ml/min
8/31/2022 11:30 AM	01:10:00	4.85 pH	23.48 °C	35.48 µS/cm	1.47 mg/L	2.70 NTU	78.9 mV	25.90 ft	50.00 ml/min

Low-Flow Test Report:

Test Date / Time: 8/31/2022 12:02:08 PM

Project: Plant McIntosh LF3

Operator Name: A. Schnittker

Location Name: GWC-6A Well Diameter: 2 in Casing Type: PVC Screen Length: 10 ft Top of Screen: 32.43 ft Total Depth: 42.43 ft Initial Depth to Water: 24.22 ft	Pump Type: Peristaltic Pump Tubing Type: Poly Pump Intake From TOC: 37 ft Estimated Total Volume Pumped: 6 liter Flow Cell Volume: 90 ml Final Flow Rate: 200 ml/min Final Draw Down: 9 in	Instrument Used: Aqua TROLL 400 Serial Number: 728566
---	---	--

Test Notes:

Sample time 1235. Sunny 80s. FD-06 here.

Low-Flow Readings:

Date Time	Elapsed Time	pH	Temperature	Specific Conductivity	RDO Concentration	Turbidity	ORP	Depth to Water	Flow
		+/- 0.1	+/- 100	+/- 5 %	+/- 10 %	+/- 10	+/- 100	+/- 5	
8/31/2022 12:02 PM	00:00	5.11 pH	23.75 °C	58.21 µS/cm	0.30 mg/L	2.86 NTU	92.6 mV	24.22 ft	200.00 ml/min
8/31/2022 12:07 PM	05:00	5.11 pH	23.75 °C	57.36 µS/cm	0.24 mg/L	2.83 NTU	77.9 mV	24.70 ft	200.00 ml/min
8/31/2022 12:12 PM	10:00	5.11 pH	23.79 °C	57.09 µS/cm	0.23 mg/L	2.37 NTU	71.3 mV	24.90 ft	200.00 ml/min
8/31/2022 12:17 PM	15:00	5.10 pH	23.50 °C	56.60 µS/cm	0.21 mg/L	2.26 NTU	66.9 mV	25.00 ft	200.00 ml/min
8/31/2022 12:22 PM	20:00	5.11 pH	23.30 °C	56.67 µS/cm	0.19 mg/L	1.52 NTU	63.4 mV	25.00 ft	200.00 ml/min
8/31/2022 12:27 PM	25:00	5.10 pH	23.42 °C	56.27 µS/cm	0.19 mg/L	1.94 NTU	61.2 mV	25.00 ft	200.00 ml/min
8/31/2022 12:32 PM	30:00	5.07 pH	23.39 °C	55.81 µS/cm	0.18 mg/L	1.58 NTU	60.9 mV	25.00 ft	200.00 ml/min

Samples

Sample ID:	Description:
------------	--------------



Daily Instrument Calibration Log

SITE: Plant McIntosh LF3
 TECHNICIAN: H. And
 WATER LEVEL: Solinst
 WATER LEVEL S/N: 48832

INSTRUMENT S/N: 883530
 INSTRUMENT TYPE: AquaTroll
 CAL. SOLUTIONS/S:
 ID: pH 4 LOT #: 26E870 EXP. DATE: 05/24
 ID: pH 7 LOT #: 21010026 EXP. DATE: 09/22
 ID: pH 10 LOT #: 20080056 EXP. DATE: 04/23
 ID: 1.413 LOT #: 26B1002 EXP. DATE: 02/23
 ID: ORP 228 LOT #: 21140143 EXP. DATE: 04/23 **Midday pH check**
 ID: _____ LOT #: _____ EXP. DATE: _____ **Must be less than .10**
 ID: _____ LOT #: _____ EXP. DATE: _____ **(6.90-7.10 range)**
 Recalibrate if not within range

Calibration Date: 8/30/22
 RDO: 100% sat. = 100.7% **Midday pH check**
 PH: 4.00 = 4.00 7.00 = 7.04 10.00 = 10.06 7.0 = 7.01
 PH Recal (if needed): 4.00 = _____ 7.00 = _____ 10.00 = _____ 7.0 = post recal check
 CONDUCTIVITY: 1413 = 1486
 ORP (mV) 228 = 218

Calibration Date: 8/31/22
 RDO: 100% sat. = 106.8% **Midday pH check**
 PH: 4.00 = 4.01 7.00 = 6.96 10.00 = 9.98 7.0 = _____
 PH Recal (if needed): 4.00 = _____ 7.00 = _____ 10.00 = _____ 7.0 = post recal check
 CONDUCTIVITY: 1413 = 1376
 ORP (mV) 228 = 223

Calibration Date: _____
 RDO: 100% sat. = _____ **Midday pH check**
 PH: 4.00 = _____ 7.00 = _____ 10.00 = _____ 7.0 = _____
 PH Recal (if needed): 4.00 = _____ 7.00 = _____ 10.00 = _____ 7.0 = post recal check
 CONDUCTIVITY: _____ = _____
 ORP (mV) _____ = _____

Calibration Date: _____
 RDO: 100% sat. = _____ **Midday pH check**
 PH: 4.00 = _____ 7.00 = _____ 10.00 = _____ 7.0 = _____
 PH Recal (if needed): 4.00 = _____ 7.00 = _____ 10.00 = _____ 7.0 = post recal check
 CONDUCTIVITY: _____ = _____
 ORP (mV) _____ = _____

Calibration Date: _____
 RDO: 100% sat. = _____ **Midday pH check**
 PH: 4.00 = _____ 7.00 = _____ 10.00 = _____ 7.0 = _____
 PH Recal (if needed): 4.00 = _____ 7.00 = _____ 10.00 = _____ 7.0 = post recal check
 CONDUCTIVITY: _____ = _____
 ORP (mV) _____ = _____



Daily Instrument Calibration Log

SITE: Plant McIntosh LF3
 TECHNICIAN: A. Schnitker
 WATER LEVEL: Solinst
 WATER LEVEL S/N: 377060

INSTRUMENT S/N: 728566
 INSTRUMENT TYPE: AquaTroll
 CAL. SOLUTIONS/ID: pH 4 LOT #: 1612617 EXP. DATE: 11/23
pH 7 LOT #: 260169 EXP. DATE: 3/24
pH 10 LOT #: 160429 EXP. DATE: 7/23
Con LOT #: 26F806 EXP. DATE: 6/23
ORP LOT #: 2114043 EXP. DATE: 4/23

Midday pH check
 Must be less than .10
 (6.90-7.10 range)
 Recalibrate if not within range

Calibration Date: 8/30/22

RDO: 100% sat. = 98.32 Midday pH check
 PH: 4.00 = 3.98 7.00 = 7.01 10.00 = 9.93 7.0 = 7.00
 PH Recal (if needed): 4.00 = NA 7.00 = NA 10.00 = NA 7.0 = NA post recal check
 CONDUCTIVITY: 1413 = 1503.8
 ORP (mV) 228 = 228.4

Calibration Date: 8/31/22

RDO: 100% sat. = 100.83 Midday pH check
 PH: 4.00 = 4.01 7.00 = 7.03 10.00 = 9.94 7.0 = 7.00
 PH Recal (if needed): 4.00 = NA 7.00 = NA 10.00 = NA 7.0 = NA post recal check
 CONDUCTIVITY: 1413 = 1392.2
 ORP (mV) 228 = 226.4

Calibration Date: 9/1/22

RDO: 100% sat. = 102.27 Midday pH check
 PH: 4.00 = 4.03 7.00 = 7.05 10.00 = 9.95 7.0 = 7.00
 PH Recal (if needed): 4.00 = 7.00 = 10.00 = 7.0 = post recal check
 CONDUCTIVITY: 1413 = 1456.5
 ORP (mV) 228 = 227.3

Calibration Date:

RDO: 100% sat. = Midday pH check
 PH: 4.00 = 7.00 = 10.00 = 7.0 =
 PH Recal (if needed): 4.00 = 7.00 = 10.00 = 7.0 = post recal check
 CONDUCTIVITY: =
 ORP (mV) =

Calibration Date:

RDO: 100% sat. = Midday pH check
 PH: 4.00 = 7.00 = 10.00 = 7.0 =
 PH Recal (if needed): 4.00 = 7.00 = 10.00 = 7.0 = post recal check
 CONDUCTIVITY: =
 ORP (mV) =



Daily Instrument Calibration Log

SITE: Plant McIntosh
TECHNICIAN: A. Schmittler

INSTRUMENT S/N: 11090C12353
INSTRUMENT TYPE: Hach 2100Q
CAL. SOLUTION: 0 NTU - LOT # NA EXP. DATE: NA Fresh DI Water
10 NTU - LOT # A2122 EXP. DATE: 8/23
20 NTU - LOT # A2124 EXP. DATE: 8/23

Calibration Date: 8/20/22

Calibration Solution	Instrument Reading	
0.0	6.15	NTU
10.0	9.95	NTU
20.0	18.9	NTU

Calibration Date: 8/31/22

Calibration Solution	Instrument Reading	
0.0	0.17	NTU
10.0	9.87	NTU
20.0	21.2	NTU

Calibration Date: 9/1/22

Calibration Solution	Instrument Reading	
0.0	0.22	NTU
10.0	10.0	NTU
20.0	19.7	NTU

Calibration Date:

Calibration Solution	Instrument Reading	
0.0		NTU
10.0		NTU
20.0		NTU

Calibration Date:

Calibration Solution	Instrument Reading	
0.0		NTU
10.0		NTU
20.0		NTU

Calibration Date:

Calibration Solution	Instrument Reading	
0.0		NTU
10.0		NTU
20.0		NTU



Daily Instrument Calibration Log

SITE: Plant McIntosh
TECHNICIAN: H. Anich

INSTRUMENT S/N: 120506017705
INSTRUMENT TYPE: Hach 2100Q
CAL. SOLUTION: 0 NTU - LOT # — EXP. DATE: —
10 NTU - LOT # A1074 EXP. DATE: 09/24
20 NTU - LOT # A1075 EXP. DATE: 09/24

Calibration Date: 8-30-22

Calibration Solution	Instrument Reading	
0.0	0.7	NTU
10.0	10.7	NTU
20.0	19.7	NTU

Calibration Date: 8-31-22

Calibration Solution	Instrument Reading	
0.0	0.2	NTU
10.0	9.97	NTU
20.0	20.1	NTU

Calibration Date:

Calibration Solution	Instrument Reading	
0.0		NTU
10.0		NTU
20.0		NTU

Calibration Date:

Calibration Solution	Instrument Reading	
0.0		NTU
10.0		NTU
20.0		NTU

Calibration Date:

Calibration Solution	Instrument Reading	
0.0		NTU
10.0		NTU
20.0		NTU

Calibration Date:

Calibration Solution	Instrument Reading	
0.0		NTU
10.0		NTU
20.0		NTU

**Plant McIntosh Landfill No. 3
August 2022 Well Inspection Form**



Permit No.: 051-008D(LI)

1 - Location/Identification

		GWA-1A	GWA-1B	GWA-2B	GWA-3A	GWA-4	GWA-5	GWA-7A	GWC-1	GWC-1A	GWC-2	GWC-4A
a	Is the well visible and accessible?	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
b	Is the well properly identified with the correct well ID?	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
c	Does the well require protection from traffic?	No	No	No	No	No	No	No	No	No	No	No
d	Is the drainage around the well acceptable? (No standing water, nor is well located in obvious drainage flow path)	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes

NOTE: Form Derived from "Georgia EPD's Groundwater Monitoring Well Integrity Form".

**Plant McIntosh Landfill No. 3
August 2022 Well Inspection Form**



Permit No.: 051-008D(LI)

2 - Protective Outer Casing		GWA-1A	GWA-1B	GWA-2B	GWA-3A	GWA-4	GWA-5	GWA-7A	GWC-1	GWC-1A	GWC-2	GWC-4A
a	Is the protective casing free from apparent damage?	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
b	Is the casing free of degradation or deterioration?	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
c	Does the casing have a functioning weep hole?	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
d	Is the annular space between casings filled with pea gravel or sand?	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
e	Is the well locked, and is the lock in good working condition?	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes

NOTE: Form Derived from "Georgia EPD's Groundwater Monitoring Well Integrity Form".

**Plant McIntosh Landfill No. 3
August 2022 Well Inspection Form**



Permit No.: 051-008D(LI)

3 - Surface Pad

		GWA-1A	GWA-1B	GWA-2B	GWA-3A	GWA-4	GWA-5	GWA-7A	GWC-1	GWC-1A	GWC-2	GWC-4A
a	Is the well pad in good condition? (Not cracked or broken)	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
b	Does the well pad provide adequate surface seal and stability to the well?	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
c	Is the well pad in complete contact with the protective casing?	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
d	Is the well pad in complete contact with the ground surface? (Not undermined by erosion, animal burrows, and does not move when stepped on)	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
e	Is the pad surface clean? (Not covered by soil or debris)	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes

NOTE: Form Derived from "Georgia EPD's Groundwater Monitoring Well Integrity Form".

**Plant McIntosh Landfill No. 3
August 2022 Well Inspection Form**



Permit No.: 051-008D(LI)

4 - Internal Well Casing

		GWA-1A	GWA-1B	GWA-2B	GWA-3A	GWA-4	GWA-5	GWA-7A	GWC-1	GWC-1A	GWC-2	GWC-4A
a	Does the well cap prevent entry of foreign material into the well?	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
b	Is the casing free of kinks or bends, or any obstruction from foreign objects (such as bailers) ?	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
c	Does the well have a venting hole near the top of casing?	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
d	Is the survey point clearly marked on the inner casing?	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
e	Is the depth of the well consistent with the original well log?	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
f	Does the PVC casing move easily when touched or can it be taken apart by hand due to lack of grout or use of slip couplings in construction?	No	No	No	No	No	No	No	No	No	No	No

NOTE: Form Derived from "Georgia EPD's Groundwater Monitoring Well Integrity Form".

**Plant McIntosh Landfill No. 3
August 2022 Well Inspection Form**



Permit No.: 051-008D(LI)

5 - Sampling (Groundwater Monitoring Wells Only):

		GWA-1A	GWA-1B	GWA-2B	GWA-3A	GWA-4	GWA-5	GWA-7A	GWC-1	GWC-1A	GWC-2	GWC-4A
a	Does the well recharge adequately when purged?	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
b	If dedicated sampling equipment is installed, is it in good condition?	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
c	Does the well require redevelopment due to slow recharge or turbidity > 10 NTUs?	No	No	No	No	No	No	No	No	No	No	No

Note: N/A - Not Applicable

6 - Based on your professional judgment, is the well construction / location appropriate to:

	GWA-1A	GWA-1B	GWA-2B	GWA-3A	GWA-4	GWA-5	GWA-7A	GWC-1	GWC-1A	GWC-2	GWC-4A
1) achieve the objectives of the facility Groundwater Monitoring Program, and 2) comply with the applicable regulatory requirements?	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes

7 - Corrective actions completed and Notes:

Staff: A. Schnittker
Date: 8/30/2022

NOTE: Form Derived from "Georgia EPD's Groundwater Monitoring Well Integrity Form".

**Plant McIntosh Landfill No. 3
August 2022 Well Inspection Form**



Permit No.: 051-008D(LI)

1 - Location/Identification		GWC-5	GWC-5A	GWC-6	GWC-6A	PZ-1	PZ-2	PZ-3	PZ-4	PZ-5
a	Is the well visible and accessible?	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
b	Is the well properly identified with the correct well ID?	Yes	Yes	Yes	Yes	Yes	Yes	Yes	No	No
c	Does the well require protection from traffic?	No	No	No	No	No	No	No	No	No
d	Is the drainage around the well acceptable? (No standing water, nor is well located in obvious drainage flow path)	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes

NOTE: Form Derived from "Georgia EPD's Groundwater Monitoring Well Integrity Form".

**Plant McIntosh Landfill No. 3
August 2022 Well Inspection Form**



Permit No.: 051-008D(LI)

2 - Protective Outer Casing

		GWC-5	GWC-5A	GWC-6	GWC-6A	PZ-1	PZ-2	PZ-3	PZ-4	PZ-5
a	Is the protective casing free from apparent damage?	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
b	Is the casing free of degradation or deterioration?	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
c	Does the casing have a functioning weep hole?	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
d	Is the annular space between casings filled with pea gravel or sand?	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
e	Is the well locked, and is the lock in good working condition?	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes

NOTE: Form Derived from "Georgia EPD's Groundwater Monitoring Well Integrity Form".

**Plant McIntosh Landfill No. 3
August 2022 Well Inspection Form**



Permit No.: 051-008D(LI)

3 - Surface Pad

		GWC-5	GWC-5A	GWC-6	GWC-6A	PZ-1	PZ-2	PZ-3	PZ-4	PZ-5
a	Is the well pad in good condition? (Not cracked or broken)	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
b	Does the well pad provide adequate surface seal and stability to the well?	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
c	Is the well pad in complete contact with the protective casing?	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
d	Is the well pad in complete contact with the ground surface? (Not undermined by erosion, animal burrows, and does not move when stepped on)	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
e	Is the pad surface clean? (Not covered by soil or debris)	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes

NOTE: Form Derived from "Georgia EPD's Groundwater Monitoring Well Integrity Form".

**Plant McIntosh Landfill No. 3
August 2022 Well Inspection Form**



Permit No.: 051-008D(LI)

4 - Internal Well Casing

		GWC-5	GWC-5A	GWC-6	GWC-6A	PZ-1	PZ-2	PZ-3	PZ-4	PZ-5
a	Does the well cap prevent entry of foreign material into the well?	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
b	Is the casing free of kinks or bends, or any obstruction from foreign objects (such as bailers) ?	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
c	Does the well have a venting hole near the top of casing?	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
d	Is the survey point clearly marked on the inner casing?	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
e	Is the depth of the well consistent with the original well log?	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
f	Does the PVC casing move easily when touched or can it be taken apart by hand due to lack of grout or use of slip couplings in construction?	No	No	No	No	No	No	No	No	No

NOTE: Form Derived from "Georgia EPD's Groundwater Monitoring Well Integrity Form".

**Plant McIntosh Landfill No. 3
August 2022 Well Inspection Form**



Permit No.: 051-008D(LI)

5 - Sampling (Groundwater Monitoring Wells Only):

		GWC-5	GWC-5A	GWC-6	GWC-6A	PZ-1	PZ-2	PZ-3	PZ-4	PZ-5
a	Does the well recharge adequately when purged?	Yes	Yes	Yes	Yes	N/A	N/A	N/A	N/A	N/A
b	If dedicated sampling equipment is installed, is it in good condition?	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
c	Does the well require redevelopment due to slow recharge or turbidity > 10 NTUs?	No	No	No	No	N/A	N/A	N/A	N/A	N/A

Note: N/A - Not Applicable

6 - Based on your professional judgment, is the well construction / location appropriate to:

	GWC-5	GWC-5A	GWC-6	GWC-6A	PZ-1	PZ-2	PZ-3	PZ-4	PZ-5
1) achieve the objectives of the facility Groundwater Monitoring Program, and 2) comply with the applicable regulatory requirements?	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes

7 - Corrective actions completed and Notes:

Staff: A. Schnittker
Date: 8/30/2022

NOTE: Form Derived from "Georgia EPD's Groundwater Monitoring Well Integrity Form".

APPENDIX B

*Laboratory Analytical and Field Sampling Reports
January 2023 Monitoring Event*



ANALYTICAL REPORT

PREPARED FOR

Attn: Lauren Hartley
Southern Company
241 Ralph McGill Blvd SE
B10185
Atlanta, Georgia 30308

Generated 2/16/2023 5:52:49 AM Revision 1

JOB DESCRIPTION

Plant McIntosh Landfill #3

JOB NUMBER

680-229877-1

Eurofins Savannah

Job Notes

The test results in this report meet NELAP requirements for parameters for which accreditation is required or available. Any exceptions to the NELAP requirements are noted. Results pertain only to samples listed in this report. This report may not be reproduced, except in full, without the written approval of the laboratory. Questions should be directed to the person who signed this report.

The test results in this report relate only to the samples as received by the laboratory and will meet all requirements of the methodology, with any exceptions noted. This report shall not be reproduced except in full, without the express written approval of the laboratory. All questions should be directed to the Eurofins Environment Testing Southeast, LLC Project Manager.

Authorization



Authorized for release by
David Fuller, Project Manager
David.Fuller@et.eurofinsus.com
(770)344-8986

Generated
2/16/2023 5:52:49 AM
Revision 1

Definitions/Glossary

Client: Southern Company
Project/Site: Plant McIntosh Landfill #3

Job ID: 680-229877-1

Qualifiers

HPLC/IC

Qualifier	Qualifier Description
4	MS, MSD: The analyte present in the original sample is greater than 4 times the matrix spike concentration; therefore, control limits are not applicable.
F1	MS and/or MSD recovery exceeds control limits.
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

Metals

Qualifier	Qualifier Description
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

Glossary

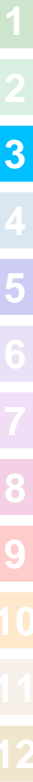
Abbreviation	These commonly used abbreviations may or may not be present in this report.
α	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CFL	Contains Free Liquid
CFU	Colony Forming Unit
CNF	Contains No Free Liquid
DER	Duplicate Error Ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL	Detection Limit (DoD/DOE)
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision Level Concentration (Radiochemistry)
EDL	Estimated Detection Limit (Dioxin)
LOD	Limit of Detection (DoD/DOE)
LOQ	Limit of Quantitation (DoD/DOE)
MCL	EPA recommended "Maximum Contaminant Level"
MDA	Minimum Detectable Activity (Radiochemistry)
MDC	Minimum Detectable Concentration (Radiochemistry)
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
MPN	Most Probable Number
MQL	Method Quantitation Limit
NC	Not Calculated
ND	Not Detected at the reporting limit (or MDL or EDL if shown)
NEG	Negative / Absent
POS	Positive / Present
PQL	Practical Quantitation Limit
PRES	Presumptive
QC	Quality Control
RER	Relative Error Ratio (Radiochemistry)
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)
TNTC	Too Numerous To Count

Sample Summary

Client: Southern Company
Project/Site: Plant McIntosh Landfill #3

Job ID: 680-229877-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
680-229877-1	MCI-GWA-1B	Water	01/31/23 14:15	02/02/23 11:39
680-229877-2	MCI-GWA-2B	Water	01/31/23 16:25	02/02/23 11:39
680-229877-3	MCI-GWA-7A	Water	01/31/23 16:40	02/02/23 11:39
680-229877-4	MCI-GWC-1A	Water	01/31/23 15:20	02/02/23 11:39
680-229877-5	MCI-GWC-5A	Water	01/31/23 14:10	02/02/23 11:39
680-229877-6	MCI-GWC-6A	Water	01/31/23 15:20	02/02/23 11:39
680-229877-7	MCI-LF3-FD-05	Water	01/31/23 00:00	02/02/23 11:39
680-229877-8	MCI-LF3-FB-09	Water	01/31/23 15:15	02/02/23 11:39
680-229877-9	MCI-GWA-3A	Water	02/01/23 11:05	02/02/23 11:39
680-229877-10	MCI-GWA-4	Water	02/01/23 09:50	02/02/23 11:39
680-229877-11	MCI-GWC-2	Water	02/01/23 12:05	02/02/23 11:39
680-229877-12	MCI-LF3-GWC-4A	Water	02/01/23 13:05	02/02/23 11:39
680-229877-13	MCI-LF3-FD-06	Water	02/01/23 00:00	02/02/23 11:39
680-229877-14	MCI-LF3-FB-10	Water	02/01/23 12:50	02/02/23 11:39
680-229877-15	MCI-LF3-EB-11	Water	02/01/23 09:05	02/02/23 11:39
680-229877-16	MCI-LF3-EB-12	Water	02/01/23 12:55	02/02/23 11:39
680-229877-17	MCI-LF3-GWA-5	Water	02/02/23 09:30	02/02/23 11:39



Case Narrative

Client: Southern Company
Project/Site: Plant McIntosh Landfill #3

Job ID: 680-229877-1

Job ID: 680-229877-1

Laboratory: Eurofins Savannah

Narrative

**Job Narrative
680-229877-1**

Revision 1

The report being provided is a revision of the original report sent on 2/14/2023. The report (revision 1) is being revised in order to add the reference for Eurofins Savannah's primary NELAP certification with the state of Florida to the Certification Summary section of the report..

Receipt

The samples were received on 2/2/2023 11:39 AM. Unless otherwise noted below, the samples arrived in good condition, and, where required, properly preserved and on ice. The temperatures of the 2 coolers at receipt time were 1.2°C and 1.9°C

HPLC/IC

Method 300_ORGFM_28D: The matrix spike / matrix spike duplicate (MS/MSD) recoveries for analytical batch 680-762438 were outside control limits for one or more analytes, see QC Sample Results for detail. Sample matrix interference and/or non-homogeneity are suspected because the associated laboratory control sample (LCS) recovery is within acceptance limits.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/ Glossary page.

Metals

No additional analytical or quality issues were noted, other than those described above or in the Definitions/ Glossary page.

General Chemistry

No additional analytical or quality issues were noted, other than those described above or in the Definitions/ Glossary page.



Client Sample Results

Client: Southern Company
Project/Site: Plant McIntosh Landfill #3

Job ID: 680-229877-1

Client Sample ID: MCI-GWA-1B

Lab Sample ID: 680-229877-1

Date Collected: 01/31/23 14:15

Matrix: Water

Date Received: 02/02/23 11:39

Method: MCAWW 300.0-1993 R2.1 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	8.0		1.0	0.20	mg/L			02/07/23 20:14	1
Fluoride	0.13		0.10	0.040	mg/L			02/07/23 20:14	1
Sulfate	1.0		1.0	0.40	mg/L			02/07/23 20:14	1

Method: SW846 6020B - Metals (ICP/MS) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Barium	0.024		0.010	0.00089	mg/L		02/03/23 06:43	02/03/23 12:37	1
Beryllium	<0.00020		0.0025	0.00020	mg/L		02/03/23 06:43	02/03/23 12:37	1
Boron	0.044	J	0.080	0.022	mg/L		02/03/23 06:43	02/03/23 12:37	1
Calcium	6.8		0.50	0.14	mg/L		02/03/23 06:43	02/03/23 12:37	1
Chromium	<0.0012		0.0020	0.0012	mg/L		02/03/23 06:43	02/03/23 12:37	1
Cobalt	0.00028	J	0.0025	0.00022	mg/L		02/03/23 06:43	02/03/23 12:37	1
Copper	<0.0011		0.0020	0.0011	mg/L		02/03/23 06:43	02/03/23 12:37	1
Lead	<0.00021		0.0010	0.00021	mg/L		02/03/23 06:43	02/03/23 12:37	1
Vanadium	<0.00063		0.0020	0.00063	mg/L		02/03/23 06:43	02/03/23 12:37	1
Zinc	<0.0028		0.0050	0.0028	mg/L		02/03/23 06:43	02/03/23 12:37	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids (SM 2540C-2011)	76		10	10	mg/L			02/03/23 12:24	1

Method: EPA Field Sampling - Field Sampling

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Field pH	6.15				SU			01/31/23 14:15	1

Client Sample ID: MCI-GWA-2B

Lab Sample ID: 680-229877-2

Date Collected: 01/31/23 16:25

Matrix: Water

Date Received: 02/02/23 11:39

Method: MCAWW 300.0-1993 R2.1 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	6.7		1.0	0.20	mg/L			02/07/23 20:54	1
Fluoride	<0.040		0.10	0.040	mg/L			02/07/23 20:54	1
Sulfate	71		1.0	0.40	mg/L			02/07/23 20:54	1

Method: SW846 6020B - Metals (ICP/MS) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Barium	0.036		0.010	0.00089	mg/L		02/03/23 06:43	02/03/23 12:49	1
Beryllium	0.0018	J	0.0025	0.00020	mg/L		02/03/23 06:43	02/03/23 12:49	1
Boron	0.99		0.080	0.022	mg/L		02/03/23 06:43	02/03/23 12:49	1
Calcium	16		0.50	0.14	mg/L		02/03/23 06:43	02/03/23 12:49	1
Chromium	0.0022		0.0020	0.0012	mg/L		02/03/23 06:43	02/03/23 12:49	1
Cobalt	0.0041		0.0025	0.00022	mg/L		02/03/23 06:43	02/03/23 12:49	1
Copper	<0.0011		0.0020	0.0011	mg/L		02/03/23 06:43	02/03/23 12:49	1
Lead	<0.00021		0.0010	0.00021	mg/L		02/03/23 06:43	02/03/23 12:49	1
Vanadium	<0.00063		0.0020	0.00063	mg/L		02/03/23 06:43	02/03/23 12:49	1
Zinc	0.012		0.0050	0.0028	mg/L		02/03/23 06:43	02/03/23 12:49	1

Eurofins Savannah

Client Sample Results

Client: Southern Company
Project/Site: Plant McIntosh Landfill #3

Job ID: 680-229877-1

Client Sample ID: MCI-GWA-2B

Lab Sample ID: 680-229877-2

Date Collected: 01/31/23 16:25

Matrix: Water

Date Received: 02/02/23 11:39

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids (SM 2540C-2011)	140		10	10	mg/L			02/03/23 12:24	1

Method: EPA Field Sampling - Field Sampling

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Field pH	5.07				SU			01/31/23 16:25	1

Client Sample ID: MCI-GWA-7A

Lab Sample ID: 680-229877-3

Date Collected: 01/31/23 16:40

Matrix: Water

Date Received: 02/02/23 11:39

Method: MCAWW 300.0-1993 R2.1 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	7.9		1.0	0.20	mg/L			02/07/23 21:07	1
Fluoride	<0.040		0.10	0.040	mg/L			02/07/23 21:07	1
Sulfate	74		1.0	0.40	mg/L			02/07/23 21:07	1

Method: SW846 6020B - Metals (ICP/MS) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Barium	0.043		0.010	0.00089	mg/L		02/03/23 06:43	02/03/23 12:53	1
Beryllium	0.00056	J	0.0025	0.00020	mg/L		02/03/23 06:43	02/03/23 12:53	1
Boron	1.3		0.080	0.022	mg/L		02/03/23 06:43	02/03/23 12:53	1
Calcium	15		0.50	0.14	mg/L		02/03/23 06:43	02/03/23 12:53	1
Chromium	<0.0012		0.0020	0.0012	mg/L		02/03/23 06:43	02/03/23 12:53	1
Cobalt	0.0023	J	0.0025	0.00022	mg/L		02/03/23 06:43	02/03/23 12:53	1
Copper	<0.0011		0.0020	0.0011	mg/L		02/03/23 06:43	02/03/23 12:53	1
Lead	<0.00021		0.0010	0.00021	mg/L		02/03/23 06:43	02/03/23 12:53	1
Vanadium	<0.00063		0.0020	0.00063	mg/L		02/03/23 06:43	02/03/23 12:53	1
Zinc	0.0082		0.0050	0.0028	mg/L		02/03/23 06:43	02/03/23 12:53	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids (SM 2540C-2011)	150		10	10	mg/L			02/03/23 12:24	1

Method: EPA Field Sampling - Field Sampling

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Field pH	5.00				SU			01/31/23 16:40	1

Client Sample ID: MCI-GWC-1A

Lab Sample ID: 680-229877-4

Date Collected: 01/31/23 15:20

Matrix: Water

Date Received: 02/02/23 11:39

Method: MCAWW 300.0-1993 R2.1 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	14		1.0	0.20	mg/L			02/07/23 21:20	1
Fluoride	0.074	J	0.10	0.040	mg/L			02/07/23 21:20	1
Sulfate	<0.40		1.0	0.40	mg/L			02/07/23 21:20	1

Method: SW846 6020B - Metals (ICP/MS) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Barium	0.27		0.010	0.00089	mg/L		02/03/23 06:43	02/03/23 12:57	1

Eurofins Savannah

Client Sample Results

Client: Southern Company
Project/Site: Plant McIntosh Landfill #3

Job ID: 680-229877-1

Client Sample ID: MCI-GWC-1A

Lab Sample ID: 680-229877-4

Date Collected: 01/31/23 15:20

Matrix: Water

Date Received: 02/02/23 11:39

Method: SW846 6020B - Metals (ICP/MS) - Total Recoverable (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Beryllium	0.00043	J	0.0025	0.00020	mg/L		02/03/23 06:43	02/03/23 12:57	1
Boron	0.094		0.080	0.022	mg/L		02/03/23 06:43	02/03/23 12:57	1
Calcium	2.6		0.50	0.14	mg/L		02/03/23 06:43	02/03/23 12:57	1
Chromium	<0.0012		0.0020	0.0012	mg/L		02/03/23 06:43	02/03/23 12:57	1
Cobalt	0.0046		0.0025	0.00022	mg/L		02/03/23 06:43	02/03/23 12:57	1
Copper	<0.0011		0.0020	0.0011	mg/L		02/03/23 06:43	02/03/23 12:57	1
Lead	<0.00021		0.0010	0.00021	mg/L		02/03/23 06:43	02/03/23 12:57	1
Vanadium	<0.00063		0.0020	0.00063	mg/L		02/03/23 06:43	02/03/23 12:57	1
Zinc	0.018		0.0050	0.0028	mg/L		02/03/23 06:43	02/03/23 12:57	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids (SM 2540C-2011)	57		10	10	mg/L			02/03/23 12:24	1

Method: EPA Field Sampling - Field Sampling

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Field pH	4.43				SU			01/31/23 15:20	1

Client Sample ID: MCI-GWC-5A

Lab Sample ID: 680-229877-5

Date Collected: 01/31/23 14:10

Matrix: Water

Date Received: 02/02/23 11:39

Method: MCAWW 300.0-1993 R2.1 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	4.5		1.0	0.20	mg/L			02/08/23 12:41	1
Fluoride	<0.040		0.10	0.040	mg/L			02/08/23 12:41	1
Sulfate	<0.40		1.0	0.40	mg/L			02/08/23 12:41	1

Method: SW846 6020B - Metals (ICP/MS) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Barium	0.070		0.010	0.00089	mg/L		02/03/23 06:43	02/03/23 13:01	1
Beryllium	0.00023	J	0.0025	0.00020	mg/L		02/03/23 06:43	02/03/23 13:01	1
Boron	0.033	J	0.080	0.022	mg/L		02/03/23 06:43	02/03/23 13:01	1
Calcium	1.0		0.50	0.14	mg/L		02/03/23 06:43	02/03/23 13:01	1
Chromium	<0.0012		0.0020	0.0012	mg/L		02/03/23 06:43	02/03/23 13:01	1
Cobalt	0.0021	J	0.0025	0.00022	mg/L		02/03/23 06:43	02/03/23 13:01	1
Copper	<0.0011		0.0020	0.0011	mg/L		02/03/23 06:43	02/03/23 13:01	1
Lead	<0.00021		0.0010	0.00021	mg/L		02/03/23 06:43	02/03/23 13:01	1
Vanadium	<0.00063		0.0020	0.00063	mg/L		02/03/23 06:43	02/03/23 13:01	1
Zinc	0.0088		0.0050	0.0028	mg/L		02/03/23 06:43	02/03/23 13:01	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids (SM 2540C-2011)	25		10	10	mg/L			02/03/23 12:24	1

Method: EPA Field Sampling - Field Sampling

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Field pH	4.85				SU			01/31/23 14:10	1

Eurofins Savannah

Client Sample Results

Client: Southern Company
Project/Site: Plant McIntosh Landfill #3

Job ID: 680-229877-1

Client Sample ID: MCI-GWC-6A

Lab Sample ID: 680-229877-6

Date Collected: 01/31/23 15:20

Matrix: Water

Date Received: 02/02/23 11:39

Method: MCAWW 300.0-1993 R2.1 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	9.7		1.0	0.20	mg/L			02/08/23 13:20	1
Fluoride	<0.040		0.10	0.040	mg/L			02/08/23 13:20	1
Sulfate	3.3		1.0	0.40	mg/L			02/08/23 13:20	1

Method: SW846 6020B - Metals (ICP/MS) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Barium	0.083		0.010	0.00089	mg/L		02/03/23 06:43	02/03/23 13:05	1
Beryllium	0.00031	J	0.0025	0.00020	mg/L		02/03/23 06:43	02/03/23 13:05	1
Boron	0.047	J	0.080	0.022	mg/L		02/03/23 06:43	02/03/23 13:05	1
Calcium	3.1		0.50	0.14	mg/L		02/03/23 06:43	02/03/23 13:05	1
Chromium	<0.0012		0.0020	0.0012	mg/L		02/03/23 06:43	02/03/23 13:05	1
Cobalt	0.0011	J	0.0025	0.00022	mg/L		02/03/23 06:43	02/03/23 13:05	1
Copper	<0.0011		0.0020	0.0011	mg/L		02/03/23 06:43	02/03/23 13:05	1
Lead	<0.00021		0.0010	0.00021	mg/L		02/03/23 06:43	02/03/23 13:05	1
Vanadium	<0.00063		0.0020	0.00063	mg/L		02/03/23 06:43	02/03/23 13:05	1
Zinc	<0.0028		0.0050	0.0028	mg/L		02/03/23 06:43	02/03/23 13:05	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids (SM 2540C-2011)	71		10	10	mg/L			02/03/23 12:24	1

Method: EPA Field Sampling - Field Sampling

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Field pH	5.32				SU			01/31/23 15:20	1

Client Sample ID: MCI-LF3-FD-05

Lab Sample ID: 680-229877-7

Date Collected: 01/31/23 00:00

Matrix: Water

Date Received: 02/02/23 11:39

Method: MCAWW 300.0-1993 R2.1 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	13		1.0	0.20	mg/L			02/08/23 18:23	1
Fluoride	0.072	J F1	0.10	0.040	mg/L			02/08/23 18:23	1
Sulfate	<0.40		1.0	0.40	mg/L			02/08/23 18:23	1

Method: SW846 6020B - Metals (ICP/MS) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Barium	0.27		0.010	0.00089	mg/L		02/03/23 06:43	02/03/23 13:18	1
Beryllium	0.00040	J	0.0025	0.00020	mg/L		02/03/23 06:43	02/03/23 13:18	1
Boron	0.081		0.080	0.022	mg/L		02/03/23 06:43	02/03/23 13:18	1
Calcium	2.6		0.50	0.14	mg/L		02/03/23 06:43	02/03/23 13:18	1
Chromium	0.0012	J	0.0020	0.0012	mg/L		02/03/23 06:43	02/03/23 13:18	1
Cobalt	0.0048		0.0025	0.00022	mg/L		02/03/23 06:43	02/03/23 13:18	1
Copper	<0.0011		0.0020	0.0011	mg/L		02/03/23 06:43	02/03/23 13:18	1
Lead	<0.00021		0.0010	0.00021	mg/L		02/03/23 06:43	02/03/23 13:18	1
Vanadium	<0.00063		0.0020	0.00063	mg/L		02/03/23 06:43	02/03/23 13:18	1
Zinc	0.018		0.0050	0.0028	mg/L		02/03/23 06:43	02/03/23 13:18	1

Eurofins Savannah

Client Sample Results

Client: Southern Company
Project/Site: Plant McIntosh Landfill #3

Job ID: 680-229877-1

Client Sample ID: MCI-LF3-FD-05

Lab Sample ID: 680-229877-7

Date Collected: 01/31/23 00:00

Matrix: Water

Date Received: 02/02/23 11:39

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids (SM 2540C-2011)	54		10	10	mg/L			02/03/23 12:24	1

Client Sample ID: MCI-LF3-FB-09

Lab Sample ID: 680-229877-8

Date Collected: 01/31/23 15:15

Matrix: Water

Date Received: 02/02/23 11:39

Method: MCAWW 300.0-1993 R2.1 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	<0.20		1.0	0.20	mg/L			02/08/23 19:02	1
Fluoride	<0.040		0.10	0.040	mg/L			02/08/23 19:02	1
Sulfate	<0.40		1.0	0.40	mg/L			02/08/23 19:02	1

Method: SW846 6020B - Metals (ICP/MS) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Barium	<0.00089		0.010	0.00089	mg/L		02/03/23 06:43	02/03/23 13:22	1
Beryllium	<0.00020		0.0025	0.00020	mg/L		02/03/23 06:43	02/03/23 13:22	1
Boron	<0.022		0.080	0.022	mg/L		02/03/23 06:43	02/03/23 13:22	1
Calcium	<0.14		0.50	0.14	mg/L		02/03/23 06:43	02/03/23 13:22	1
Chromium	<0.0012		0.0020	0.0012	mg/L		02/03/23 06:43	02/03/23 13:22	1
Cobalt	<0.00022		0.0025	0.00022	mg/L		02/03/23 06:43	02/03/23 13:22	1
Copper	<0.0011		0.0020	0.0011	mg/L		02/03/23 06:43	02/03/23 13:22	1
Lead	<0.00021		0.0010	0.00021	mg/L		02/03/23 06:43	02/03/23 13:22	1
Vanadium	<0.00063		0.0020	0.00063	mg/L		02/03/23 06:43	02/03/23 13:22	1
Zinc	<0.0028		0.0050	0.0028	mg/L		02/03/23 06:43	02/03/23 13:22	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids (SM 2540C-2011)	<10		10	10	mg/L			02/03/23 12:24	1

Client Sample ID: MCI-GWA-3A

Lab Sample ID: 680-229877-9

Date Collected: 02/01/23 11:05

Matrix: Water

Date Received: 02/02/23 11:39

Method: MCAWW 300.0-1993 R2.1 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	30		1.0	0.20	mg/L			02/08/23 19:15	1
Fluoride	<0.040		0.10	0.040	mg/L			02/08/23 19:15	1
Sulfate	<0.40		1.0	0.40	mg/L			02/08/23 19:15	1

Method: SW846 6020B - Metals (ICP/MS) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Barium	0.13		0.010	0.00089	mg/L		02/03/23 06:43	02/03/23 13:26	1
Beryllium	0.00078	J	0.0025	0.00020	mg/L		02/03/23 06:43	02/03/23 13:26	1
Boron	0.087		0.080	0.022	mg/L		02/03/23 06:43	02/03/23 13:26	1
Calcium	4.6		0.50	0.14	mg/L		02/03/23 06:43	02/03/23 13:26	1
Chromium	0.0016	J	0.0020	0.0012	mg/L		02/03/23 06:43	02/03/23 13:26	1
Cobalt	0.0027		0.0025	0.00022	mg/L		02/03/23 06:43	02/03/23 13:26	1
Copper	<0.0011		0.0020	0.0011	mg/L		02/03/23 06:43	02/03/23 13:26	1
Lead	0.00027	J	0.0010	0.00021	mg/L		02/03/23 06:43	02/03/23 13:26	1
Vanadium	<0.00063		0.0020	0.00063	mg/L		02/03/23 06:43	02/03/23 13:26	1

Eurofins Savannah

Client Sample Results

Client: Southern Company
Project/Site: Plant McIntosh Landfill #3

Job ID: 680-229877-1

Client Sample ID: MCI-GWA-3A

Lab Sample ID: 680-229877-9

Date Collected: 02/01/23 11:05

Matrix: Water

Date Received: 02/02/23 11:39

Method: SW846 6020B - Metals (ICP/MS) - Total Recoverable (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Zinc	0.0071		0.0050	0.0028	mg/L		02/03/23 06:43	02/03/23 13:26	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids (SM 2540C-2011)	85		10	10	mg/L			02/03/23 12:24	1

Method: EPA Field Sampling - Field Sampling

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Field pH	4.52				SU			02/01/23 11:05	1

Client Sample ID: MCI-GWA-4

Lab Sample ID: 680-229877-10

Date Collected: 02/01/23 09:50

Matrix: Water

Date Received: 02/02/23 11:39

Method: MCAWW 300.0-1993 R2.1 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	4.5		1.0	0.20	mg/L			02/08/23 19:29	1
Fluoride	0.043	J	0.10	0.040	mg/L			02/08/23 19:29	1
Sulfate	3.1		1.0	0.40	mg/L			02/08/23 19:29	1

Method: SW846 6020B - Metals (ICP/MS) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Barium	0.050		0.010	0.00089	mg/L		02/03/23 06:43	02/03/23 13:30	1
Beryllium	0.00024	J	0.0025	0.00020	mg/L		02/03/23 06:43	02/03/23 13:30	1
Boron	0.023	J	0.080	0.022	mg/L		02/03/23 06:43	02/03/23 13:30	1
Calcium	1.4		0.50	0.14	mg/L		02/03/23 06:43	02/03/23 13:30	1
Chromium	0.0016	J	0.0020	0.0012	mg/L		02/03/23 06:43	02/03/23 13:30	1
Cobalt	0.0012	J	0.0025	0.00022	mg/L		02/03/23 06:43	02/03/23 13:30	1
Copper	<0.0011		0.0020	0.0011	mg/L		02/03/23 06:43	02/03/23 13:30	1
Lead	<0.00021		0.0010	0.00021	mg/L		02/03/23 06:43	02/03/23 13:30	1
Vanadium	<0.00063		0.0020	0.00063	mg/L		02/03/23 06:43	02/03/23 13:30	1
Zinc	0.0089		0.0050	0.0028	mg/L		02/03/23 06:43	02/03/23 13:30	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids (SM 2540C-2011)	34		10	10	mg/L			02/03/23 12:24	1

Method: EPA Field Sampling - Field Sampling

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Field pH	4.77				SU			02/01/23 09:50	1

Client Sample ID: MCI-GWC-2

Lab Sample ID: 680-229877-11

Date Collected: 02/01/23 12:05

Matrix: Water

Date Received: 02/02/23 11:39

Method: MCAWW 300.0-1993 R2.1 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	4.8		1.0	0.20	mg/L			02/08/23 19:42	1
Fluoride	<0.040		0.10	0.040	mg/L			02/08/23 19:42	1
Sulfate	1.3		1.0	0.40	mg/L			02/08/23 19:42	1

Eurofins Savannah

Client Sample Results

Client: Southern Company
Project/Site: Plant McIntosh Landfill #3

Job ID: 680-229877-1

Client Sample ID: MCI-GWC-2

Lab Sample ID: 680-229877-11

Date Collected: 02/01/23 12:05

Matrix: Water

Date Received: 02/02/23 11:39

Method: SW846 6020B - Metals (ICP/MS) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Barium	0.063		0.010	0.00089	mg/L		02/03/23 06:43	02/03/23 13:34	1
Beryllium	0.00024	J	0.0025	0.00020	mg/L		02/03/23 06:43	02/03/23 13:34	1
Boron	0.091		0.080	0.022	mg/L		02/03/23 06:43	02/03/23 13:34	1
Calcium	1.3		0.50	0.14	mg/L		02/03/23 06:43	02/03/23 13:34	1
Chromium	0.0037		0.0020	0.0012	mg/L		02/03/23 06:43	02/03/23 13:34	1
Cobalt	0.0013	J	0.0025	0.00022	mg/L		02/03/23 06:43	02/03/23 13:34	1
Copper	<0.0011		0.0020	0.0011	mg/L		02/03/23 06:43	02/03/23 13:34	1
Lead	<0.00021		0.0010	0.00021	mg/L		02/03/23 06:43	02/03/23 13:34	1
Vanadium	<0.00063		0.0020	0.00063	mg/L		02/03/23 06:43	02/03/23 13:34	1
Zinc	0.0062		0.0050	0.0028	mg/L		02/03/23 06:43	02/03/23 13:34	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids (SM 2540C-2011)	36		10	10	mg/L			02/03/23 12:24	1

Method: EPA Field Sampling - Field Sampling

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Field pH	4.83				SU			02/01/23 12:05	1

Client Sample ID: MCI-LF3-GWC-4A

Lab Sample ID: 680-229877-12

Date Collected: 02/01/23 13:05

Matrix: Water

Date Received: 02/02/23 11:39

Method: MCAWW 300.0-1993 R2.1 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	4.3		1.0	0.20	mg/L			02/08/23 19:55	1
Fluoride	<0.040		0.10	0.040	mg/L			02/08/23 19:55	1
Sulfate	<0.40		1.0	0.40	mg/L			02/08/23 19:55	1

Method: SW846 6020B - Metals (ICP/MS) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Barium	0.034		0.010	0.00089	mg/L		02/03/23 06:43	02/03/23 13:38	1
Beryllium	<0.00020		0.0025	0.00020	mg/L		02/03/23 06:43	02/03/23 13:38	1
Boron	<0.022		0.080	0.022	mg/L		02/03/23 06:43	02/03/23 13:38	1
Calcium	0.34	J	0.50	0.14	mg/L		02/03/23 06:43	02/03/23 13:38	1
Chromium	<0.0012		0.0020	0.0012	mg/L		02/03/23 06:43	02/03/23 13:38	1
Cobalt	0.00047	J	0.0025	0.00022	mg/L		02/03/23 06:43	02/03/23 13:38	1
Copper	<0.0011		0.0020	0.0011	mg/L		02/03/23 06:43	02/03/23 13:38	1
Lead	<0.00021		0.0010	0.00021	mg/L		02/03/23 06:43	02/03/23 13:38	1
Vanadium	<0.00063		0.0020	0.00063	mg/L		02/03/23 06:43	02/03/23 13:38	1
Zinc	<0.0028		0.0050	0.0028	mg/L		02/03/23 06:43	02/03/23 13:38	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids (SM 2540C-2011)	18		10	10	mg/L			02/03/23 12:24	1

Method: EPA Field Sampling - Field Sampling

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Field pH	4.60				SU			02/01/23 12:50	1

Eurofins Savannah

Client Sample Results

Client: Southern Company
Project/Site: Plant McIntosh Landfill #3

Job ID: 680-229877-1

Client Sample ID: MCI-LF3-FD-06

Lab Sample ID: 680-229877-13

Date Collected: 02/01/23 00:00

Matrix: Water

Date Received: 02/02/23 11:39

Method: MCAWW 300.0-1993 R2.1 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	4.8		1.0	0.20	mg/L			02/08/23 20:08	1
Fluoride	<0.040		0.10	0.040	mg/L			02/08/23 20:08	1
Sulfate	1.4		1.0	0.40	mg/L			02/08/23 20:08	1

Method: SW846 6020B - Metals (ICP/MS) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Barium	0.065		0.010	0.00089	mg/L		02/03/23 06:43	02/03/23 13:42	1
Beryllium	0.00021	J	0.0025	0.00020	mg/L		02/03/23 06:43	02/03/23 13:42	1
Boron	0.091		0.080	0.022	mg/L		02/03/23 06:43	02/03/23 13:42	1
Calcium	1.4		0.50	0.14	mg/L		02/03/23 06:43	02/03/23 13:42	1
Chromium	0.0039		0.0020	0.0012	mg/L		02/03/23 06:43	02/03/23 13:42	1
Cobalt	0.0013	J	0.0025	0.00022	mg/L		02/03/23 06:43	02/03/23 13:42	1
Copper	<0.0011		0.0020	0.0011	mg/L		02/03/23 06:43	02/03/23 13:42	1
Lead	<0.00021		0.0010	0.00021	mg/L		02/03/23 06:43	02/03/23 13:42	1
Vanadium	<0.00063		0.0020	0.00063	mg/L		02/03/23 06:43	02/03/23 13:42	1
Zinc	0.0056		0.0050	0.0028	mg/L		02/03/23 06:43	02/03/23 13:42	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids (SM 2540C-2011)	36		10	10	mg/L			02/03/23 12:24	1

Client Sample ID: MCI-LF3-FB-10

Lab Sample ID: 680-229877-14

Date Collected: 02/01/23 12:50

Matrix: Water

Date Received: 02/02/23 11:39

Method: MCAWW 300.0-1993 R2.1 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	<0.20		1.0	0.20	mg/L			02/08/23 20:21	1
Fluoride	<0.040		0.10	0.040	mg/L			02/08/23 20:21	1
Sulfate	<0.40		1.0	0.40	mg/L			02/08/23 20:21	1

Method: SW846 6020B - Metals (ICP/MS) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Barium	<0.00089		0.010	0.00089	mg/L		02/03/23 06:43	02/03/23 13:46	1
Beryllium	<0.00020		0.0025	0.00020	mg/L		02/03/23 06:43	02/03/23 13:46	1
Boron	<0.022		0.080	0.022	mg/L		02/03/23 06:43	02/03/23 13:46	1
Calcium	<0.14		0.50	0.14	mg/L		02/03/23 06:43	02/03/23 13:46	1
Chromium	<0.0012		0.0020	0.0012	mg/L		02/03/23 06:43	02/03/23 13:46	1
Cobalt	<0.00022		0.0025	0.00022	mg/L		02/03/23 06:43	02/03/23 13:46	1
Copper	<0.0011		0.0020	0.0011	mg/L		02/03/23 06:43	02/03/23 13:46	1
Lead	<0.00021		0.0010	0.00021	mg/L		02/03/23 06:43	02/03/23 13:46	1
Vanadium	<0.00063		0.0020	0.00063	mg/L		02/03/23 06:43	02/03/23 13:46	1
Zinc	<0.0028		0.0050	0.0028	mg/L		02/03/23 06:43	02/03/23 13:46	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids (SM 2540C-2011)	<10		10	10	mg/L			02/03/23 12:24	1

Eurofins Savannah

Client Sample Results

Client: Southern Company
Project/Site: Plant McIntosh Landfill #3

Job ID: 680-229877-1

Client Sample ID: MCI-LF3-EB-11

Lab Sample ID: 680-229877-15

Date Collected: 02/01/23 09:05

Matrix: Water

Date Received: 02/02/23 11:39

Method: MCAWW 300.0-1993 R2.1 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	<0.20		1.0	0.20	mg/L			02/08/23 20:34	1
Fluoride	<0.040		0.10	0.040	mg/L			02/08/23 20:34	1
Sulfate	<0.40		1.0	0.40	mg/L			02/08/23 20:34	1

Method: SW846 6020B - Metals (ICP/MS) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Barium	<0.00089		0.010	0.00089	mg/L		02/03/23 06:43	02/03/23 13:54	1
Beryllium	<0.00020		0.0025	0.00020	mg/L		02/03/23 06:43	02/03/23 13:54	1
Boron	<0.022		0.080	0.022	mg/L		02/03/23 06:43	02/03/23 13:54	1
Calcium	<0.14		0.50	0.14	mg/L		02/03/23 06:43	02/03/23 13:54	1
Chromium	<0.0012		0.0020	0.0012	mg/L		02/03/23 06:43	02/03/23 13:54	1
Cobalt	<0.00022		0.0025	0.00022	mg/L		02/03/23 06:43	02/03/23 13:54	1
Copper	<0.0011		0.0020	0.0011	mg/L		02/03/23 06:43	02/03/23 13:54	1
Lead	<0.00021		0.0010	0.00021	mg/L		02/03/23 06:43	02/03/23 13:54	1
Vanadium	<0.00063		0.0020	0.00063	mg/L		02/03/23 06:43	02/03/23 13:54	1
Zinc	<0.0028		0.0050	0.0028	mg/L		02/03/23 06:43	02/03/23 13:54	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids (SM 2540C-2011)	<10		10	10	mg/L			02/03/23 12:24	1

Client Sample ID: MCI-LF3-EB-12

Lab Sample ID: 680-229877-16

Date Collected: 02/01/23 12:55

Matrix: Water

Date Received: 02/02/23 11:39

Method: MCAWW 300.0-1993 R2.1 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	<0.20		1.0	0.20	mg/L			02/08/23 20:48	1
Fluoride	<0.040		0.10	0.040	mg/L			02/08/23 20:48	1
Sulfate	<0.40		1.0	0.40	mg/L			02/08/23 20:48	1

Method: SW846 6020B - Metals (ICP/MS) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Barium	<0.00089		0.010	0.00089	mg/L		02/03/23 06:43	02/03/23 14:07	1
Beryllium	<0.00020		0.0025	0.00020	mg/L		02/03/23 06:43	02/03/23 14:07	1
Boron	<0.022		0.080	0.022	mg/L		02/03/23 06:43	02/03/23 14:07	1
Calcium	<0.14		0.50	0.14	mg/L		02/03/23 06:43	02/03/23 14:07	1
Chromium	<0.0012		0.0020	0.0012	mg/L		02/03/23 06:43	02/03/23 14:07	1
Cobalt	<0.00022		0.0025	0.00022	mg/L		02/03/23 06:43	02/03/23 14:07	1
Copper	<0.0011		0.0020	0.0011	mg/L		02/03/23 06:43	02/03/23 14:07	1
Lead	<0.00021		0.0010	0.00021	mg/L		02/03/23 06:43	02/03/23 14:07	1
Vanadium	<0.00063		0.0020	0.00063	mg/L		02/03/23 06:43	02/03/23 14:07	1
Zinc	<0.0028		0.0050	0.0028	mg/L		02/03/23 06:43	02/03/23 14:07	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids (SM 2540C-2011)	<10		10	10	mg/L			02/03/23 12:24	1

Eurofins Savannah

Client Sample Results

Client: Southern Company
Project/Site: Plant McIntosh Landfill #3

Job ID: 680-229877-1

Client Sample ID: MCI-LF3-GWA-5

Lab Sample ID: 680-229877-17

Date Collected: 02/02/23 09:30

Matrix: Water

Date Received: 02/02/23 11:39

Method: MCAWW 300.0-1993 R2.1 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	15		1.0	0.20	mg/L			02/08/23 21:27	1
Fluoride	0.12		0.10	0.040	mg/L			02/08/23 21:27	1
Sulfate	15		1.0	0.40	mg/L			02/08/23 21:27	1

Method: SW846 6020B - Metals (ICP/MS) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Barium	0.13		0.010	0.00089	mg/L		02/03/23 10:05	02/03/23 17:22	1
Beryllium	0.00050	J	0.0025	0.00020	mg/L		02/03/23 10:05	02/03/23 17:22	1
Boron	0.039	J	0.080	0.022	mg/L		02/03/23 10:05	02/03/23 17:22	1
Calcium	3.7		0.50	0.14	mg/L		02/03/23 10:05	02/03/23 17:22	1
Chromium	0.0023		0.0020	0.0012	mg/L		02/03/23 10:05	02/03/23 17:22	1
Cobalt	0.0017	J	0.0025	0.00022	mg/L		02/03/23 10:05	02/03/23 17:22	1
Copper	0.0018	J	0.0020	0.0011	mg/L		02/03/23 10:05	02/03/23 17:22	1
Lead	0.0013		0.0010	0.00021	mg/L		02/03/23 10:05	02/03/23 17:22	1
Vanadium	0.0041		0.0020	0.00063	mg/L		02/03/23 10:05	02/03/23 17:22	1
Zinc	0.0095		0.0050	0.0028	mg/L		02/03/23 10:05	02/03/23 17:22	1

Method: SW846 6020B - Metals (ICP/MS) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Barium, Dissolved	0.14		0.010	0.00089	mg/L		02/03/23 06:43	02/03/23 14:11	1
Beryllium, Dissolved	0.00031	J	0.0025	0.00020	mg/L		02/03/23 06:43	02/03/23 14:11	1
Boron, Dissolved	0.037	J	0.080	0.022	mg/L		02/03/23 06:43	02/03/23 14:11	1
Calcium, Dissolved	3.7		0.50	0.14	mg/L		02/03/23 06:43	02/03/23 14:11	1
Chromium, Dissolved	0.0012	J	0.0020	0.0012	mg/L		02/03/23 06:43	02/03/23 14:11	1
Cobalt, Dissolved	0.0017	J	0.0025	0.00022	mg/L		02/03/23 06:43	02/03/23 14:11	1
Copper, Dissolved	<0.0011		0.0020	0.0011	mg/L		02/03/23 06:43	02/03/23 14:11	1
Lead, Dissolved	0.00032	J	0.0010	0.00021	mg/L		02/03/23 06:43	02/03/23 14:11	1
Vanadium, Dissolved	<0.00063		0.0020	0.00063	mg/L		02/03/23 06:43	02/03/23 14:11	1
Zinc, Dissolved	0.010		0.0050	0.0028	mg/L		02/03/23 06:43	02/03/23 14:11	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids (SM 2540C-2011)	65		10	10	mg/L			02/08/23 11:26	1

Method: EPA Field Sampling - Field Sampling

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Field pH	4.59				SU			02/02/23 09:30	1

QC Sample Results

Client: Southern Company
Project/Site: Plant McIntosh Landfill #3

Job ID: 680-229877-1

Method: 300.0-1993 R2.1 - Anions, Ion Chromatography

Lab Sample ID: MB 680-762266/33
Matrix: Water
Analysis Batch: 762266

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	<0.20		1.0	0.20	mg/L			02/07/23 18:16	1
Fluoride	<0.040		0.10	0.040	mg/L			02/07/23 18:16	1
Sulfate	<0.40		1.0	0.40	mg/L			02/07/23 18:16	1

Lab Sample ID: LCS 680-762266/50
Matrix: Water
Analysis Batch: 762266

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Chloride	10.0	10.5		mg/L		105	90 - 110
Fluoride	2.00	2.15		mg/L		107	90 - 110
Sulfate	10.0	9.72		mg/L		97	90 - 110

Lab Sample ID: LCSD 680-762266/51
Matrix: Water
Analysis Batch: 762266

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chloride	10.0	10.5		mg/L		105	90 - 110	0	15
Fluoride	2.00	2.16		mg/L		108	90 - 110	1	15
Sulfate	10.0	9.81		mg/L		98	90 - 110	1	15

Lab Sample ID: 680-229877-1 MS
Matrix: Water
Analysis Batch: 762266

Client Sample ID: MCI-GWA-1B
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Chloride	8.0		10.0	18.5		mg/L		106	80 - 120
Fluoride	0.13		2.00	2.29		mg/L		108	80 - 120
Sulfate	1.0		10.0	11.2		mg/L		102	80 - 120

Lab Sample ID: 680-229877-1 MSD
Matrix: Water
Analysis Batch: 762266

Client Sample ID: MCI-GWA-1B
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chloride	8.0		10.0	18.9		mg/L		109	80 - 120	2	15
Fluoride	0.13		2.00	2.36		mg/L		111	80 - 120	3	15
Sulfate	1.0		10.0	11.5		mg/L		105	80 - 120	3	15

Lab Sample ID: MB 680-762437/2
Matrix: Water
Analysis Batch: 762437

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	<0.20		1.0	0.20	mg/L			02/08/23 10:44	1
Fluoride	<0.040		0.10	0.040	mg/L			02/08/23 10:44	1
Sulfate	<0.40		1.0	0.40	mg/L			02/08/23 10:44	1

Eurofins Savannah

QC Sample Results

Client: Southern Company
Project/Site: Plant McIntosh Landfill #3

Job ID: 680-229877-1

Method: 300.0-1993 R2.1 - Anions, Ion Chromatography (Continued)

Lab Sample ID: LCS 680-762437/4
Matrix: Water
Analysis Batch: 762437

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Chloride	10.0	10.1		mg/L		101	90 - 110
Fluoride	2.00	2.12		mg/L		106	90 - 110
Sulfate	10.0	9.82		mg/L		98	90 - 110

Lab Sample ID: LCSD 680-762437/5
Matrix: Water
Analysis Batch: 762437

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chloride	10.0	10.1		mg/L		101	90 - 110	0	15
Fluoride	2.00	2.12		mg/L		106	90 - 110	0	15
Sulfate	10.0	9.83		mg/L		98	90 - 110	0	15

Lab Sample ID: 680-229877-5 MS
Matrix: Water
Analysis Batch: 762437

Client Sample ID: MCI-GWC-5A
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Chloride	4.5		10.0	14.2		mg/L		97	80 - 120
Fluoride	<0.040		2.00	2.18		mg/L		109	80 - 120
Sulfate	<0.40		10.0	9.14		mg/L		91	80 - 120

Lab Sample ID: 680-229877-5 MSD
Matrix: Water
Analysis Batch: 762437

Client Sample ID: MCI-GWC-5A
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chloride	4.5		10.0	14.6		mg/L		102	80 - 120	3	15
Fluoride	<0.040		2.00	2.33		mg/L		116	80 - 120	7	15
Sulfate	<0.40		10.0	10.0		mg/L		100	80 - 120	9	15

Lab Sample ID: MB 680-762438/33
Matrix: Water
Analysis Batch: 762438

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	<0.20		1.0	0.20	mg/L			02/08/23 17:43	1
Fluoride	<0.040		0.10	0.040	mg/L			02/08/23 17:43	1
Sulfate	<0.40		1.0	0.40	mg/L			02/08/23 17:43	1

Lab Sample ID: LCS 680-762438/34
Matrix: Water
Analysis Batch: 762438

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Chloride	10.0	9.98		mg/L		100	90 - 110
Fluoride	2.00	2.10		mg/L		105	90 - 110
Sulfate	10.0	9.44		mg/L		94	90 - 110

Eurofins Savannah

QC Sample Results

Client: Southern Company
Project/Site: Plant McIntosh Landfill #3

Job ID: 680-229877-1

Method: 300.0-1993 R2.1 - Anions, Ion Chromatography (Continued)

Lab Sample ID: LCSD 680-762438/35
Matrix: Water
Analysis Batch: 762438

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chloride	10.0	9.98		mg/L		100	90 - 110	0	15
Fluoride	2.00	2.11		mg/L		106	90 - 110	1	15
Sulfate	10.0	9.54		mg/L		95	90 - 110	1	15

Lab Sample ID: 680-229877-7 MS
Matrix: Water
Analysis Batch: 762438

Client Sample ID: MCI-LF3-FD-05
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Chloride	13		10.0	23.5		mg/L		102	80 - 120
Fluoride	0.072	J F1	2.00	2.52	F1	mg/L		122	80 - 120
Sulfate	<0.40		10.0	10.7		mg/L		107	80 - 120

Lab Sample ID: 680-229877-7 MSD
Matrix: Water
Analysis Batch: 762438

Client Sample ID: MCI-LF3-FD-05
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chloride	13		10.0	23.1		mg/L		98	80 - 120	1	15
Fluoride	0.072	J F1	2.00	2.49	F1	mg/L		121	80 - 120	1	15
Sulfate	<0.40		10.0	10.5		mg/L		105	80 - 120	1	15

Lab Sample ID: 680-229884-G-5 MS
Matrix: Water
Analysis Batch: 762438

Client Sample ID: Matrix Spike
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Chloride	41		10.0	51.4	4	mg/L		101	80 - 120
Fluoride	0.25		2.00	2.38		mg/L		107	80 - 120
Sulfate	1.5		10.0	11.3		mg/L		98	80 - 120

Lab Sample ID: 680-229884-G-5 MSD
Matrix: Water
Analysis Batch: 762438

Client Sample ID: Matrix Spike Duplicate
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chloride	41		10.0	50.9	4	mg/L		96	80 - 120	1	15
Fluoride	0.25		2.00	2.31		mg/L		103	80 - 120	3	15
Sulfate	1.5		10.0	10.9		mg/L		94	80 - 120	4	15

Method: 6020B - Metals (ICP/MS)

Lab Sample ID: MB 680-761783/1-A
Matrix: Water
Analysis Batch: 762023

Client Sample ID: Method Blank
Prep Type: Total Recoverable
Prep Batch: 761783

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Barium	<0.00089		0.010	0.00089	mg/L		02/03/23 06:43	02/03/23 12:29	1
Barium, Dissolved	<0.00089		0.010	0.00089	mg/L		02/03/23 06:43	02/03/23 12:29	1
Beryllium	<0.00020		0.0025	0.00020	mg/L		02/03/23 06:43	02/03/23 12:29	1

Eurofins Savannah

QC Sample Results

Client: Southern Company
 Project/Site: Plant McIntosh Landfill #3

Job ID: 680-229877-1

Method: 6020B - Metals (ICP/MS) (Continued)

Lab Sample ID: MB 680-761783/1-A
Matrix: Water
Analysis Batch: 762023

Client Sample ID: Method Blank
Prep Type: Total Recoverable
Prep Batch: 761783

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Beryllium, Dissolved	<0.00020		0.0025	0.00020	mg/L		02/03/23 06:43	02/03/23 12:29	1
Boron	<0.022		0.080	0.022	mg/L		02/03/23 06:43	02/03/23 12:29	1
Boron, Dissolved	<0.022		0.080	0.022	mg/L		02/03/23 06:43	02/03/23 12:29	1
Calcium	<0.14		0.50	0.14	mg/L		02/03/23 06:43	02/03/23 12:29	1
Calcium, Dissolved	<0.14		0.50	0.14	mg/L		02/03/23 06:43	02/03/23 12:29	1
Chromium	<0.0012		0.0020	0.0012	mg/L		02/03/23 06:43	02/03/23 12:29	1
Chromium, Dissolved	<0.0012		0.0020	0.0012	mg/L		02/03/23 06:43	02/03/23 12:29	1
Cobalt	<0.00022		0.0025	0.00022	mg/L		02/03/23 06:43	02/03/23 12:29	1
Cobalt, Dissolved	<0.00022		0.0025	0.00022	mg/L		02/03/23 06:43	02/03/23 12:29	1
Copper	<0.0011		0.0020	0.0011	mg/L		02/03/23 06:43	02/03/23 12:29	1
Copper, Dissolved	<0.0011		0.0020	0.0011	mg/L		02/03/23 06:43	02/03/23 12:29	1
Lead	<0.00021		0.0010	0.00021	mg/L		02/03/23 06:43	02/03/23 12:29	1
Lead, Dissolved	<0.00021		0.0010	0.00021	mg/L		02/03/23 06:43	02/03/23 12:29	1
Vanadium	<0.00063		0.0020	0.00063	mg/L		02/03/23 06:43	02/03/23 12:29	1
Vanadium, Dissolved	<0.00063		0.0020	0.00063	mg/L		02/03/23 06:43	02/03/23 12:29	1
Zinc	<0.0028		0.0050	0.0028	mg/L		02/03/23 06:43	02/03/23 12:29	1
Zinc, Dissolved	<0.0028		0.0050	0.0028	mg/L		02/03/23 06:43	02/03/23 12:29	1

Lab Sample ID: LCS 680-761783/2-A
Matrix: Water
Analysis Batch: 762023

Client Sample ID: Lab Control Sample
Prep Type: Total Recoverable
Prep Batch: 761783

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Barium	0.100	0.105		mg/L		105	80 - 120
Barium, Dissolved	0.100	0.105		mg/L		105	80 - 120
Beryllium	0.0500	0.0529		mg/L		106	80 - 120
Beryllium, Dissolved	0.0500	0.0529		mg/L		106	80 - 120
Boron	0.200	0.217		mg/L		108	80 - 120
Boron, Dissolved	0.200	0.217		mg/L		108	80 - 120
Calcium	5.00	5.24		mg/L		105	80 - 120
Calcium, Dissolved	5.00	5.24		mg/L		105	80 - 120
Chromium	0.100	0.105		mg/L		105	80 - 120
Chromium, Dissolved	0.100	0.105		mg/L		105	80 - 120
Cobalt	0.0500	0.0535		mg/L		107	80 - 120
Cobalt, Dissolved	0.0500	0.0535		mg/L		107	80 - 120
Copper	0.100	0.113		mg/L		113	80 - 120
Copper, Dissolved	0.100	0.113		mg/L		113	80 - 120
Lead	0.505	0.521		mg/L		103	80 - 120
Lead, Dissolved	0.505	0.521		mg/L		103	80 - 120
Vanadium	0.100	0.101		mg/L		101	80 - 120
Vanadium, Dissolved	0.100	0.101		mg/L		101	80 - 120
Zinc	0.100	0.109		mg/L		109	80 - 120
Zinc, Dissolved	0.100	0.109		mg/L		109	80 - 120

QC Sample Results

Client: Southern Company
Project/Site: Plant McIntosh Landfill #3

Job ID: 680-229877-1

Method: 6020B - Metals (ICP/MS) (Continued)

Lab Sample ID: 680-229877-1 MS

Matrix: Water

Analysis Batch: 762023

Client Sample ID: MCI-GWA-1B

Prep Type: Total Recoverable

Prep Batch: 761783

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Barium	0.024		0.100	0.126		mg/L		101	75 - 125
Barium, Dissolved	0.024		0.100	0.126		mg/L		101	75 - 125
Beryllium	<0.00020		0.0500	0.0542		mg/L		108	75 - 125
Beryllium, Dissolved	<0.00020		0.0500	0.0542		mg/L		108	75 - 125
Boron	0.044	J	0.200	0.254		mg/L		105	75 - 125
Boron, Dissolved	0.044	J	0.200	0.254		mg/L		105	75 - 125
Calcium	6.8		5.00	11.6		mg/L		97	75 - 125
Calcium, Dissolved	6.8		5.00	11.6		mg/L		97	75 - 125
Chromium	<0.0012		0.100	0.107		mg/L		107	75 - 125
Chromium, Dissolved	<0.0012		0.100	0.107		mg/L		107	75 - 125
Cobalt	0.00028	J	0.0500	0.0542		mg/L		108	75 - 125
Cobalt, Dissolved	0.00028	J	0.0500	0.0542		mg/L		108	75 - 125
Copper	<0.0011		0.100	0.116		mg/L		116	75 - 125
Copper, Dissolved	<0.0011		0.100	0.116		mg/L		116	75 - 125
Lead	<0.00021		0.505	0.531		mg/L		105	75 - 125
Lead, Dissolved	<0.00021		0.505	0.531		mg/L		105	75 - 125
Vanadium	<0.00063		0.100	0.106		mg/L		106	75 - 125
Vanadium, Dissolved	<0.00063		0.100	0.106		mg/L		106	75 - 125
Zinc	<0.0028		0.100	0.113		mg/L		113	75 - 125
Zinc, Dissolved	<0.0028		0.100	0.113		mg/L		113	75 - 125

Lab Sample ID: 680-229877-1 MSD

Matrix: Water

Analysis Batch: 762023

Client Sample ID: MCI-GWA-1B

Prep Type: Total Recoverable

Prep Batch: 761783

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Barium	0.024		0.100	0.130		mg/L		106	75 - 125	3	20
Barium, Dissolved	0.024		0.100	0.130		mg/L		106	75 - 125	3	20
Beryllium	<0.00020		0.0500	0.0532		mg/L		106	75 - 125	2	20
Beryllium, Dissolved	<0.00020		0.0500	0.0532		mg/L		106	75 - 125	2	20
Boron	0.044	J	0.200	0.257		mg/L		106	75 - 125	1	20
Boron, Dissolved	0.044	J	0.200	0.257		mg/L		106	75 - 125	1	20
Calcium	6.8		5.00	11.5		mg/L		94	75 - 125	1	20
Calcium, Dissolved	6.8		5.00	11.5		mg/L		94	75 - 125	1	20
Chromium	<0.0012		0.100	0.108		mg/L		108	75 - 125	2	20
Chromium, Dissolved	<0.0012		0.100	0.108		mg/L		108	75 - 125	2	20
Cobalt	0.00028	J	0.0500	0.0548		mg/L		109	75 - 125	1	20
Cobalt, Dissolved	0.00028	J	0.0500	0.0548		mg/L		109	75 - 125	1	20
Copper	<0.0011		0.100	0.117		mg/L		117	75 - 125	1	20
Copper, Dissolved	<0.0011		0.100	0.117		mg/L		117	75 - 125	1	20
Lead	<0.00021		0.505	0.535		mg/L		106	75 - 125	1	20
Lead, Dissolved	<0.00021		0.505	0.535		mg/L		106	75 - 125	1	20
Vanadium	<0.00063		0.100	0.104		mg/L		104	75 - 125	2	20
Vanadium, Dissolved	<0.00063		0.100	0.104		mg/L		104	75 - 125	2	20
Zinc	<0.0028		0.100	0.113		mg/L		113	75 - 125	0	20
Zinc, Dissolved	<0.0028		0.100	0.113		mg/L		113	75 - 125	0	20

Eurofins Savannah

QC Sample Results

Client: Southern Company
 Project/Site: Plant McIntosh Landfill #3

Job ID: 680-229877-1

Method: 6020B - Metals (ICP/MS) (Continued)

Lab Sample ID: MB 680-761818/1-A
Matrix: Water
Analysis Batch: 762023

Client Sample ID: Method Blank
Prep Type: Total Recoverable
Prep Batch: 761818

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Barium	<0.00089		0.010	0.00089	mg/L		02/03/23 10:05	02/03/23 17:02	1
Beryllium	<0.00020		0.0025	0.00020	mg/L		02/03/23 10:05	02/03/23 17:02	1
Boron	<0.022		0.080	0.022	mg/L		02/03/23 10:05	02/03/23 17:02	1
Calcium	<0.14		0.50	0.14	mg/L		02/03/23 10:05	02/03/23 17:02	1
Chromium	<0.0012		0.0020	0.0012	mg/L		02/03/23 10:05	02/03/23 17:02	1
Cobalt	<0.00022		0.0025	0.00022	mg/L		02/03/23 10:05	02/03/23 17:02	1
Copper	<0.0011		0.0020	0.0011	mg/L		02/03/23 10:05	02/03/23 17:02	1
Lead	<0.00021		0.0010	0.00021	mg/L		02/03/23 10:05	02/03/23 17:02	1
Vanadium	<0.00063		0.0020	0.00063	mg/L		02/03/23 10:05	02/03/23 17:02	1
Zinc	<0.0028		0.0050	0.0028	mg/L		02/03/23 10:05	02/03/23 17:02	1

Lab Sample ID: LCS 680-761818/2-A
Matrix: Water
Analysis Batch: 762023

Client Sample ID: Lab Control Sample
Prep Type: Total Recoverable
Prep Batch: 761818

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Barium	0.100	0.0977		mg/L		98	80 - 120
Beryllium	0.0500	0.0495		mg/L		99	80 - 120
Boron	0.200	0.210		mg/L		105	80 - 120
Calcium	5.00	5.10		mg/L		102	80 - 120
Chromium	0.100	0.0985		mg/L		98	80 - 120
Cobalt	0.0500	0.0498		mg/L		100	80 - 120
Copper	0.100	0.106		mg/L		106	80 - 120
Lead	0.505	0.497		mg/L		99	80 - 120
Vanadium	0.100	0.0943		mg/L		94	80 - 120
Zinc	0.100	0.104		mg/L		104	80 - 120

Lab Sample ID: 680-229888-G-2-E MS
Matrix: Water
Analysis Batch: 762023

Client Sample ID: Matrix Spike
Prep Type: Total Recoverable
Prep Batch: 761818

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Barium	0.0065	J	0.100	0.109		mg/L		103	75 - 125
Beryllium	<0.00020		0.0500	0.0527		mg/L		105	75 - 125
Boron	<0.022		0.200	0.237		mg/L		119	75 - 125
Calcium	6.5		5.00	11.7		mg/L		103	75 - 125
Chromium	<0.0012		0.100	0.105		mg/L		105	75 - 125
Cobalt	0.0058		0.0500	0.0595		mg/L		107	75 - 125
Copper	<0.0011		0.100	0.113		mg/L		113	75 - 125
Lead	<0.00021		0.505	0.526		mg/L		104	75 - 125
Vanadium	<0.00063		0.100	0.101		mg/L		101	75 - 125
Zinc	0.0032	J	0.100	0.114		mg/L		111	75 - 125

Lab Sample ID: 680-229888-G-2-F MSD
Matrix: Water
Analysis Batch: 762023

Client Sample ID: Matrix Spike Duplicate
Prep Type: Total Recoverable
Prep Batch: 761818

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Barium	0.0065	J	0.100	0.112		mg/L		105	75 - 125	2	20

Eurofins Savannah

QC Sample Results

Client: Southern Company
Project/Site: Plant McIntosh Landfill #3

Job ID: 680-229877-1

Method: 6020B - Metals (ICP/MS) (Continued)

Lab Sample ID: 680-229888-G-2-F MSD
Matrix: Water
Analysis Batch: 762023

Client Sample ID: Matrix Spike Duplicate
Prep Type: Total Recoverable
Prep Batch: 761818

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Beryllium	<0.00020		0.0500	0.0519		mg/L		104	75 - 125	1	20
Boron	<0.022		0.200	0.228		mg/L		114	75 - 125	4	20
Calcium	6.5		5.00	11.0		mg/L		90	75 - 125	6	20
Chromium	<0.0012		0.100	0.104		mg/L		104	75 - 125	1	20
Cobalt	0.0058		0.0500	0.0588		mg/L		106	75 - 125	1	20
Copper	<0.0011		0.100	0.112		mg/L		112	75 - 125	1	20
Lead	<0.00021		0.505	0.522		mg/L		103	75 - 125	1	20
Vanadium	<0.00063		0.100	0.102		mg/L		102	75 - 125	0	20
Zinc	0.0032	J	0.100	0.113		mg/L		110	75 - 125	1	20

Method: 2540C-2011 - Total Dissolved Solids (Dried at 180 °C)

Lab Sample ID: MB 680-761892/1
Matrix: Water
Analysis Batch: 761892

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	<10		10	10	mg/L			02/03/23 12:24	1

Lab Sample ID: LCS 680-761892/2
Matrix: Water
Analysis Batch: 761892

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Total Dissolved Solids	2340	2400		mg/L		103	80 - 120

Lab Sample ID: LCSD 680-761892/3
Matrix: Water
Analysis Batch: 761892

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Total Dissolved Solids	2340	2360		mg/L		101	80 - 120	2	25

Lab Sample ID: 680-229861-B-2 DU
Matrix: Water
Analysis Batch: 761892

Client Sample ID: Duplicate
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
Total Dissolved Solids	1000		1030		mg/L		0.2	5

Lab Sample ID: 680-229904-B-1 DU
Matrix: Water
Analysis Batch: 761892

Client Sample ID: Duplicate
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
Total Dissolved Solids	1100		1050		mg/L		0.9	5

Eurofins Savannah

QC Sample Results

Client: Southern Company
 Project/Site: Plant McIntosh Landfill #3

Job ID: 680-229877-1

Method: 2540C-2011 - Total Dissolved Solids (Dried at 180 °C) (Continued)

Lab Sample ID: MB 680-762513/1
Matrix: Water
Analysis Batch: 762513

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	<10		10	10	mg/L			02/08/23 11:26	1

Lab Sample ID: LCS 680-762513/2
Matrix: Water
Analysis Batch: 762513

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Total Dissolved Solids	2340	2390		mg/L		102	80 - 120

Lab Sample ID: LCSD 680-762513/3
Matrix: Water
Analysis Batch: 762513

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Total Dissolved Solids	2340	2420		mg/L		103	80 - 120	1	25

Lab Sample ID: 680-230091-B-1 DU
Matrix: Water
Analysis Batch: 762513

Client Sample ID: Duplicate
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
Total Dissolved Solids	1200		1150		mg/L		1	5

QC Association Summary

Client: Southern Company
Project/Site: Plant McIntosh Landfill #3

Job ID: 680-229877-1

HPLC/IC

Analysis Batch: 762266

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-229877-1	MCI-GWA-1B	Total/NA	Water	300.0-1993 R2.1	
680-229877-2	MCI-GWA-2B	Total/NA	Water	300.0-1993 R2.1	
680-229877-3	MCI-GWA-7A	Total/NA	Water	300.0-1993 R2.1	
680-229877-4	MCI-GWC-1A	Total/NA	Water	300.0-1993 R2.1	
MB 680-762266/33	Method Blank	Total/NA	Water	300.0-1993 R2.1	
LCS 680-762266/50	Lab Control Sample	Total/NA	Water	300.0-1993 R2.1	
LCSD 680-762266/51	Lab Control Sample Dup	Total/NA	Water	300.0-1993 R2.1	
680-229877-1 MS	MCI-GWA-1B	Total/NA	Water	300.0-1993 R2.1	
680-229877-1 MSD	MCI-GWA-1B	Total/NA	Water	300.0-1993 R2.1	

Analysis Batch: 762437

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-229877-5	MCI-GWC-5A	Total/NA	Water	300.0-1993 R2.1	
680-229877-6	MCI-GWC-6A	Total/NA	Water	300.0-1993 R2.1	
MB 680-762437/2	Method Blank	Total/NA	Water	300.0-1993 R2.1	
LCS 680-762437/4	Lab Control Sample	Total/NA	Water	300.0-1993 R2.1	
LCSD 680-762437/5	Lab Control Sample Dup	Total/NA	Water	300.0-1993 R2.1	
680-229877-5 MS	MCI-GWC-5A	Total/NA	Water	300.0-1993 R2.1	
680-229877-5 MSD	MCI-GWC-5A	Total/NA	Water	300.0-1993 R2.1	

Analysis Batch: 762438

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-229877-7	MCI-LF3-FD-05	Total/NA	Water	300.0-1993 R2.1	
680-229877-8	MCI-LF3-FB-09	Total/NA	Water	300.0-1993 R2.1	
680-229877-9	MCI-GWA-3A	Total/NA	Water	300.0-1993 R2.1	
680-229877-10	MCI-GWA-4	Total/NA	Water	300.0-1993 R2.1	
680-229877-11	MCI-GWC-2	Total/NA	Water	300.0-1993 R2.1	
680-229877-12	MCI-LF3-GWC-4A	Total/NA	Water	300.0-1993 R2.1	
680-229877-13	MCI-LF3-FD-06	Total/NA	Water	300.0-1993 R2.1	
680-229877-14	MCI-LF3-FB-10	Total/NA	Water	300.0-1993 R2.1	
680-229877-15	MCI-LF3-EB-11	Total/NA	Water	300.0-1993 R2.1	
680-229877-16	MCI-LF3-EB-12	Total/NA	Water	300.0-1993 R2.1	
680-229877-17	MCI-LF3-GWA-5	Total/NA	Water	300.0-1993 R2.1	
MB 680-762438/33	Method Blank	Total/NA	Water	300.0-1993 R2.1	
LCS 680-762438/34	Lab Control Sample	Total/NA	Water	300.0-1993 R2.1	
LCSD 680-762438/35	Lab Control Sample Dup	Total/NA	Water	300.0-1993 R2.1	
680-229877-7 MS	MCI-LF3-FD-05	Total/NA	Water	300.0-1993 R2.1	
680-229877-7 MSD	MCI-LF3-FD-05	Total/NA	Water	300.0-1993 R2.1	
680-229884-G-5 MS	Matrix Spike	Total/NA	Water	300.0-1993 R2.1	
680-229884-G-5 MSD	Matrix Spike Duplicate	Total/NA	Water	300.0-1993 R2.1	

Metals

Prep Batch: 761783

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-229877-1	MCI-GWA-1B	Total Recoverable	Water	3005A	
680-229877-2	MCI-GWA-2B	Total Recoverable	Water	3005A	
680-229877-3	MCI-GWA-7A	Total Recoverable	Water	3005A	
680-229877-4	MCI-GWC-1A	Total Recoverable	Water	3005A	
680-229877-5	MCI-GWC-5A	Total Recoverable	Water	3005A	
680-229877-6	MCI-GWC-6A	Total Recoverable	Water	3005A	

Eurofins Savannah

QC Association Summary

Client: Southern Company
Project/Site: Plant McIntosh Landfill #3

Job ID: 680-229877-1

Metals (Continued)

Prep Batch: 761783 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-229877-7	MCI-LF3-FD-05	Total Recoverable	Water	3005A	
680-229877-8	MCI-LF3-FB-09	Total Recoverable	Water	3005A	
680-229877-9	MCI-GWA-3A	Total Recoverable	Water	3005A	
680-229877-10	MCI-GWA-4	Total Recoverable	Water	3005A	
680-229877-11	MCI-GWC-2	Total Recoverable	Water	3005A	
680-229877-12	MCI-LF3-GWC-4A	Total Recoverable	Water	3005A	
680-229877-13	MCI-LF3-FD-06	Total Recoverable	Water	3005A	
680-229877-14	MCI-LF3-FB-10	Total Recoverable	Water	3005A	
680-229877-15	MCI-LF3-EB-11	Total Recoverable	Water	3005A	
680-229877-16	MCI-LF3-EB-12	Total Recoverable	Water	3005A	
680-229877-17	MCI-LF3-GWA-5	Dissolved	Water	3005A	
MB 680-761783/1-A	Method Blank	Total Recoverable	Water	3005A	
LCS 680-761783/2-A	Lab Control Sample	Total Recoverable	Water	3005A	
680-229877-1 MS	MCI-GWA-1B	Total Recoverable	Water	3005A	
680-229877-1 MSD	MCI-GWA-1B	Total Recoverable	Water	3005A	

Prep Batch: 761818

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-229877-17	MCI-LF3-GWA-5	Total Recoverable	Water	3005A	
MB 680-761818/1-A	Method Blank	Total Recoverable	Water	3005A	
LCS 680-761818/2-A	Lab Control Sample	Total Recoverable	Water	3005A	
680-229888-G-2-E MS	Matrix Spike	Total Recoverable	Water	3005A	
680-229888-G-2-F MSD	Matrix Spike Duplicate	Total Recoverable	Water	3005A	

Analysis Batch: 762023

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-229877-1	MCI-GWA-1B	Total Recoverable	Water	6020B	761783
680-229877-2	MCI-GWA-2B	Total Recoverable	Water	6020B	761783
680-229877-3	MCI-GWA-7A	Total Recoverable	Water	6020B	761783
680-229877-4	MCI-GWC-1A	Total Recoverable	Water	6020B	761783
680-229877-5	MCI-GWC-5A	Total Recoverable	Water	6020B	761783
680-229877-6	MCI-GWC-6A	Total Recoverable	Water	6020B	761783
680-229877-7	MCI-LF3-FD-05	Total Recoverable	Water	6020B	761783
680-229877-8	MCI-LF3-FB-09	Total Recoverable	Water	6020B	761783
680-229877-9	MCI-GWA-3A	Total Recoverable	Water	6020B	761783
680-229877-10	MCI-GWA-4	Total Recoverable	Water	6020B	761783
680-229877-11	MCI-GWC-2	Total Recoverable	Water	6020B	761783
680-229877-12	MCI-LF3-GWC-4A	Total Recoverable	Water	6020B	761783
680-229877-13	MCI-LF3-FD-06	Total Recoverable	Water	6020B	761783
680-229877-14	MCI-LF3-FB-10	Total Recoverable	Water	6020B	761783
680-229877-15	MCI-LF3-EB-11	Total Recoverable	Water	6020B	761783
680-229877-16	MCI-LF3-EB-12	Total Recoverable	Water	6020B	761783
680-229877-17	MCI-LF3-GWA-5	Dissolved	Water	6020B	761783
680-229877-17	MCI-LF3-GWA-5	Total Recoverable	Water	6020B	761818
MB 680-761783/1-A	Method Blank	Total Recoverable	Water	6020B	761783
MB 680-761818/1-A	Method Blank	Total Recoverable	Water	6020B	761818
LCS 680-761783/2-A	Lab Control Sample	Total Recoverable	Water	6020B	761783
LCS 680-761818/2-A	Lab Control Sample	Total Recoverable	Water	6020B	761818
680-229877-1 MS	MCI-GWA-1B	Total Recoverable	Water	6020B	761783
680-229877-1 MSD	MCI-GWA-1B	Total Recoverable	Water	6020B	761783
680-229888-G-2-E MS	Matrix Spike	Total Recoverable	Water	6020B	761818

Eurofins Savannah

QC Association Summary

Client: Southern Company
Project/Site: Plant McIntosh Landfill #3

Job ID: 680-229877-1

Metals (Continued)

Analysis Batch: 762023 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-229888-G-2-F MSD	Matrix Spike Duplicate	Total Recoverable	Water	6020B	761818

General Chemistry

Analysis Batch: 761892

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-229877-1	MCI-GWA-1B	Total/NA	Water	2540C-2011	
680-229877-2	MCI-GWA-2B	Total/NA	Water	2540C-2011	
680-229877-3	MCI-GWA-7A	Total/NA	Water	2540C-2011	
680-229877-4	MCI-GWC-1A	Total/NA	Water	2540C-2011	
680-229877-5	MCI-GWC-5A	Total/NA	Water	2540C-2011	
680-229877-6	MCI-GWC-6A	Total/NA	Water	2540C-2011	
680-229877-7	MCI-LF3-FD-05	Total/NA	Water	2540C-2011	
680-229877-8	MCI-LF3-FB-09	Total/NA	Water	2540C-2011	
680-229877-9	MCI-GWA-3A	Total/NA	Water	2540C-2011	
680-229877-10	MCI-GWA-4	Total/NA	Water	2540C-2011	
680-229877-11	MCI-GWC-2	Total/NA	Water	2540C-2011	
680-229877-12	MCI-LF3-GWC-4A	Total/NA	Water	2540C-2011	
680-229877-13	MCI-LF3-FD-06	Total/NA	Water	2540C-2011	
680-229877-14	MCI-LF3-FB-10	Total/NA	Water	2540C-2011	
680-229877-15	MCI-LF3-EB-11	Total/NA	Water	2540C-2011	
680-229877-16	MCI-LF3-EB-12	Total/NA	Water	2540C-2011	
MB 680-761892/1	Method Blank	Total/NA	Water	2540C-2011	
LCS 680-761892/2	Lab Control Sample	Total/NA	Water	2540C-2011	
LCSD 680-761892/3	Lab Control Sample Dup	Total/NA	Water	2540C-2011	
680-229861-B-2 DU	Duplicate	Total/NA	Water	2540C-2011	
680-229904-B-1 DU	Duplicate	Total/NA	Water	2540C-2011	

Analysis Batch: 762513

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-229877-17	MCI-LF3-GWA-5	Total/NA	Water	2540C-2011	
MB 680-762513/1	Method Blank	Total/NA	Water	2540C-2011	
LCS 680-762513/2	Lab Control Sample	Total/NA	Water	2540C-2011	
LCSD 680-762513/3	Lab Control Sample Dup	Total/NA	Water	2540C-2011	
680-230091-B-1 DU	Duplicate	Total/NA	Water	2540C-2011	

Field Service / Mobile Lab

Analysis Batch: 762011

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-229877-1	MCI-GWA-1B	Total/NA	Water	Field Sampling	
680-229877-2	MCI-GWA-2B	Total/NA	Water	Field Sampling	
680-229877-3	MCI-GWA-7A	Total/NA	Water	Field Sampling	
680-229877-4	MCI-GWC-1A	Total/NA	Water	Field Sampling	
680-229877-5	MCI-GWC-5A	Total/NA	Water	Field Sampling	
680-229877-6	MCI-GWC-6A	Total/NA	Water	Field Sampling	
680-229877-9	MCI-GWA-3A	Total/NA	Water	Field Sampling	
680-229877-10	MCI-GWA-4	Total/NA	Water	Field Sampling	
680-229877-11	MCI-GWC-2	Total/NA	Water	Field Sampling	
680-229877-12	MCI-LF3-GWC-4A	Total/NA	Water	Field Sampling	
680-229877-17	MCI-LF3-GWA-5	Total/NA	Water	Field Sampling	

Eurofins Savannah

Lab Chronicle

Client: Southern Company
 Project/Site: Plant McIntosh Landfill #3

Job ID: 680-229877-1

Client Sample ID: MCI-GWA-1B

Lab Sample ID: 680-229877-1

Date Collected: 01/31/23 14:15

Matrix: Water

Date Received: 02/02/23 11:39

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	300.0-1993 R2.1		1	5 mL	5 mL	762266	02/07/23 20:14	UI	EET SAV
Instrument ID: CICK										
Total Recoverable	Prep	3005A			25 mL	125 mL	761783	02/03/23 06:43	RR	EET SAV
Total Recoverable	Analysis	6020B		1			762023	02/03/23 12:37	BJB	EET SAV
Instrument ID: ICPMSC										
Total/NA	Analysis	2540C-2011		1	200 mL	200 mL	761892	02/03/23 12:24	PG	EET SAV
Instrument ID: NOEQUIP										
Total/NA	Analysis	Field Sampling		1			762011	01/31/23 14:15	T1C	EET SAV
Instrument ID: NOEQUIP										

Client Sample ID: MCI-GWA-2B

Lab Sample ID: 680-229877-2

Date Collected: 01/31/23 16:25

Matrix: Water

Date Received: 02/02/23 11:39

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	300.0-1993 R2.1		1	5 mL	5 mL	762266	02/07/23 20:54	UI	EET SAV
Instrument ID: CICK										
Total Recoverable	Prep	3005A			25 mL	125 mL	761783	02/03/23 06:43	RR	EET SAV
Total Recoverable	Analysis	6020B		1			762023	02/03/23 12:49	BJB	EET SAV
Instrument ID: ICPMSC										
Total/NA	Analysis	2540C-2011		1	200 mL	200 mL	761892	02/03/23 12:24	PG	EET SAV
Instrument ID: NOEQUIP										
Total/NA	Analysis	Field Sampling		1			762011	01/31/23 16:25	T1C	EET SAV
Instrument ID: NOEQUIP										

Client Sample ID: MCI-GWA-7A

Lab Sample ID: 680-229877-3

Date Collected: 01/31/23 16:40

Matrix: Water

Date Received: 02/02/23 11:39

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	300.0-1993 R2.1		1	5 mL	5 mL	762266	02/07/23 21:07	UI	EET SAV
Instrument ID: CICK										
Total Recoverable	Prep	3005A			25 mL	125 mL	761783	02/03/23 06:43	RR	EET SAV
Total Recoverable	Analysis	6020B		1			762023	02/03/23 12:53	BJB	EET SAV
Instrument ID: ICPMSC										
Total/NA	Analysis	2540C-2011		1	200 mL	200 mL	761892	02/03/23 12:24	PG	EET SAV
Instrument ID: NOEQUIP										
Total/NA	Analysis	Field Sampling		1			762011	01/31/23 16:40	T1C	EET SAV
Instrument ID: NOEQUIP										

Lab Chronicle

Client: Southern Company
Project/Site: Plant McIntosh Landfill #3

Job ID: 680-229877-1

Client Sample ID: MCI-GWC-1A

Lab Sample ID: 680-229877-4

Date Collected: 01/31/23 15:20

Matrix: Water

Date Received: 02/02/23 11:39

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	300.0-1993 R2.1		1	5 mL	5 mL	762266	02/07/23 21:20	UI	EET SAV
Instrument ID: CICK										
Total Recoverable	Prep	3005A			25 mL	125 mL	761783	02/03/23 06:43	RR	EET SAV
Total Recoverable	Analysis	6020B		1			762023	02/03/23 12:57	BJB	EET SAV
Instrument ID: ICPMSC										
Total/NA	Analysis	2540C-2011		1	200 mL	200 mL	761892	02/03/23 12:24	PG	EET SAV
Instrument ID: NOEQUIP										
Total/NA	Analysis	Field Sampling		1			762011	01/31/23 15:20	T1C	EET SAV
Instrument ID: NOEQUIP										

Client Sample ID: MCI-GWC-5A

Lab Sample ID: 680-229877-5

Date Collected: 01/31/23 14:10

Matrix: Water

Date Received: 02/02/23 11:39

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	300.0-1993 R2.1		1	5 mL	5 mL	762437	02/08/23 12:41	OK	EET SAV
Instrument ID: CICK										
Total Recoverable	Prep	3005A			25 mL	125 mL	761783	02/03/23 06:43	RR	EET SAV
Total Recoverable	Analysis	6020B		1			762023	02/03/23 13:01	BJB	EET SAV
Instrument ID: ICPMSC										
Total/NA	Analysis	2540C-2011		1	200 mL	200 mL	761892	02/03/23 12:24	PG	EET SAV
Instrument ID: NOEQUIP										
Total/NA	Analysis	Field Sampling		1			762011	01/31/23 14:10	T1C	EET SAV
Instrument ID: NOEQUIP										

Client Sample ID: MCI-GWC-6A

Lab Sample ID: 680-229877-6

Date Collected: 01/31/23 15:20

Matrix: Water

Date Received: 02/02/23 11:39

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	300.0-1993 R2.1		1	5 mL	5 mL	762437	02/08/23 13:20	OK	EET SAV
Instrument ID: CICK										
Total Recoverable	Prep	3005A			25 mL	125 mL	761783	02/03/23 06:43	RR	EET SAV
Total Recoverable	Analysis	6020B		1			762023	02/03/23 13:05	BJB	EET SAV
Instrument ID: ICPMSC										
Total/NA	Analysis	2540C-2011		1	200 mL	200 mL	761892	02/03/23 12:24	PG	EET SAV
Instrument ID: NOEQUIP										
Total/NA	Analysis	Field Sampling		1			762011	01/31/23 15:20	T1C	EET SAV
Instrument ID: NOEQUIP										

Lab Chronicle

Client: Southern Company
Project/Site: Plant McIntosh Landfill #3

Job ID: 680-229877-1

Client Sample ID: MCI-LF3-FD-05

Lab Sample ID: 680-229877-7

Date Collected: 01/31/23 00:00

Matrix: Water

Date Received: 02/02/23 11:39

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	300.0-1993 R2.1		1	5 mL	5 mL	762438	02/08/23 18:23	OK	EET SAV
Instrument ID: CICK										
Total Recoverable	Prep	3005A			25 mL	125 mL	761783	02/03/23 06:43	RR	EET SAV
Total Recoverable	Analysis	6020B		1			762023	02/03/23 13:18	BJB	EET SAV
Instrument ID: ICPMSC										
Total/NA	Analysis	2540C-2011		1	200 mL	200 mL	761892	02/03/23 12:24	PG	EET SAV
Instrument ID: NOEQUIP										

Client Sample ID: MCI-LF3-FB-09

Lab Sample ID: 680-229877-8

Date Collected: 01/31/23 15:15

Matrix: Water

Date Received: 02/02/23 11:39

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	300.0-1993 R2.1		1	5 mL	5 mL	762438	02/08/23 19:02	OK	EET SAV
Instrument ID: CICK										
Total Recoverable	Prep	3005A			25 mL	125 mL	761783	02/03/23 06:43	RR	EET SAV
Total Recoverable	Analysis	6020B		1			762023	02/03/23 13:22	BJB	EET SAV
Instrument ID: ICPMSC										
Total/NA	Analysis	2540C-2011		1	200 mL	200 mL	761892	02/03/23 12:24	PG	EET SAV
Instrument ID: NOEQUIP										

Client Sample ID: MCI-GWA-3A

Lab Sample ID: 680-229877-9

Date Collected: 02/01/23 11:05

Matrix: Water

Date Received: 02/02/23 11:39

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	300.0-1993 R2.1		1	5 mL	5 mL	762438	02/08/23 19:15	OK	EET SAV
Instrument ID: CICK										
Total Recoverable	Prep	3005A			25 mL	125 mL	761783	02/03/23 06:43	RR	EET SAV
Total Recoverable	Analysis	6020B		1			762023	02/03/23 13:26	BJB	EET SAV
Instrument ID: ICPMSC										
Total/NA	Analysis	2540C-2011		1	200 mL	200 mL	761892	02/03/23 12:24	PG	EET SAV
Instrument ID: NOEQUIP										
Total/NA	Analysis	Field Sampling		1			762011	02/01/23 11:05	T1C	EET SAV
Instrument ID: NOEQUIP										

Client Sample ID: MCI-GWA-4

Lab Sample ID: 680-229877-10

Date Collected: 02/01/23 09:50

Matrix: Water

Date Received: 02/02/23 11:39

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	300.0-1993 R2.1		1	5 mL	5 mL	762438	02/08/23 19:29	OK	EET SAV
Instrument ID: CICK										
Total Recoverable	Prep	3005A			25 mL	125 mL	761783	02/03/23 06:43	RR	EET SAV
Total Recoverable	Analysis	6020B		1			762023	02/03/23 13:30	BJB	EET SAV
Instrument ID: ICPMSC										

Eurofins Savannah

Lab Chronicle

Client: Southern Company
Project/Site: Plant McIntosh Landfill #3

Job ID: 680-229877-1

Client Sample ID: MCI-GWA-4

Lab Sample ID: 680-229877-10

Date Collected: 02/01/23 09:50

Matrix: Water

Date Received: 02/02/23 11:39

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	2540C-2011		1	200 mL	200 mL	761892	02/03/23 12:24	PG	EET SAV
Total/NA	Analysis	Field Sampling		1			762011	02/01/23 09:50	T1C	EET SAV
Instrument ID: NOEQUIP										

Client Sample ID: MCI-GWC-2

Lab Sample ID: 680-229877-11

Date Collected: 02/01/23 12:05

Matrix: Water

Date Received: 02/02/23 11:39

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	300.0-1993 R2.1		1	5 mL	5 mL	762438	02/08/23 19:42	OK	EET SAV
Instrument ID: CICK										
Total Recoverable	Prep	3005A			25 mL	125 mL	761783	02/03/23 06:43	RR	EET SAV
Total Recoverable	Analysis	6020B		1			762023	02/03/23 13:34	BJB	EET SAV
Instrument ID: ICPMSC										
Total/NA	Analysis	2540C-2011		1	200 mL	200 mL	761892	02/03/23 12:24	PG	EET SAV
Instrument ID: NOEQUIP										
Total/NA	Analysis	Field Sampling		1			762011	02/01/23 12:05	T1C	EET SAV
Instrument ID: NOEQUIP										

Client Sample ID: MCI-LF3-GWC-4A

Lab Sample ID: 680-229877-12

Date Collected: 02/01/23 13:05

Matrix: Water

Date Received: 02/02/23 11:39

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	300.0-1993 R2.1		1	5 mL	5 mL	762438	02/08/23 19:55	OK	EET SAV
Instrument ID: CICK										
Total Recoverable	Prep	3005A			25 mL	125 mL	761783	02/03/23 06:43	RR	EET SAV
Total Recoverable	Analysis	6020B		1			762023	02/03/23 13:38	BJB	EET SAV
Instrument ID: ICPMSC										
Total/NA	Analysis	2540C-2011		1	200 mL	200 mL	761892	02/03/23 12:24	PG	EET SAV
Instrument ID: NOEQUIP										
Total/NA	Analysis	Field Sampling		1			762011	02/01/23 12:50	T1C	EET SAV
Instrument ID: NOEQUIP										

Client Sample ID: MCI-LF3-FD-06

Lab Sample ID: 680-229877-13

Date Collected: 02/01/23 00:00

Matrix: Water

Date Received: 02/02/23 11:39

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	300.0-1993 R2.1		1	5 mL	5 mL	762438	02/08/23 20:08	OK	EET SAV
Instrument ID: CICK										
Total Recoverable	Prep	3005A			25 mL	125 mL	761783	02/03/23 06:43	RR	EET SAV
Total Recoverable	Analysis	6020B		1			762023	02/03/23 13:42	BJB	EET SAV
Instrument ID: ICPMSC										

Eurofins Savannah

Lab Chronicle

Client: Southern Company
 Project/Site: Plant McIntosh Landfill #3

Job ID: 680-229877-1

Client Sample ID: MCI-LF3-FD-06

Lab Sample ID: 680-229877-13

Date Collected: 02/01/23 00:00

Matrix: Water

Date Received: 02/02/23 11:39

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	2540C-2011		1	200 mL	200 mL	761892	02/03/23 12:24	PG	EET SAV

Client Sample ID: MCI-LF3-FB-10

Lab Sample ID: 680-229877-14

Date Collected: 02/01/23 12:50

Matrix: Water

Date Received: 02/02/23 11:39

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	300.0-1993 R2.1 Instrument ID: CICK		1	5 mL	5 mL	762438	02/08/23 20:21	OK	EET SAV
Total Recoverable	Prep	3005A			25 mL	125 mL	761783	02/03/23 06:43	RR	EET SAV
Total Recoverable	Analysis	6020B Instrument ID: ICPMSC		1			762023	02/03/23 13:46	BJB	EET SAV
Total/NA	Analysis	2540C-2011 Instrument ID: NOEQUIP		1	200 mL	200 mL	761892	02/03/23 12:24	PG	EET SAV

Client Sample ID: MCI-LF3-EB-11

Lab Sample ID: 680-229877-15

Date Collected: 02/01/23 09:05

Matrix: Water

Date Received: 02/02/23 11:39

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	300.0-1993 R2.1 Instrument ID: CICK		1	5 mL	5 mL	762438	02/08/23 20:34	OK	EET SAV
Total Recoverable	Prep	3005A			25 mL	125 mL	761783	02/03/23 06:43	RR	EET SAV
Total Recoverable	Analysis	6020B Instrument ID: ICPMSC		1			762023	02/03/23 13:54	BJB	EET SAV
Total/NA	Analysis	2540C-2011 Instrument ID: NOEQUIP		1	200 mL	200 mL	761892	02/03/23 12:24	PG	EET SAV

Client Sample ID: MCI-LF3-EB-12

Lab Sample ID: 680-229877-16

Date Collected: 02/01/23 12:55

Matrix: Water

Date Received: 02/02/23 11:39

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	300.0-1993 R2.1 Instrument ID: CICK		1	5 mL	5 mL	762438	02/08/23 20:48	OK	EET SAV
Total Recoverable	Prep	3005A			25 mL	125 mL	761783	02/03/23 06:43	RR	EET SAV
Total Recoverable	Analysis	6020B Instrument ID: ICPMSC		1			762023	02/03/23 14:07	BJB	EET SAV
Total/NA	Analysis	2540C-2011 Instrument ID: NOEQUIP		1	200 mL	200 mL	761892	02/03/23 12:24	PG	EET SAV

Lab Chronicle

Client: Southern Company
 Project/Site: Plant McIntosh Landfill #3

Job ID: 680-229877-1

Client Sample ID: MCI-LF3-GWA-5

Lab Sample ID: 680-229877-17

Date Collected: 02/02/23 09:30

Matrix: Water

Date Received: 02/02/23 11:39

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	300.0-1993 R2.1		1	5 mL	5 mL	762438	02/08/23 21:27	OK	EET SAV
Instrument ID: CICK										
Dissolved	Prep	3005A			25 mL	125 mL	761783	02/03/23 06:43	RR	EET SAV
Dissolved	Analysis	6020B		1			762023	02/03/23 14:11	BJB	EET SAV
Instrument ID: ICPMSC										
Total Recoverable	Prep	3005A			25 mL	125 mL	761818	02/03/23 10:05	RR	EET SAV
Total Recoverable	Analysis	6020B		1			762023	02/03/23 17:22	BJB	EET SAV
Instrument ID: ICPMSC										
Total/NA	Analysis	2540C-2011		1	200 mL	200 mL	762513	02/08/23 11:26	PG	EET SAV
Instrument ID: NOEQUIP										
Total/NA	Analysis	Field Sampling		1			762011	02/02/23 09:30	T1C	EET SAV
Instrument ID: NOEQUIP										

Laboratory References:

EET SAV = Eurofins Savannah, 5102 LaRoche Avenue, Savannah, GA 31404, TEL (912)354-7858



Accreditation/Certification Summary

Client: Southern Company
Project/Site: Plant McIntosh Landfill #3

Job ID: 680-229877-1

Laboratory: Eurofins Savannah

The accreditations/certifications listed below are applicable to this report.

Authority	Program	Identification Number	Expiration Date
Florida	NELAP	E87052	06-30-23
Georgia	State	E87052	06-30-23

1

2

3

4

5

6

7

8

9

10

11

12

Method Summary

Client: Southern Company
Project/Site: Plant McIntosh Landfill #3

Job ID: 680-229877-1

Method	Method Description	Protocol	Laboratory
300.0-1993 R2.1	Anions, Ion Chromatography	MCAWW	EET SAV
6020B	Metals (ICP/MS)	SW846	EET SAV
2540C-2011	Total Dissolved Solids (Dried at 180 °C)	SM	EET SAV
Field Sampling	Field Sampling	EPA	EET SAV
3005A	Preparation, Total Recoverable or Dissolved Metals	SW846	EET SAV

Protocol References:

EPA = US Environmental Protection Agency

MCAWW = "Methods For Chemical Analysis Of Water And Wastes", EPA-600/4-79-020, March 1983 And Subsequent Revisions.

SM = "Standard Methods For The Examination Of Water And Wastewater"

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

Laboratory References:

EET SAV = Eurofins Savannah, 5102 LaRoche Avenue, Savannah, GA 31404, TEL (912)354-7858

Chain of Custody Record

Client Information		Sampler: J. Bossford, ACC		Lab PM: Fuller, David	
Client Contact: SCS Contacts		Phone: 770-594-5998		E-Mail: david.fuller@et.eurofins.com	
Company: GA Power		Address: 241 Ralph McGill Blvd SE		City: Atlanta	
State, Zip: GA, 30308		Phone: 404-506-7116 (Tel)		Email: 68027732	
Project Name: SCS Contacts / ACC Contacts		Plant McIntosh Landfill 3		Site: Georgia	
Due Date Requested:		TAT Requested (days):		Standard	
Sample Date (mm/dd/yyyy)		Sample Time (hh:mm)		Sample Type (C-comp, G-grab)	
Sample Identification		Sample Date		Sample Time	
MCI-GWA-1B		01/31/23		1415	
MCI-GWA-2B		01/31/23		1625	
MCI-GWA-7A		01/31/23		1640	
MCI-GWC-1A		01/31/23		1520	
MCI-GWC-5A		01/31/23		1410	
MCI-GWC-6A		01/31/23		1520	
MCI-LF3-FD-05		01/31/23		1515	
MCI-LF3-FB-09		02/01/23		1105	
MCI-GWA-3A		02/01/23		0950	
MCI-GWA-4		02/01/23		1205	
MCI-GWC-2		02/01/23		1205	
Possible Hazard Identification		Poison B <input checked="" type="checkbox"/>		Unknown <input type="checkbox"/>	
Non-Hazard <input type="checkbox"/>		Flammable <input type="checkbox"/>		Skin Irritant <input type="checkbox"/>	
Deliverable Requested: I, II, III, IV, Other (specify)		Date: 02/02/23		Time: 1000	
Empty Kit Relinquished by:		Date/Time: 02/02/23		Company: ACC	
Relinquished by:		Date/Time: 02/02/23		Company: ACC	
Relinquished by:		Date/Time: 02/02/23		Company: ACC	
Relinquished by:		Date/Time: 02/02/23		Company: ACC	
Custody Seals Intact: <input type="checkbox"/> Yes <input type="checkbox"/> No		Custody Seal No.:		Cooler Temperature(s) °C and Other Remarks:	



Chain of Custody Record

Client Information Client Contact: S. Ber. Johnson SCS Contacts: 770-594-5948 Company: ACC Lab PM: Fuller, David E-Mail: david.fuller@et.eurofins.com		Carrier Tracking No(s): COC No: 20223 Page: 2 of 2 Job #:	
Due Date Requested: TAT Requested (days): Standard Lab Project #: 68027732 PO #: Project #: SSO#:		Analysis Requested Total Number of Containers:	
Address: 241 Ralph McGill Blvd SE City: Atlanta State, Zip: GA, 30308 Phone: 404-506-7116(Tel) Email: SCS Contacts / ACC Contacts Project Name: Plant McIntosh Landfill 3 Site: Georgia		Preservation Codes: M - Hexane N - None O - AsNaO2 P - Na2O4S Q - Na2SO3 R - Na2SO3 S - H2SO4 T - TSP Dodecahydrate U - Acetone V - MCAA W - pH 4-5 L - EDTA Z - other (specify) Other:	
Sample Identification Sample ID: MCI-LF3-GW-44 Sample Date (mm/dd/yy): 02/01/23 Sample Time (hhmm): 1250 Sample Type (C-comp, G-grab): G Matrix (W=ground water, WS=surface water, WC=quality control): WG Preservation Code: G		Task Code: MCI-CCR-ASSMT-2023S1 Special Instructions/Note: Full APP III + 8 State Metals	
MCI-LF3-FD-06 MCI-LF3-FB-10 MCI-LF3-FB-11 MCI-LF3-EB-12 MCI-LF3-GWA-5 MCI- MCI- MCI- MCI- MCI-		pH = 4.60 pH = pH = pH = pH = pH = 4.59 pH = pH = pH = pH =	
Possible Hazard Identification <input type="checkbox"/> Non-Hazard <input type="checkbox"/> Flammable <input type="checkbox"/> Skin Irritant <input type="checkbox"/> Poison B <input checked="" type="checkbox"/> Unknown <input type="checkbox"/> Radiological		Sample Disposal (A fee may be assessed if samples are retained longer than 1 month) <input type="checkbox"/> Return To Client <input checked="" type="checkbox"/> Disposal By Lab <input type="checkbox"/> Archive For _____ Months	
Deliverable Requested: I, II, III, IV, Other (specify)		Special Instructions/QC Requirements: State Permit Metals: barium, beryllium, chromium, cobalt, copper, lead, vanadium, zinc	
Empty Kit Relinquished by:		Method of Shipment:	
Relinquished by: [Signature] Date/Time: 02/02/23 1000 Company: ACC		Date/Time: 02/02/23 1000 Company: ACC	
Relinquished by: [Signature] Date/Time: 02/02/23 1139 Company: ACC		Date/Time: 02/02/23 1139 Company: ACC	
Relinquished by: [Signature] Date/Time: 02/02/23 1139 Company: ACC		Date/Time: 02/02/23 1139 Company: ACC	
Custody Seals Intact: <input type="checkbox"/> Yes <input type="checkbox"/> No Custody Seal No.:		Cooler Temperature(s) °C and Other Remarks:	



Login Sample Receipt Checklist

Client: Southern Company

Job Number: 680-229877-1

Login Number: 229877

List Source: Eurofins Savannah

List Number: 1

Creator: Padayao, Abigail

Question	Answer	Comment
Radioactivity wasn't checked or is \leq background as measured by a survey meter.	N/A	
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <math><6\text{mm}</math> (1/4").	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	





ANALYTICAL REPORT

PREPARED FOR

Attn: Lauren Hartley
Southern Company
241 Ralph McGill Blvd SE
B10185
Atlanta, Georgia 30308

Generated 2/16/2023 5:58:16 AM Revision 1

JOB DESCRIPTION

Plant McIntosh Landfill #3

JOB NUMBER

680-229878-1

Eurofins Savannah

Job Notes

The test results in this report meet NELAP requirements for parameters for which accreditation is required or available. Any exceptions to the NELAP requirements are noted. Results pertain only to samples listed in this report. This report may not be reproduced, except in full, without the written approval of the laboratory. Questions should be directed to the person who signed this report.

The test results in this report relate only to the samples as received by the laboratory and will meet all requirements of the methodology, with any exceptions noted. This report shall not be reproduced except in full, without the express written approval of the laboratory. All questions should be directed to the Eurofins Environment Testing Southeast, LLC Project Manager.

Authorization



Authorized for release by
David Fuller, Project Manager
David.Fuller@et.eurofinsus.com
(770)344-8986

Generated
2/16/2023 5:58:16 AM
Revision 1

Definitions/Glossary

Client: Southern Company
Project/Site: Plant McIntosh Landfill #3

Job ID: 680-229878-1

Qualifiers

Metals

Qualifier	Qualifier Description
4	MS, MSD: The analyte present in the original sample is greater than 4 times the matrix spike concentration; therefore, control limits are not applicable.

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
α	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CFL	Contains Free Liquid
CFU	Colony Forming Unit
CNF	Contains No Free Liquid
DER	Duplicate Error Ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL	Detection Limit (DoD/DOE)
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision Level Concentration (Radiochemistry)
EDL	Estimated Detection Limit (Dioxin)
LOD	Limit of Detection (DoD/DOE)
LOQ	Limit of Quantitation (DoD/DOE)
MCL	EPA recommended "Maximum Contaminant Level"
MDA	Minimum Detectable Activity (Radiochemistry)
MDC	Minimum Detectable Concentration (Radiochemistry)
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
MPN	Most Probable Number
MQL	Method Quantitation Limit
NC	Not Calculated
ND	Not Detected at the reporting limit (or MDL or EDL if shown)
NEG	Negative / Absent
POS	Positive / Present
PQL	Practical Quantitation Limit
PRES	Presumptive
QC	Quality Control
RER	Relative Error Ratio (Radiochemistry)
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)
TNTC	Too Numerous To Count

Sample Summary

Client: Southern Company
Project/Site: Plant McIntosh Landfill #3

Job ID: 680-229878-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
680-229878-1	MCI-GWA-1B	Water	01/31/23 14:15	02/02/23 11:39
680-229878-2	MCI-GWA-2B	Water	01/31/23 16:25	02/02/23 11:39
680-229878-3	MCI-GWA-7A	Water	01/31/23 16:40	02/02/23 11:39
680-229878-4	MCI-GWC-1A	Water	01/31/23 15:20	02/02/23 11:39
680-229878-5	MCI-GWC-5A	Water	01/31/23 14:10	02/02/23 11:39
680-229878-6	MCI-GWC-6A	Water	01/31/23 15:20	02/02/23 11:39
680-229878-7	MCI-GWA-3A	Water	02/01/23 11:05	02/02/23 11:39
680-229878-8	MCI-GWA-4	Water	02/01/23 09:50	02/02/23 11:39
680-229878-9	MCI-GWC-2	Water	02/01/23 12:05	02/02/23 11:39
680-229878-10	MCI-LF3-GWC-4A	Water	02/01/23 13:05	02/02/23 11:39
680-229878-11	MCI-LF3-GWA-5	Water	02/02/23 09:30	02/02/23 11:39

1

2

3

4

5

6

7

8

9

10

11

12

Case Narrative

Client: Southern Company
Project/Site: Plant McIntosh Landfill #3

Job ID: 680-229878-1

Job ID: 680-229878-1

Laboratory: Eurofins Savannah

Narrative

**Job Narrative
680-229878-1**

Revision 1

The report being provided is a revision of the original report sent on 2/14/2023. The report (revision 1) is being revised in order to add the reference for Eurofins Savannah's primary NELAP certification with the state of Florida to the Certification Summary section of the report..

Receipt

The samples were received on 2/2/2023 11:39 AM. Unless otherwise noted below, the samples arrived in good condition, and, where required, properly preserved and on ice. The temperature of the cooler at receipt time was 0.8°C

Metals

No additional analytical or quality issues were noted, other than those described above or in the Definitions/ Glossary page.

General Chemistry

No additional analytical or quality issues were noted, other than those described above or in the Definitions/ Glossary page.



Client Sample Results

Client: Southern Company
Project/Site: Plant McIntosh Landfill #3

Job ID: 680-229878-1

Client Sample ID: MCI-GWA-1B

Lab Sample ID: 680-229878-1

Date Collected: 01/31/23 14:15

Matrix: Water

Date Received: 02/02/23 11:39

Method: SW846 6020B - Metals (ICP/MS) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Magnesium	2.2		0.50	0.023	mg/L		02/08/23 06:40	02/08/23 16:29	1
Potassium	1.2		0.50	0.044	mg/L		02/08/23 06:40	02/08/23 16:29	1
Sodium	6.1		0.50	0.20	mg/L		02/08/23 06:40	02/08/23 16:29	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Alkalinity as CaCO3 (SM 2320B-2011)	27		5.0	5.0	mg/L			02/06/23 16:26	1
Bicarbonate Alkalinity as CaCO3 (SM 2320B-2011)	27		5.0	5.0	mg/L			02/06/23 16:26	1
Carbonate Alkalinity as CaCO3 (SM 2320B-2011)	<5.0		5.0	5.0	mg/L			02/06/23 16:26	1

Client Sample ID: MCI-GWA-2B

Lab Sample ID: 680-229878-2

Date Collected: 01/31/23 16:25

Matrix: Water

Date Received: 02/02/23 11:39

Method: SW846 6020B - Metals (ICP/MS) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Magnesium	4.0		0.50	0.023	mg/L		02/08/23 06:40	02/08/23 16:33	1
Potassium	3.0		0.50	0.044	mg/L		02/08/23 06:40	02/08/23 16:33	1
Sodium	16		0.50	0.20	mg/L		02/08/23 06:40	02/08/23 16:33	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Alkalinity as CaCO3 (SM 2320B-2011)	6.9		5.0	5.0	mg/L			02/06/23 16:32	1
Bicarbonate Alkalinity as CaCO3 (SM 2320B-2011)	6.9		5.0	5.0	mg/L			02/06/23 16:32	1
Carbonate Alkalinity as CaCO3 (SM 2320B-2011)	<5.0		5.0	5.0	mg/L			02/06/23 16:32	1

Client Sample ID: MCI-GWA-7A

Lab Sample ID: 680-229878-3

Date Collected: 01/31/23 16:40

Matrix: Water

Date Received: 02/02/23 11:39

Method: SW846 6020B - Metals (ICP/MS) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Magnesium	4.3		0.50	0.023	mg/L		02/08/23 06:40	02/08/23 16:45	1
Potassium	2.9		0.50	0.044	mg/L		02/08/23 06:40	02/08/23 16:45	1
Sodium	19		0.50	0.20	mg/L		02/08/23 06:40	02/08/23 16:45	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Alkalinity as CaCO3 (SM 2320B-2011)	5.9		5.0	5.0	mg/L			02/06/23 16:39	1
Bicarbonate Alkalinity as CaCO3 (SM 2320B-2011)	5.9		5.0	5.0	mg/L			02/06/23 16:39	1
Carbonate Alkalinity as CaCO3 (SM 2320B-2011)	<5.0		5.0	5.0	mg/L			02/06/23 16:39	1

Eurofins Savannah

Client Sample Results

Client: Southern Company
Project/Site: Plant McIntosh Landfill #3

Job ID: 680-229878-1

Client Sample ID: MCI-GWC-1A

Lab Sample ID: 680-229878-4

Date Collected: 01/31/23 15:20

Matrix: Water

Date Received: 02/02/23 11:39

Method: SW846 6020B - Metals (ICP/MS) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Magnesium	3.4		0.50	0.023	mg/L		02/08/23 06:40	02/08/23 16:49	1
Potassium	2.1		0.50	0.044	mg/L		02/08/23 06:40	02/08/23 16:49	1
Sodium	6.5		0.50	0.20	mg/L		02/08/23 06:40	02/08/23 16:49	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Alkalinity as CaCO3 (SM 2320B-2011)	<5.0		5.0	5.0	mg/L			02/06/23 17:59	1
Bicarbonate Alkalinity as CaCO3 (SM 2320B-2011)	<5.0		5.0	5.0	mg/L			02/06/23 17:59	1
Carbonate Alkalinity as CaCO3 (SM 2320B-2011)	<5.0		5.0	5.0	mg/L			02/06/23 17:59	1

Client Sample ID: MCI-GWC-5A

Lab Sample ID: 680-229878-5

Date Collected: 01/31/23 14:10

Matrix: Water

Date Received: 02/02/23 11:39

Method: SW846 6020B - Metals (ICP/MS) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Magnesium	1.1		0.50	0.023	mg/L		02/08/23 06:40	02/08/23 16:53	1
Potassium	1.2		0.50	0.044	mg/L		02/08/23 06:40	02/08/23 16:53	1
Sodium	2.3		0.50	0.20	mg/L		02/08/23 06:40	02/08/23 16:53	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Alkalinity as CaCO3 (SM 2320B-2011)	7.3		5.0	5.0	mg/L			02/06/23 17:47	1
Bicarbonate Alkalinity as CaCO3 (SM 2320B-2011)	7.3		5.0	5.0	mg/L			02/06/23 17:47	1
Carbonate Alkalinity as CaCO3 (SM 2320B-2011)	<5.0		5.0	5.0	mg/L			02/06/23 17:47	1

Client Sample ID: MCI-GWC-6A

Lab Sample ID: 680-229878-6

Date Collected: 01/31/23 15:20

Matrix: Water

Date Received: 02/02/23 11:39

Method: SW846 6020B - Metals (ICP/MS) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Magnesium	1.5		0.50	0.023	mg/L		02/08/23 06:40	02/08/23 16:57	1
Potassium	1.7		0.50	0.044	mg/L		02/08/23 06:40	02/08/23 16:57	1
Sodium	7.3		0.50	0.20	mg/L		02/08/23 06:40	02/08/23 16:57	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Alkalinity as CaCO3 (SM 2320B-2011)	10		5.0	5.0	mg/L			02/06/23 17:34	1
Bicarbonate Alkalinity as CaCO3 (SM 2320B-2011)	10		5.0	5.0	mg/L			02/06/23 17:34	1
Carbonate Alkalinity as CaCO3 (SM 2320B-2011)	<5.0		5.0	5.0	mg/L			02/06/23 17:34	1

Eurofins Savannah

Client Sample Results

Client: Southern Company
 Project/Site: Plant McIntosh Landfill #3

Job ID: 680-229878-1

Client Sample ID: MCI-GWA-3A

Lab Sample ID: 680-229878-7

Date Collected: 02/01/23 11:05

Matrix: Water

Date Received: 02/02/23 11:39

Method: SW846 6020B - Metals (ICP/MS) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Magnesium	2.1		0.50	0.023	mg/L		02/08/23 06:40	02/08/23 17:01	1
Potassium	3.6		0.50	0.044	mg/L		02/08/23 06:40	02/08/23 17:01	1
Sodium	11		0.50	0.20	mg/L		02/08/23 06:40	02/08/23 17:01	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Alkalinity as CaCO3 (SM 2320B-2011)	<5.0		5.0	5.0	mg/L			02/06/23 17:40	1
Bicarbonate Alkalinity as CaCO3 (SM 2320B-2011)	<5.0		5.0	5.0	mg/L			02/06/23 17:40	1
Carbonate Alkalinity as CaCO3 (SM 2320B-2011)	<5.0		5.0	5.0	mg/L			02/06/23 17:40	1

Client Sample ID: MCI-GWA-4

Lab Sample ID: 680-229878-8

Date Collected: 02/01/23 09:50

Matrix: Water

Date Received: 02/02/23 11:39

Method: SW846 6020B - Metals (ICP/MS) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Magnesium	1.0		0.50	0.023	mg/L		02/08/23 06:40	02/08/23 17:05	1
Potassium	1.4		0.50	0.044	mg/L		02/08/23 06:40	02/08/23 17:05	1
Sodium	4.5		0.50	0.20	mg/L		02/08/23 06:40	02/08/23 17:05	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Alkalinity as CaCO3 (SM 2320B-2011)	<5.0		5.0	5.0	mg/L			02/06/23 17:27	1
Bicarbonate Alkalinity as CaCO3 (SM 2320B-2011)	<5.0		5.0	5.0	mg/L			02/06/23 17:27	1
Carbonate Alkalinity as CaCO3 (SM 2320B-2011)	<5.0		5.0	5.0	mg/L			02/06/23 17:27	1

Client Sample ID: MCI-GWC-2

Lab Sample ID: 680-229878-9

Date Collected: 02/01/23 12:05

Matrix: Water

Date Received: 02/02/23 11:39

Method: SW846 6020B - Metals (ICP/MS) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Magnesium	0.92		0.50	0.023	mg/L		02/08/23 06:40	02/08/23 17:09	1
Potassium	1.8		0.50	0.044	mg/L		02/08/23 06:40	02/08/23 17:09	1
Sodium	4.8		0.50	0.20	mg/L		02/08/23 06:40	02/08/23 17:09	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Alkalinity as CaCO3 (SM 2320B-2011)	7.4		5.0	5.0	mg/L			02/06/23 17:21	1
Bicarbonate Alkalinity as CaCO3 (SM 2320B-2011)	7.4		5.0	5.0	mg/L			02/06/23 17:21	1
Carbonate Alkalinity as CaCO3 (SM 2320B-2011)	<5.0		5.0	5.0	mg/L			02/06/23 17:21	1

Client Sample Results

Client: Southern Company
 Project/Site: Plant McIntosh Landfill #3

Job ID: 680-229878-1

Client Sample ID: MCI-LF3-GWC-4A

Lab Sample ID: 680-229878-10

Date Collected: 02/01/23 13:05

Matrix: Water

Date Received: 02/02/23 11:39

Method: SW846 6020B - Metals (ICP/MS) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Magnesium	0.90		0.50	0.023	mg/L		02/08/23 06:40	02/08/23 17:13	1
Potassium	0.86		0.50	0.044	mg/L		02/08/23 06:40	02/08/23 17:13	1
Sodium	2.6		0.50	0.20	mg/L		02/08/23 06:40	02/08/23 17:13	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Alkalinity as CaCO3 (SM 2320B-2011)	<5.0		5.0	5.0	mg/L			02/06/23 17:07	1
Bicarbonate Alkalinity as CaCO3 (SM 2320B-2011)	<5.0		5.0	5.0	mg/L			02/06/23 17:07	1
Carbonate Alkalinity as CaCO3 (SM 2320B-2011)	<5.0		5.0	5.0	mg/L			02/06/23 17:07	1

Client Sample ID: MCI-LF3-GWA-5

Lab Sample ID: 680-229878-11

Date Collected: 02/02/23 09:30

Matrix: Water

Date Received: 02/02/23 11:39

Method: SW846 6020B - Metals (ICP/MS) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Magnesium	2.6		0.50	0.023	mg/L		02/08/23 06:40	02/08/23 17:17	1
Potassium	2.1		0.50	0.044	mg/L		02/08/23 06:40	02/08/23 17:17	1
Sodium	7.9		0.50	0.20	mg/L		02/08/23 06:40	02/08/23 17:17	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Alkalinity as CaCO3 (SM 2320B-2011)	<5.0		5.0	5.0	mg/L			02/06/23 17:53	1
Bicarbonate Alkalinity as CaCO3 (SM 2320B-2011)	<5.0		5.0	5.0	mg/L			02/06/23 17:53	1
Carbonate Alkalinity as CaCO3 (SM 2320B-2011)	<5.0		5.0	5.0	mg/L			02/06/23 17:53	1

QC Sample Results

Client: Southern Company
Project/Site: Plant McIntosh Landfill #3

Job ID: 680-229878-1

Method: 6020B - Metals (ICP/MS)

Lab Sample ID: MB 680-762421/1-A
Matrix: Water
Analysis Batch: 762638

Client Sample ID: Method Blank
Prep Type: Total Recoverable
Prep Batch: 762421

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Magnesium	<0.023		0.50	0.023	mg/L		02/08/23 06:40	02/08/23 15:56	1
Potassium	<0.044		0.50	0.044	mg/L		02/08/23 06:40	02/08/23 15:56	1
Sodium	<0.20		0.50	0.20	mg/L		02/08/23 06:40	02/08/23 15:56	1

Lab Sample ID: LCS 680-762421/2-A
Matrix: Water
Analysis Batch: 762638

Client Sample ID: Lab Control Sample
Prep Type: Total Recoverable
Prep Batch: 762421

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Magnesium	5.01	4.89		mg/L		98	80 - 120
Potassium	6.97	7.02		mg/L		101	80 - 120
Sodium	5.05	5.08		mg/L		101	80 - 120

Lab Sample ID: 752-2324-G-3-C MSD
Matrix: Water
Analysis Batch: 762638

Client Sample ID: Matrix Spike Duplicate
Prep Type: Total Recoverable
Prep Batch: 762421

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Magnesium	18		5.01	23.5		mg/L		104	75 - 125	1	20
Potassium	1.3		6.97	9.08		mg/L		112	75 - 125	1	20
Sodium	43		5.05	48.6	4	mg/L		107	75 - 125	4	20

Lab Sample ID: 752-2324-H-3-D MS
Matrix: Water
Analysis Batch: 762638

Client Sample ID: Matrix Spike
Prep Type: Total Recoverable
Prep Batch: 762421

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Magnesium	18		5.01	23.6		mg/L		108	75 - 125
Potassium	1.3		6.97	8.95		mg/L		110	75 - 125
Sodium	43		5.05	50.4	4	mg/L		142	75 - 125

Method: 2320B-2011 - Alkalinity, Total

Lab Sample ID: MB 680-762280/4
Matrix: Water
Analysis Batch: 762280

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Alkalinity as CaCO3	<5.0		5.0	5.0	mg/L			02/06/23 14:44	1
Bicarbonate Alkalinity as CaCO3	<5.0		5.0	5.0	mg/L			02/06/23 14:44	1
Carbonate Alkalinity as CaCO3	<5.0		5.0	5.0	mg/L			02/06/23 14:44	1

Lab Sample ID: LCS 680-762280/6
Matrix: Water
Analysis Batch: 762280

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Total Alkalinity as CaCO3	250	249		mg/L		100	90 - 112

Eurofins Savannah

QC Sample Results

Client: Southern Company
 Project/Site: Plant McIntosh Landfill #3

Job ID: 680-229878-1

Method: 2320B-2011 - Alkalinity, Total (Continued)

Lab Sample ID: LCSD 680-762280/31
Matrix: Water
Analysis Batch: 762280

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Total Alkalinity as CaCO3	250	253		mg/L		101	90 - 112	2	30

Lab Sample ID: 680-229878-10 DU
Matrix: Water
Analysis Batch: 762280

Client Sample ID: MCI-LF3-GWC-4A
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
Total Alkalinity as CaCO3	<5.0		<5.0		mg/L		NC	30
Bicarbonate Alkalinity as CaCO3	<5.0		<5.0		mg/L		NC	30
Carbonate Alkalinity as CaCO3	<5.0		<5.0		mg/L		NC	30

QC Association Summary

Client: Southern Company
Project/Site: Plant McIntosh Landfill #3

Job ID: 680-229878-1

Metals

Prep Batch: 762421

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-229878-1	MCI-GWA-1B	Total Recoverable	Water	3005A	
680-229878-2	MCI-GWA-2B	Total Recoverable	Water	3005A	
680-229878-3	MCI-GWA-7A	Total Recoverable	Water	3005A	
680-229878-4	MCI-GWC-1A	Total Recoverable	Water	3005A	
680-229878-5	MCI-GWC-5A	Total Recoverable	Water	3005A	
680-229878-6	MCI-GWC-6A	Total Recoverable	Water	3005A	
680-229878-7	MCI-GWA-3A	Total Recoverable	Water	3005A	
680-229878-8	MCI-GWA-4	Total Recoverable	Water	3005A	
680-229878-9	MCI-GWC-2	Total Recoverable	Water	3005A	
680-229878-10	MCI-LF3-GWC-4A	Total Recoverable	Water	3005A	
680-229878-11	MCI-LF3-GWA-5	Total Recoverable	Water	3005A	
MB 680-762421/1-A	Method Blank	Total Recoverable	Water	3005A	
LCS 680-762421/2-A	Lab Control Sample	Total Recoverable	Water	3005A	
752-2324-G-3-C MSD	Matrix Spike Duplicate	Total Recoverable	Water	3005A	
752-2324-H-3-D MS	Matrix Spike	Total Recoverable	Water	3005A	

Analysis Batch: 762638

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-229878-1	MCI-GWA-1B	Total Recoverable	Water	6020B	762421
680-229878-2	MCI-GWA-2B	Total Recoverable	Water	6020B	762421
680-229878-3	MCI-GWA-7A	Total Recoverable	Water	6020B	762421
680-229878-4	MCI-GWC-1A	Total Recoverable	Water	6020B	762421
680-229878-5	MCI-GWC-5A	Total Recoverable	Water	6020B	762421
680-229878-6	MCI-GWC-6A	Total Recoverable	Water	6020B	762421
680-229878-7	MCI-GWA-3A	Total Recoverable	Water	6020B	762421
680-229878-8	MCI-GWA-4	Total Recoverable	Water	6020B	762421
680-229878-9	MCI-GWC-2	Total Recoverable	Water	6020B	762421
680-229878-10	MCI-LF3-GWC-4A	Total Recoverable	Water	6020B	762421
680-229878-11	MCI-LF3-GWA-5	Total Recoverable	Water	6020B	762421
MB 680-762421/1-A	Method Blank	Total Recoverable	Water	6020B	762421
LCS 680-762421/2-A	Lab Control Sample	Total Recoverable	Water	6020B	762421
752-2324-G-3-C MSD	Matrix Spike Duplicate	Total Recoverable	Water	6020B	762421
752-2324-H-3-D MS	Matrix Spike	Total Recoverable	Water	6020B	762421

General Chemistry

Analysis Batch: 762280

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-229878-1	MCI-GWA-1B	Total/NA	Water	2320B-2011	
680-229878-2	MCI-GWA-2B	Total/NA	Water	2320B-2011	
680-229878-3	MCI-GWA-7A	Total/NA	Water	2320B-2011	
680-229878-4	MCI-GWC-1A	Total/NA	Water	2320B-2011	
680-229878-5	MCI-GWC-5A	Total/NA	Water	2320B-2011	
680-229878-6	MCI-GWC-6A	Total/NA	Water	2320B-2011	
680-229878-7	MCI-GWA-3A	Total/NA	Water	2320B-2011	
680-229878-8	MCI-GWA-4	Total/NA	Water	2320B-2011	
680-229878-9	MCI-GWC-2	Total/NA	Water	2320B-2011	
680-229878-10	MCI-LF3-GWC-4A	Total/NA	Water	2320B-2011	
680-229878-11	MCI-LF3-GWA-5	Total/NA	Water	2320B-2011	
MB 680-762280/4	Method Blank	Total/NA	Water	2320B-2011	
LCS 680-762280/6	Lab Control Sample	Total/NA	Water	2320B-2011	

Eurofins Savannah

QC Association Summary

Client: Southern Company
Project/Site: Plant McIntosh Landfill #3

Job ID: 680-229878-1

General Chemistry (Continued)

Analysis Batch: 762280 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
LCSD 680-762280/31	Lab Control Sample Dup	Total/NA	Water	2320B-2011	
680-229878-10 DU	MCI-LF3-GWC-4A	Total/NA	Water	2320B-2011	

1

2

3

4

5

6

7

8

9

10

11

12

Lab Chronicle

Client: Southern Company
Project/Site: Plant McIntosh Landfill #3

Job ID: 680-229878-1

Client Sample ID: MCI-GWA-1B

Lab Sample ID: 680-229878-1

Date Collected: 01/31/23 14:15

Matrix: Water

Date Received: 02/02/23 11:39

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total Recoverable	Prep	3005A			25 mL	125 mL	762421	02/08/23 06:40	RR	EET SAV
Total Recoverable	Analysis	6020B		1			762638	02/08/23 16:29	BWR	EET SAV
Instrument ID: ICPMSC										
Total/NA	Analysis	2320B-2011		1			762280	02/06/23 16:26	PG	EET SAV
Instrument ID: MANTECH 2										

Client Sample ID: MCI-GWA-2B

Lab Sample ID: 680-229878-2

Date Collected: 01/31/23 16:25

Matrix: Water

Date Received: 02/02/23 11:39

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total Recoverable	Prep	3005A			25 mL	125 mL	762421	02/08/23 06:40	RR	EET SAV
Total Recoverable	Analysis	6020B		1			762638	02/08/23 16:33	BWR	EET SAV
Instrument ID: ICPMSC										
Total/NA	Analysis	2320B-2011		1			762280	02/06/23 16:32	PG	EET SAV
Instrument ID: MANTECH 2										

Client Sample ID: MCI-GWA-7A

Lab Sample ID: 680-229878-3

Date Collected: 01/31/23 16:40

Matrix: Water

Date Received: 02/02/23 11:39

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total Recoverable	Prep	3005A			25 mL	125 mL	762421	02/08/23 06:40	RR	EET SAV
Total Recoverable	Analysis	6020B		1			762638	02/08/23 16:45	BWR	EET SAV
Instrument ID: ICPMSC										
Total/NA	Analysis	2320B-2011		1			762280	02/06/23 16:39	PG	EET SAV
Instrument ID: MANTECH 2										

Client Sample ID: MCI-GWC-1A

Lab Sample ID: 680-229878-4

Date Collected: 01/31/23 15:20

Matrix: Water

Date Received: 02/02/23 11:39

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total Recoverable	Prep	3005A			25 mL	125 mL	762421	02/08/23 06:40	RR	EET SAV
Total Recoverable	Analysis	6020B		1			762638	02/08/23 16:49	BWR	EET SAV
Instrument ID: ICPMSC										
Total/NA	Analysis	2320B-2011		1			762280	02/06/23 17:59	PG	EET SAV
Instrument ID: MANTECH 2										

Lab Chronicle

Client: Southern Company
 Project/Site: Plant McIntosh Landfill #3

Job ID: 680-229878-1

Client Sample ID: MCI-GWC-5A

Lab Sample ID: 680-229878-5

Date Collected: 01/31/23 14:10

Matrix: Water

Date Received: 02/02/23 11:39

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total Recoverable	Prep	3005A			25 mL	125 mL	762421	02/08/23 06:40	RR	EET SAV
Total Recoverable	Analysis	6020B		1			762638	02/08/23 16:53	BWR	EET SAV
		Instrument ID: ICPMSC								
Total/NA	Analysis	2320B-2011		1			762280	02/06/23 17:47	PG	EET SAV
		Instrument ID: MANTECH 2								

Client Sample ID: MCI-GWC-6A

Lab Sample ID: 680-229878-6

Date Collected: 01/31/23 15:20

Matrix: Water

Date Received: 02/02/23 11:39

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total Recoverable	Prep	3005A			25 mL	125 mL	762421	02/08/23 06:40	RR	EET SAV
Total Recoverable	Analysis	6020B		1			762638	02/08/23 16:57	BWR	EET SAV
		Instrument ID: ICPMSC								
Total/NA	Analysis	2320B-2011		1			762280	02/06/23 17:34	PG	EET SAV
		Instrument ID: MANTECH 2								

Client Sample ID: MCI-GWA-3A

Lab Sample ID: 680-229878-7

Date Collected: 02/01/23 11:05

Matrix: Water

Date Received: 02/02/23 11:39

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total Recoverable	Prep	3005A			25 mL	125 mL	762421	02/08/23 06:40	RR	EET SAV
Total Recoverable	Analysis	6020B		1			762638	02/08/23 17:01	BWR	EET SAV
		Instrument ID: ICPMSC								
Total/NA	Analysis	2320B-2011		1			762280	02/06/23 17:40	PG	EET SAV
		Instrument ID: MANTECH 2								

Client Sample ID: MCI-GWA-4

Lab Sample ID: 680-229878-8

Date Collected: 02/01/23 09:50

Matrix: Water

Date Received: 02/02/23 11:39

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total Recoverable	Prep	3005A			25 mL	125 mL	762421	02/08/23 06:40	RR	EET SAV
Total Recoverable	Analysis	6020B		1			762638	02/08/23 17:05	BWR	EET SAV
		Instrument ID: ICPMSC								
Total/NA	Analysis	2320B-2011		1			762280	02/06/23 17:27	PG	EET SAV
		Instrument ID: MANTECH 2								

Lab Chronicle

Client: Southern Company
Project/Site: Plant McIntosh Landfill #3

Job ID: 680-229878-1

Client Sample ID: MCI-GWC-2

Lab Sample ID: 680-229878-9

Date Collected: 02/01/23 12:05

Matrix: Water

Date Received: 02/02/23 11:39

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total Recoverable	Prep	3005A			25 mL	125 mL	762421	02/08/23 06:40	RR	EET SAV
Total Recoverable	Analysis	6020B		1			762638	02/08/23 17:09	BWR	EET SAV
Instrument ID: ICPMSC										
Total/NA	Analysis	2320B-2011		1			762280	02/06/23 17:21	PG	EET SAV
Instrument ID: MANTECH 2										

Client Sample ID: MCI-LF3-GWC-4A

Lab Sample ID: 680-229878-10

Date Collected: 02/01/23 13:05

Matrix: Water

Date Received: 02/02/23 11:39

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total Recoverable	Prep	3005A			25 mL	125 mL	762421	02/08/23 06:40	RR	EET SAV
Total Recoverable	Analysis	6020B		1			762638	02/08/23 17:13	BWR	EET SAV
Instrument ID: ICPMSC										
Total/NA	Analysis	2320B-2011		1			762280	02/06/23 17:07	PG	EET SAV
Instrument ID: MANTECH 2										

Client Sample ID: MCI-LF3-GWA-5

Lab Sample ID: 680-229878-11

Date Collected: 02/02/23 09:30

Matrix: Water

Date Received: 02/02/23 11:39

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total Recoverable	Prep	3005A			25 mL	125 mL	762421	02/08/23 06:40	RR	EET SAV
Total Recoverable	Analysis	6020B		1			762638	02/08/23 17:17	BWR	EET SAV
Instrument ID: ICPMSC										
Total/NA	Analysis	2320B-2011		1			762280	02/06/23 17:53	PG	EET SAV
Instrument ID: MANTECH 2										

Laboratory References:

EET SAV = Eurofins Savannah, 5102 LaRoche Avenue, Savannah, GA 31404, TEL (912)354-7858

Accreditation/Certification Summary

Client: Southern Company
Project/Site: Plant McIntosh Landfill #3

Job ID: 680-229878-1

Laboratory: Eurofins Savannah

The accreditations/certifications listed below are applicable to this report.

Authority	Program	Identification Number	Expiration Date
Florida	NELAP	E87052	06-30-23
Georgia	State	E87052	06-30-23

1

2

3

4

5

6

7

8

9

10

11

12

Method Summary

Client: Southern Company
Project/Site: Plant McIntosh Landfill #3

Job ID: 680-229878-1

Method	Method Description	Protocol	Laboratory
6020B	Metals (ICP/MS)	SW846	EET SAV
2320B-2011	Alkalinity, Total	SM	EET SAV
3005A	Preparation, Total Recoverable or Dissolved Metals	SW846	EET SAV

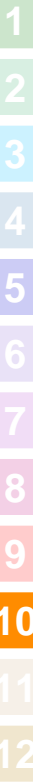
Protocol References:

SM = "Standard Methods For The Examination Of Water And Wastewater"

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

Laboratory References:

EET SAV = Eurofins Savannah, 5102 LaRoche Avenue, Savannah, GA 31404, TEL (912)354-7858



Chain of Custody Record

Client Information		Sampler:		Carrier Tracking No(s):		COC No.:	
Client Contact: SCS Contacts		ACC Fuller, David					
Company: GA Power		Phone: 770-594-5998		E-Mail: david.fuller@et.eurofins.com		Page: 1 of 1	
Address: 241 Ralph McGill Blvd SE		Due Date Requested:		Analysis Requested		Job #:	
City: Atlanta		TAT Requested (days):		Cations: Mg, Na, K		Preservation Codes:	
State, Zip: GA, 30308		<i>Standard</i>		Field Filtered Sample (Yes or No)		A - HCL B - NaOH C - Zn Acetate D - Nitric Acid E - NaHSO4 F - MeOH G - Amchlor H - Ascorbic Acid I - Ice J - DI Water K - EDTA L - EDA Other:	
Phone: 404-506-7116(Tel)		Lab Project #:		Total Number of Containers		M - Hexane N - None O - AsNaO2 P - Na2O4S Q - Na2SO3 R - Na2S2O3 S - H2SO4 T - TSP Dodecahydrate U - Acetone V - MCAA W - pH 4-5 Z - other (Specify)	
Email: SCS Contacts / ACC Contacts		PO #:		Cation: Mg, Na, K		Task Code: MCI-CCR-ASSMT-2023S1	
Project Name: Plant McIntosh Landfill 3		Project #:		Field Filtered Sample (Yes or No)		Special Instructions/Note: ALK + 3 Cations (Report Separately)	
Site: Georgia		SSOW#:		Matrix (If ground water, use water, W; otherwise, control)			
Sample Identification	Sample Date (mm/dd/yy)	Sample Time (hh:mm)	Sample Type (C=Comp, G=grab)	Preservation Code	Field Filtered Sample (Yes or No)	Cations: Mg, Na, K	Total Number of Containers
MCI-GWA-1B	01/31/23	1415	G	WG	N	✓	2
MCI-GWA-2B	01/31/23	1625	G	WG	N	✓	2
MCI-GWA-7A	01/31/23	1640	G	WG	N	✓	2
MCI-GWC-1A	01/31/23	1520	G	WG	N	✓	2
MCI-GWC-5A	01/31/23	1410	G	WG	N	✓	2
MCI-GWC-6A	01/31/23	1520	G	WG	N	✓	2
MCI-GWA-3A	02/01/23	1105	G	WG	N	✓	2
MCI-GWA-4	02/01/23	0950	G	WG	N	✓	2
MCI-GWC-2	02/01/23	1205	G	WG	N	✓	2
MCI-LF3-GWC-4A	02/01/23	1250	G	WG	N	✓	2
MCI-LF3-GWA-5	02/02/23	0430	G	WG	N	✓	2

Possible Hazard Identification <input type="checkbox"/> Non-Hazard <input type="checkbox"/> Flammable <input type="checkbox"/> Skin Irritant <input type="checkbox"/> Poison B <input checked="" type="checkbox"/> Unknown <input type="checkbox"/> Radiological		Sample Disposal (A fee may be assessed if samples are retained longer than 1 month) <input type="checkbox"/> Return To Client <input checked="" type="checkbox"/> Disposal By Lab <input type="checkbox"/> Archive For _____ Months	
Deliverable Requested: I, II, III, IV, Other (specify)		Special Instructions/QC Requirements: Additional Cations: magnesium, sodium, potassium	
Empty Kit Relinquished by:		Method of Shipment:	
Relinquished by: <i>David Fuller</i>	Date: 02/02/23	Company: ACC	Received by: <i>ACC</i>
Relinquished by: <i>David Fuller</i>	Date: 02/02/23	Company: ACC	Received by: <i>ACC</i>
Relinquished by:	Date:	Company:	Received by:
Custody Seals Intact: Δ Yes Δ No	Custody Seal No.:	Cooler Temperature: °C and Other Remarks:	



Login Sample Receipt Checklist

Client: Southern Company

Job Number: 680-229878-1

Login Number: 229878

List Source: Eurofins Savannah

List Number: 1

Creator: Padayao, Abigail

Question	Answer	Comment
Radioactivity wasn't checked or is </= background as measured by a survey meter.	N/A	
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	

LEVEL 2A LABORATORY DATA VALIDATIONS

McIntosh Inactive Landfill No. 3

Annual Event

February 2023

Georgia Power Company – McIntosh Landfill 3

Quality Control Review of Analytical Data – February 2023

This narrative presents results of the Quality Control (QC) data review performed on analytical data submitted by Eurofins Environment Testing America, Savannah for groundwater samples collected at McIntosh Landfill 3 (LF3) between January 31, 2023 and February 2, 2023. 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.

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 permit-required state metals. Test methods included Inductively Coupled Plasma – Mass Spectrometry (USEPA Method 6020B), Determination of Inorganic Anions (USEPA Method 300.0), and Solids in Water (Standard Methods 2540C).

Data were reviewed in accordance with the US EPA Region IV Data Validation Standard Operating Procedures for Contract Laboratory Program Inorganic Data by Inductively Coupled Plasma – Atomic Emission Spectroscopy and Inductively Coupled Plasma – Mass Spectroscopy (September 2011, Rev. 2.0)¹ and the National Functional Guidelines for Inorganic Superfund Methods Data Review (January 2017)². The review included an assessment of the results for completeness, precision (laboratory duplicate recoveries and matrix spike/matrix spike duplicate recoveries), accuracy (laboratory control samples and matrix spike samples), and blank contamination (field, equipment, and laboratory blanks). Sample receipt conditions, holding times, and chains of custody 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.

Field Precision: Field goals for precision were met.

Accuracy: Laboratory goals for accuracy were met, except for fluoride from MCI-LF3-FD-05 (680-229877-7) as described in the qualifications section below.

Detection Limits: Project goals for detection limits were met.

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

Holding Times: Holding time requirements were met.

QUALIFICATIONS

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

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

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

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

- Sample MCI-LF3-FD-05 (680-229877-7) was qualified as estimated (J) for fluoride as the associated matrix spike (MS) and matrix spike duplicate (MSD) recoveries were outside QC criteria (122% and 121%, respectively, outside the range of 80-120).

Atlantic Coast Consulting, Inc. reviewed the laboratory data from McIntosh LF3 sampled between January 31, 2023 and February 2, 2023 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

¹US EPA, 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

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

Plant McIntosh Inactive Landfill No. 3
 2023 Annual Groundwater Monitoring and Corrective Action Report

TABLE 1
 Georgia Power Company – McIntosh LF3
 Sample Summary Table – January/February 2023

SDG	Field Identification	Collection Date	Lab Identification	Matrix	QC Samples	Analyses		
						Metals (6020B)	Anions (300.0)	TDS (SM 2540C)
229877	MCI-GWA-1B	01/31/23	680-229877-1	WG		X	X	X
229877	MCI-GWA-2B	01/31/23	680-229877-2	WG		X	X	X
229877	MCI-GWA-7A	01/31/23	680-229877-3	WG		X	X	X
229877	MCI-GWC-1A	01/31/23	680-229877-4	WG		X	X	X
229877	MCI-GWC-5A	01/31/23	680-229877-5	WG		X	X	X
229877	MCI-GWC-6A	01/31/23	680-229877-6	WG		X	X	X
229877	MCI-LF3-FD-05	01/31/23	680-229877-7	WG	FD (MCI-GWC-1A)	X	X	X
229877	MCI-LF3-FB-09	01/31/23	680-229877-8	WQ	FB	X	X	X
229877	MCI-GWA-3A	02/01/23	680-229877-9	WG		X	X	X
229877	MCI-GWA-4	02/01/23	680-229877-10	WG		X	X	X
229877	MCI-GWC-2	02/01/23	680-229877-11	WG		X	X	X
229877	MCI-LF3-GWC-4A	02/01/23	680-229877-12	WG		X	X	X
229877	MCI-LF3-FD-06	02/01/23	680-229877-13	WG	FD (MCI-GWC-2)	X	X	X
229877	MCI-LF3-FB-06	02/01/23	680-229877-14	WQ	FB	X	X	X
229877	MCI-LF3-EB-11	02/01/23	680-229877-15	WQ	EB	X	X	X
229877	MCI-LF3-EB-12	02/01/23	680-229877-16	WQ	EB	X	X	X
229877	MCI-LF3-GWA-5	02/02/23	680-229877-17	WG		X	X	X

Abbreviations:
 EB – Equipment Blank
 FB – Field Blank
 FD – Field Duplicate
 WG – Groundwater
 QC – Quality Control
 SDG – Sample Delivery Group
 TDS – Total Dissolved Solids
 WQ – Water Quality Control

Plant McIntosh Inactive Landfill No. 3
 2023 Annual Groundwater Monitoring and Corrective Action Report

TABLE 2
 Georgia Power Company – McIntosh LF3
 Qualifier Summary Table – January/February 2023

SDG	Field Identification	Constituent	New RL	New MDL or MDC	Qualifier	Reason
229877	MCI-LF3-FD-05	Fluoride			J	MS/MSD outside QC criteria

Abbreviations:

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

Qualifiers:

J – Estimated Result
 ND – Non-Detect Result

Low-Flow Test Report:

Test Date / Time: 1/31/2023 1:45:13 PM

Project: Plant McIntosh LF3

Operator Name: Toby Johnson

Location Name: GWA-1B Well Diameter: 2 in Casing Type: PVC Screen Length: 10 ft Top of Screen: 48.53 ft Total Depth: 58.53 ft Initial Depth to Water: 22.88 ft	Pump Type: Peri Pump Tubing Type: Poly Pump Intake From TOC: 53 ft Estimated Total Volume Pumped: 7.5 liter Flow Cell Volume: 90 ml Final Flow Rate: 250 ml/min Final Draw Down: 2.64 in	Instrument Used: Aqua TROLL 400 Serial Number: 965658
---	---	--

Test Notes:

Cloudy, sampled at 1415

Low-Flow Readings:

Date Time	Elapsed Time	pH	Temperature	Specific Conductivity	RDO Concentration	Turbidity	ORP	Depth to Water	Flow
		+/- 0.1	+/- 2	+/- 5 %	+/- 10 %	+/- 10	+/- 100	+/- 5	
1/31/2023 1:45 PM	00:00	5.83 pH	21.93 °C	67.75 µS/cm	3.72 mg/L	3.42 NTU	101.6 mV	22.88 ft	250.00 ml/min
1/31/2023 1:50 PM	05:00	5.82 pH	20.06 °C	55.59 µS/cm	0.46 mg/L	3.86 NTU	81.8 mV	23.00 ft	250.00 ml/min
1/31/2023 1:55 PM	10:00	5.95 pH	19.89 °C	60.13 µS/cm	0.24 mg/L	2.07 NTU	77.2 mV	23.10 ft	250.00 ml/min
1/31/2023 2:00 PM	15:00	6.05 pH	19.88 °C	64.29 µS/cm	0.20 mg/L	2.91 NTU	74.8 mV	23.10 ft	250.00 ml/min
1/31/2023 2:05 PM	20:00	6.06 pH	19.92 °C	67.01 µS/cm	0.22 mg/L	1.93 NTU	83.2 mV	23.10 ft	250.00 ml/min
1/31/2023 2:10 PM	25:00	6.12 pH	19.90 °C	68.27 µS/cm	0.20 mg/L	2.06 NTU	77.3 mV	23.10 ft	250.00 ml/min
1/31/2023 2:15 PM	30:00	6.15 pH	19.83 °C	69.95 µS/cm	0.21 mg/L	1.36 NTU	76.9 mV	23.10 ft	250.00 ml/min

Samples

Sample ID:	Description:
------------	--------------

Low-Flow Test Report:

Test Date / Time: 1/31/2023 3:55:10 PM

Project: Plant McIntosh LF3

Operator Name: Toby Johnson

Location Name: GWA-2B Well Diameter: 2 in Casing Type: PVC Screen Length: 10 ft Top of Screen: 41.78 ft Total Depth: 51.78 ft Initial Depth to Water: 20.49 ft	Pump Type: Peri Pump Tubing Type: Poly Pump Intake From TOC: 46 ft Estimated Total Volume Pumped: 3.6 liter Flow Cell Volume: 90 ml Final Flow Rate: 120 ml/min Final Draw Down: 15.72 in	Instrument Used: Aqua TROLL 400 Serial Number: 965658
---	--	--

Test Notes:

Cloudy, sampled at 1625

Low-Flow Readings:

Date Time	Elapsed Time	pH	Temperature	Specific Conductivity	RDO Concentration	Turbidity	ORP	Depth to Water	Flow
		+/- 0.1	+/- 2	+/- 5 %	+/- 10 %	+/- 10	+/- 100	+/- 5	
1/31/2023 3:55 PM	00:00	5.37 pH	20.61 °C	177.03 µS/cm	1.64 mg/L	4.78 NTU	104.4 mV	20.49 ft	120.00 ml/min
1/31/2023 4:00 PM	05:00	5.33 pH	19.81 °C	169.55 µS/cm	0.41 mg/L	3.37 NTU	107.0 mV	21.40 ft	120.00 ml/min
1/31/2023 4:05 PM	10:00	5.30 pH	19.72 °C	174.08 µS/cm	0.31 mg/L	2.96 NTU	107.2 mV	21.60 ft	120.00 ml/min
1/31/2023 4:10 PM	15:00	5.19 pH	19.63 °C	182.19 µS/cm	0.27 mg/L	4.80 NTU	106.6 mV	21.70 ft	120.00 ml/min
1/31/2023 4:15 PM	20:00	5.14 pH	19.59 °C	185.05 µS/cm	0.25 mg/L	2.30 NTU	105.9 mV	21.80 ft	120.00 ml/min
1/31/2023 4:20 PM	25:00	5.09 pH	19.57 °C	186.90 µS/cm	0.23 mg/L	2.50 NTU	105.3 mV	21.80 ft	120.00 ml/min
1/31/2023 4:25 PM	30:00	5.07 pH	19.54 °C	188.03 µS/cm	0.22 mg/L	2.14 NTU	104.8 mV	21.80 ft	120.00 ml/min

Samples

Sample ID:	Description:
------------	--------------

Low-Flow Test Report:

Test Date / Time: 2/1/2023 10:30:10 AM

Project: Plant McIntosh LF3

Operator Name: J. Berisford

Location Name: GWA-3A Well Diameter: 2 in Casing Type: PVC Screen Length: 10 ft Top of Screen: 23.88 ft Total Depth: 33.88 ft Initial Depth to Water: 17.01 ft	Pump Type: Peri. Pump Tubing Type: Poly Pump Intake From TOC: 28 ft Estimated Total Volume Pumped: 5.2 liter Flow Cell Volume: 90 ml Final Flow Rate: 150 ml/min Final Draw Down: 17.8 in	Instrument Used: Aqua TROLL 400 Serial Number: 965678
---	--	--

Test Notes:

Sunny, sample time-1105

Low-Flow Readings:

Date Time	Elapsed Time	pH	Temperature	Specific Conductivity	RDO Concentration	Turbidity	ORP	Depth to Water	Flow
		+/- 0.1	+/- 10	+/- 5 %	+/- 10 %	+/- 5	+/- 100	+/- 0.3	
2/1/2023 10:30 AM	00:00	5.34 pH	23.21 °C	0.00 µS/cm	8.57 mg/L	1.30 NTU	74.4 mV	17.01 ft	150.00 ml/min
2/1/2023 10:35 AM	05:00	4.73 pH	21.20 °C	72.55 µS/cm	3.37 mg/L	1.32 NTU	131.3 mV	17.40 ft	150.00 ml/min
2/1/2023 10:40 AM	10:00	4.74 pH	20.48 °C	73.35 µS/cm	3.06 mg/L	1.28 NTU	129.2 mV	17.80 ft	150.00 ml/min
2/1/2023 10:45 AM	15:00	4.72 pH	20.31 °C	74.11 µS/cm	2.91 mg/L	1.14 NTU	130.0 mV	18.00 ft	150.00 ml/min
2/1/2023 10:50 AM	20:00	4.59 pH	20.31 °C	81.75 µS/cm	1.24 mg/L	1.84 NTU	116.5 mV	18.20 ft	150.00 ml/min
2/1/2023 10:55 AM	25:00	4.55 pH	20.39 °C	84.03 µS/cm	0.73 mg/L	2.97 NTU	101.6 mV	18.40 ft	150.00 ml/min
2/1/2023 11:00 AM	30:00	4.53 pH	20.44 °C	84.85 µS/cm	0.57 mg/L	3.97 NTU	95.3 mV	18.50 ft	150.00 ml/min
2/1/2023 11:05 AM	35:00	4.52 pH	20.40 °C	85.34 µS/cm	0.46 mg/L	3.73 NTU	92.8 mV	18.50 ft	150.00 ml/min

Samples

Sample ID:	Description:
------------	--------------

Low-Flow Test Report:

Test Date / Time: 2/1/2023 9:20:09 AM

Project: Plant McIntosh LF3

Operator Name: J. Berisford

Location Name: GWA-4 Well Diameter: 2 in Casing Type: PVC Screen Length: 10 ft Top of Screen: 19.16 ft Total Depth: 29.16 ft Initial Depth to Water: 16.97 ft	Pump Type: Peri. Pump Tubing Type: Poly Pump Intake From TOC: 24 ft Estimated Total Volume Pumped: 2.25 liter Flow Cell Volume: 90 ml Final Flow Rate: 50 ml/min Final Draw Down: 20.7 in	Instrument Used: Aqua TROLL 400 Serial Number: 965678
--	--	--

Test Notes:

Sunny, sample time-0950

Low-Flow Readings:

Date Time	Elapsed Time	pH	Temperature	Specific Conductivity	RDO Concentration	Turbidity	ORP	Depth to Water	Flow
		+/- 0.1	+/- 10	+/- 5 %	+/- 10 %	+/- 5	+/- 100	+/- 0.3	
2/1/2023 9:20 AM	00:00	7.44 pH	20.28 °C	1.32 µS/cm	9.09 mg/L	1.77 NTU	90.3 mV	16.97 ft	100.00 ml/min
2/1/2023 9:25 AM	05:00	4.80 pH	19.24 °C	33.88 µS/cm	5.46 mg/L	1.43 NTU	106.6 mV	17.70 ft	100.00 ml/min
2/1/2023 9:30 AM	10:00	4.76 pH	19.15 °C	33.95 µS/cm	5.33 mg/L	1.31 NTU	103.1 mV	18.10 ft	100.00 ml/min
2/1/2023 9:35 AM	15:00	4.77 pH	18.99 °C	33.71 µS/cm	5.35 mg/L	1.33 NTU	100.5 mV	18.40 ft	50.00 ml/min
2/1/2023 9:40 AM	20:00	4.77 pH	18.98 °C	33.84 µS/cm	5.31 mg/L	1.15 NTU	98.6 mV	18.60 ft	50.00 ml/min
2/1/2023 9:45 AM	25:00	4.77 pH	19.06 °C	33.59 µS/cm	5.29 mg/L	1.57 NTU	131.1 mV	18.70 ft	50.00 ml/min
2/1/2023 9:50 AM	30:00	4.77 pH	19.15 °C	33.47 µS/cm	5.22 mg/L	1.07 NTU	131.3 mV	18.70 ft	50.00 ml/min

Samples

Sample ID:	Description:
------------	--------------

Low-Flow Test Report:

Test Date / Time: 2/1/2023 9:10:22 AM

Project: Plant McIntosh LF3

Operator Name: Toby Johnson

Location Name: GWA-5 Well Diameter: 2 in Casing Type: PVC Screen Length: 10 ft Top of Screen: 18.46 ft Total Depth: 28.46 ft Initial Depth to Water: 15.96 ft	Pump Type: Peri Pump Tubing Type: Poly Pump Intake From TOC: 23 ft Estimated Total Volume Pumped: 16.35 liter Flow Cell Volume: 90 ml Final Flow Rate: 200 ml/min Final Draw Down: 132.48 in	Instrument Used: Aqua TROLL 400 Serial Number: 965658
--	---	--

Test Notes:

Sunny, purged dry, no sample collected

Low-Flow Readings:

Date Time	Elapsed Time	pH	Temperature	Specific Conductivity	RDO Concentration	Turbidity	ORP	Depth to Water	Flow
		+/- 0.1	+/- 2	+/- 5 %	+/- 10 %	+/- 10	+/- 100	+/- 5	
2/1/2023 9:10 AM	00:00	4.65 pH	19.82 °C	99.51 µS/cm	5.91 mg/L	24.40 NTU	120.0 mV	15.96 ft	125.00 ml/min
2/1/2023 9:15 AM	05:00	4.55 pH	19.52 °C	97.32 µS/cm	3.21 mg/L	29.10 NTU	101.8 mV	17.20 ft	125.00 ml/min
2/1/2023 9:20 AM	10:00	4.54 pH	19.41 °C	97.47 µS/cm	3.18 mg/L	19.00 NTU	112.5 mV	18.10 ft	100.00 ml/min
2/1/2023 9:25 AM	15:00	4.56 pH	19.38 °C	97.58 µS/cm	3.18 mg/L	19.30 NTU	116.6 mV	18.60 ft	100.00 ml/min
2/1/2023 9:30 AM	20:00	4.55 pH	19.41 °C	98.14 µS/cm	3.10 mg/L	19.50 NTU	108.5 mV	19.20 ft	100.00 ml/min
2/1/2023 9:35 AM	25:00	4.57 pH	19.37 °C	97.77 µS/cm	2.97 mg/L	19.40 NTU	123.4 mV	19.40 ft	80.00 ml/min
2/1/2023 9:40 AM	30:00	4.55 pH	19.33 °C	97.52 µS/cm	3.11 mg/L	20.00 NTU	126.6 mV	19.80 ft	80.00 ml/min
2/1/2023 9:45 AM	35:00	4.56 pH	19.40 °C	97.28 µS/cm	2.89 mg/L	21.40 NTU	129.3 mV	20.10 ft	80.00 ml/min
2/1/2023 9:50 AM	40:00	4.56 pH	19.41 °C	97.57 µS/cm	2.78 mg/L	20.70 NTU	115.6 mV	20.30 ft	60.00 ml/min
2/1/2023 9:55 AM	45:00	4.56 pH	19.59 °C	98.08 µS/cm	2.83 mg/L	19.40 NTU	133.9 mV	20.50 ft	60.00 ml/min
2/1/2023 10:00 AM	50:00	4.57 pH	19.69 °C	97.85 µS/cm	2.97 mg/L	18.00 NTU	117.8 mV	20.70 ft	60.00 ml/min
2/1/2023 10:05 AM	55:00	4.56 pH	19.77 °C	97.76 µS/cm	2.95 mg/L	18.20 NTU	118.9 mV	20.90 ft	60.00 ml/min
2/1/2023 10:10 AM	01:00:00	4.56 pH	19.90 °C	97.89 µS/cm	2.72 mg/L	17.20 NTU	119.3 mV	21.10 ft	60.00 ml/min
2/1/2023 10:15 AM	01:05:00	4.56 pH	19.94 °C	98.10 µS/cm	2.72 mg/L	16.10 NTU	141.4 mV	21.30 ft	60.00 ml/min
2/1/2023 10:20 AM	01:10:00	4.56 pH	20.10 °C	98.02 µS/cm	2.63 mg/L	14.00 NTU	122.7 mV	21.40 ft	60.00 ml/min

2/1/2023 10:25 AM	01:15:00	4.56 pH	20.08 °C	98.12 µS/cm	2.50 mg/L	12.90 NTU	121.7 mV	21.50 ft	60.00 ml/min
2/1/2023 10:30 AM	01:20:00	4.56 pH	20.30 °C	98.09 µS/cm	2.48 mg/L	11.80 NTU	123.2 mV	21.70 ft	60.00 ml/min
2/1/2023 10:35 AM	01:25:00	4.56 pH	20.61 °C	97.97 µS/cm	2.38 mg/L	12.50 NTU	122.5 mV	21.90 ft	60.00 ml/min
2/1/2023 10:40 AM	01:30:00	4.56 pH	20.85 °C	98.20 µS/cm	2.30 mg/L	12.10 NTU	145.5 mV	22.10 ft	60.00 ml/min
2/1/2023 10:45 AM	01:35:00	4.56 pH	20.85 °C	97.59 µS/cm	2.26 mg/L	13.80 NTU	122.1 mV	22.20 ft	60.00 ml/min
2/1/2023 10:50 AM	01:40:00	4.56 pH	21.02 °C	98.04 µS/cm	2.23 mg/L	14.30 NTU	122.7 mV	22.40 ft	60.00 ml/min
2/1/2023 10:55 AM	01:45:00	4.57 pH	21.06 °C	97.53 µS/cm	2.21 mg/L	15.90 NTU	123.1 mV	22.50 ft	60.00 ml/min
2/1/2023 11:00 AM	01:50:00	4.58 pH	21.32 °C	103.79 µS/cm	2.75 mg/L	16.60 NTU	124.4 mV	22.60 ft	60.00 ml/min
2/1/2023 11:05 AM	01:55:00	4.59 pH	21.91 °C	98.63 µS/cm	4.41 mg/L	18.10 NTU	128.7 mV	22.70 ft	60.00 ml/min
2/1/2023 11:10 AM	02:00:00	4.57 pH	22.20 °C	98.46 µS/cm	1.92 mg/L	13.90 NTU	127.8 mV	22.80 ft	60.00 ml/min
2/1/2023 11:15 AM	02:05:00	4.57 pH	21.68 °C	98.45 µS/cm	1.77 mg/L	14.20 NTU	129.8 mV	23.00 ft	60.00 ml/min
2/1/2023 11:20 AM	02:10:00	4.58 pH	21.01 °C	97.29 µS/cm	1.67 mg/L	12.60 NTU	130.4 mV	23.40 ft	200.00 ml/min
2/1/2023 11:25 AM	02:15:00	4.58 pH	20.66 °C	97.27 µS/cm	1.47 mg/L	16.10 NTU	134.2 mV	24.10 ft	200.00 ml/min
2/1/2023 11:30 AM	02:20:00	4.59 pH	20.75 °C	98.41 µS/cm	1.11 mg/L	18.40 NTU	136.1 mV	24.50 ft	200.00 ml/min
2/1/2023 11:35 AM	02:25:00	4.77 pH	21.99 °C	87.69 µS/cm	5.82 mg/L	54.00 NTU	148.1 mV	25.00 ft	200.00 ml/min
2/1/2023 11:40 AM	02:30:00	4.95 pH	21.30 °C	104.38 µS/cm	0.48 mg/L	125.00 NTU	143.3 mV	25.50 ft	200.00 ml/min
2/1/2023 11:45 AM	02:35:00	4.74 pH	20.86 °C	100.61 µS/cm	0.79 mg/L	83.40 NTU	139.5 mV	26.10 ft	200.00 ml/min
2/1/2023 11:50 AM	02:40:00	4.68 pH	20.68 °C	104.07 µS/cm	0.32 mg/L	53.30 NTU	138.6 mV	26.70 ft	200.00 ml/min
2/1/2023 11:55 AM	02:45:00	5.33 pH	21.36 °C	128.03 µS/cm	3.63 mg/L	65.90 NTU	136.9 mV	27.00 ft	200.00 ml/min

Samples

Sample ID:	Description:
------------	--------------

Low-Flow Test Report:

Test Date / Time: 2/2/2023 9:00:04 AM

Project: Plant McIntosh LF3

Operator Name: Toby Johnson

Location Name: GWA-5 Well Diameter: 2 in Casing Type: PVC Screen Length: 10 ft Top of Screen: 18.46 ft Total Depth: 28.46 ft Initial Depth to Water: 15.84 ft	Pump Type: Peri Pump Tubing Type: Poly Pump Intake From TOC: 23 ft Estimated Total Volume Pumped: 1.8 liter Flow Cell Volume: 90 ml Final Flow Rate: 60 ml/min Final Draw Down: 39.12 in	Instrument Used: Aqua TROLL 400 Serial Number: 965658
--	---	--

Test Notes:

Overcast, sampled at 0930

Low-Flow Readings:

Date Time	Elapsed Time	pH	Temperature	Specific Conductivity	RDO Concentration	Turbidity	ORP	Depth to Water	Flow
		+/- 0.1	+/- 2	+/- 5 %	+/- 10 %	+/- 10	+/- 100	+/- 5	
2/2/2023 9:00 AM	00:00	4.68 pH	16.87 °C	119.98 µS/cm	7.41 mg/L	14.70 NTU	137.2 mV	15.84 ft	60.00 ml/min
2/2/2023 9:05 AM	05:00	4.61 pH	17.72 °C	94.45 µS/cm	6.98 mg/L	12.30 NTU	153.5 mV	16.90 ft	60.00 ml/min
2/2/2023 9:10 AM	10:00	4.60 pH	17.92 °C	93.87 µS/cm	6.92 mg/L	13.10 NTU	169.5 mV	17.50 ft	60.00 ml/min
2/2/2023 9:15 AM	15:00	4.58 pH	17.90 °C	93.28 µS/cm	6.75 mg/L	11.70 NTU	181.1 mV	18.00 ft	60.00 ml/min
2/2/2023 9:20 AM	20:00	4.58 pH	17.72 °C	93.21 µS/cm	6.81 mg/L	12.50 NTU	188.2 mV	18.40 ft	60.00 ml/min
2/2/2023 9:25 AM	25:00	4.58 pH	17.76 °C	92.74 µS/cm	6.69 mg/L	11.30 NTU	192.4 mV	18.90 ft	60.00 ml/min
2/2/2023 9:30 AM	30:00	4.59 pH	17.72 °C	92.69 µS/cm	6.66 mg/L	10.90 NTU	195.2 mV	19.10 ft	60.00 ml/min

Samples

Sample ID:	Description:
------------	--------------

Low-Flow Test Report:

Test Date / Time: 1/31/2023 4:00:04 PM

Project: Plant McIntosh LF3

Operator Name: J. Berisford

Location Name: GWA-7A Well Diameter: 2 in Casing Type: PVC Screen Length: 10 ft Top of Screen: 36.94 ft Total Depth: 46.94 ft Initial Depth to Water: 24.13 ft	Pump Type: Peri. Pump Tubing Type: Poly Pump Intake From TOC: 37 ft Estimated Total Volume Pumped: 6 liter Flow Cell Volume: 90 ml Final Flow Rate: 150 ml/min Final Draw Down: 14 in	Instrument Used: Aqua TROLL 400 Serial Number: 965678
---	--	--

Test Notes:

Sunny, sample time-1640

Low-Flow Readings:

Date Time	Elapsed Time	pH	Temperature	Specific Conductivity	RDO Concentration	Turbidity	ORP	Depth to Water	Flow
		+/- 0.1	+/- 10	+/- 5 %	+/- 10 %	+/- 5	+/- 100	+/- 0.3	
1/31/2023 4:00 PM	00:00	5.04 pH	22.18 °C	0.00 µS/cm	8.51 mg/L	0.89 NTU	83.7 mV	24.13 ft	150.00 ml/min
1/31/2023 4:05 PM	05:00	5.48 pH	20.13 °C	100.78 µS/cm	0.45 mg/L	1.07 NTU	33.9 mV	24.70 ft	150.00 ml/min
1/31/2023 4:10 PM	10:00	5.48 pH	19.79 °C	101.06 µS/cm	0.27 mg/L	1.33 NTU	19.5 mV	25.00 ft	150.00 ml/min
1/31/2023 4:15 PM	15:00	5.48 pH	19.69 °C	101.87 µS/cm	0.22 mg/L	0.66 NTU	10.6 mV	25.20 ft	150.00 ml/min
1/31/2023 4:20 PM	20:00	5.44 pH	19.68 °C	104.34 µS/cm	0.18 mg/L	0.51 NTU	7.1 mV	25.20 ft	150.00 ml/min
1/31/2023 4:25 PM	25:00	5.24 pH	19.64 °C	122.07 µS/cm	0.16 mg/L	0.44 NTU	13.5 mV	25.20 ft	150.00 ml/min
1/31/2023 4:30 PM	30:00	5.05 pH	19.62 °C	139.69 µS/cm	0.14 mg/L	0.67 NTU	19.7 mV	25.30 ft	150.00 ml/min
1/31/2023 4:35 PM	35:00	5.01 pH	19.61 °C	141.63 µS/cm	0.13 mg/L	0.97 NTU	24.4 mV	25.30 ft	150.00 ml/min
1/31/2023 4:40 PM	40:00	5.00 pH	19.62 °C	142.68 µS/cm	0.13 mg/L	0.63 NTU	26.8 mV	25.30 ft	150.00 ml/min

Samples

Sample ID:	Description:
------------	--------------

Low-Flow Test Report:

Test Date / Time: 1/31/2023 2:50:03 PM

Project: Plant McIntosh LF3

Operator Name: J. Berisford

Location Name: GWC-1A Well Diameter: 2 in Casing Type: PVC Screen Length: 10 ft Top of Screen: 37.37 ft Total Depth: 47.37 ft Initial Depth to Water: 22.87 ft	Pump Type: Peri. Pump Tubing Type: Poly Pump Intake From TOC: 42 ft Estimated Total Volume Pumped: 4.5 liter Flow Cell Volume: 90 ml Final Flow Rate: 150 ml/min Final Draw Down: 11 in	Instrument Used: Aqua TROLL 400 Serial Number: 965678
---	--	--

Test Notes:

Sunny, sample time-1520, FD-05 here

Low-Flow Readings:

Date Time	Elapsed Time	pH	Temperature	Specific Conductivity	RDO Concentration	Turbidity	ORP	Depth to Water	Flow
		+/- 0.1	+/- 10	+/- 5 %	+/- 10 %	+/- 5	+/- 100	+/- 0.3	
1/31/2023 2:50 PM	00:00	4.48 pH	21.79 °C	59.96 µS/cm	3.45 mg/L	0.78 NTU	137.2 mV	22.87 ft	150.00 ml/min
1/31/2023 2:55 PM	05:00	4.40 pH	20.48 °C	61.88 µS/cm	0.67 mg/L	0.45 NTU	124.8 mV	23.30 ft	150.00 ml/min
1/31/2023 3:00 PM	10:00	4.42 pH	20.33 °C	62.35 µS/cm	0.60 mg/L	0.63 NTU	118.0 mV	23.50 ft	150.00 ml/min
1/31/2023 3:05 PM	15:00	4.42 pH	20.29 °C	62.71 µS/cm	0.56 mg/L	0.37 NTU	151.8 mV	23.70 ft	150.00 ml/min
1/31/2023 3:10 PM	20:00	4.42 pH	20.31 °C	62.97 µS/cm	0.54 mg/L	0.36 NTU	150.4 mV	23.80 ft	150.00 ml/min
1/31/2023 3:15 PM	25:00	4.43 pH	20.32 °C	63.11 µS/cm	0.52 mg/L	0.51 NTU	148.1 mV	23.80 ft	150.00 ml/min
1/31/2023 3:20 PM	30:00	4.43 pH	20.31 °C	63.17 µS/cm	0.50 mg/L	0.40 NTU	145.6 mV	23.80 ft	150.00 ml/min

Samples

Sample ID:	Description:
------------	--------------

Low-Flow Test Report:

Test Date / Time: 2/1/2023 11:35:37 AM

Project: Plant McIntosh LF3

Operator Name: J. Berisford

Location Name: GWC-2 Well Diameter: 2 in Casing Type: PVC Screen Length: 10 ft Top of Screen: 26.78 ft Total Depth: 36.79 ft Initial Depth to Water: 20.77 ft	Pump Type: Peri. Pump Tubing Type: Poly Pump Intake From TOC: 31 ft Estimated Total Volume Pumped: 6 liter Flow Cell Volume: 90 ml Final Flow Rate: 200 ml/min Final Draw Down: 1.5 in	Instrument Used: Aqua TROLL 400 Serial Number: 965678
--	---	--

Test Notes:

Sunny, sample time-1205, FD-06 here

Low-Flow Readings:

Date Time	Elapsed Time	pH	Temperature	Specific Conductivity	RDO Concentration	Turbidity	ORP	Depth to Water	Flow
		+/- 0.1	+/- 10	+/- 5 %	+/- 10 %	+/- 5	+/- 100	+/- 0.3	
2/1/2023 11:35 AM	00:00	5.04 pH	23.34 °C	0.00 µS/cm	8.24 mg/L	3.92 NTU	78.8 mV	20.77 ft	200.00 ml/min
2/1/2023 11:40 AM	05:00	4.90 pH	22.04 °C	34.50 µS/cm	0.64 mg/L	2.54 NTU	130.4 mV	20.80 ft	200.00 ml/min
2/1/2023 11:45 AM	10:00	4.86 pH	21.65 °C	34.52 µS/cm	0.23 mg/L	2.90 NTU	152.7 mV	20.90 ft	200.00 ml/min
2/1/2023 11:50 AM	15:00	4.82 pH	21.51 °C	34.23 µS/cm	0.18 mg/L	1.66 NTU	231.8 mV	20.90 ft	200.00 ml/min
2/1/2023 11:55 AM	20:00	4.82 pH	21.60 °C	34.34 µS/cm	0.15 mg/L	1.71 NTU	224.7 mV	20.90 ft	200.00 ml/min
2/1/2023 12:00 PM	25:00	4.82 pH	21.78 °C	34.03 µS/cm	0.14 mg/L	1.55 NTU	219.1 mV	20.90 ft	200.00 ml/min
2/1/2023 12:05 PM	30:00	4.83 pH	22.07 °C	33.60 µS/cm	0.12 mg/L	1.17 NTU	211.7 mV	20.90 ft	200.00 ml/min

Samples

Sample ID:	Description:
------------	--------------

Low-Flow Test Report:

Test Date / Time: 2/1/2023 12:35:13 PM

Project: Plant McIntosh LF3

Operator Name: J. Berisford

Location Name: GWC-4A Well Diameter: 2 in Casing Type: PVC Screen Length: 10 ft Top of Screen: 26.96 ft Total Depth: 36.96 ft Initial Depth to Water: 23.06 ft	Pump Type: Peri. Pump Tubing Type: Poly Pump Intake From TOC: 31 ft Estimated Total Volume Pumped: 4.5 liter Flow Cell Volume: 90 ml Final Flow Rate: 150 ml/min Final Draw Down: 6 in	Instrument Used: Aqua TROLL 400 Serial Number: 965678
---	---	--

Test Notes:

Sunny, sample time-1305, FB-10 here at 1250

Low-Flow Readings:

Date Time	Elapsed Time	pH	Temperature	Specific Conductivity	RDO Concentration	Turbidity	ORP	Depth to Water	Flow
		+/- 0.1	+/- 10	+/- 5 %	+/- 10 %	+/- 5	+/- 100	+/- 0.3	
2/1/2023 12:35 PM	00:00	5.84 pH	30.14 °C	0.00 µS/cm	7.34 mg/L	1.52 NTU	72.5 mV	23.06 ft	150.00 ml/min
2/1/2023 12:40 PM	05:00	4.66 pH	25.65 °C	22.03 µS/cm	0.82 mg/L	1.17 NTU	136.1 mV	23.40 ft	150.00 ml/min
2/1/2023 12:45 PM	10:00	4.64 pH	24.40 °C	22.25 µS/cm	0.29 mg/L	2.65 NTU	121.0 mV	23.60 ft	150.00 ml/min
2/1/2023 12:50 PM	15:00	4.63 pH	24.33 °C	22.14 µS/cm	0.22 mg/L	1.80 NTU	112.8 mV	23.60 ft	150.00 ml/min
2/1/2023 12:55 PM	20:00	4.61 pH	24.38 °C	21.77 µS/cm	0.20 mg/L	1.64 NTU	106.4 mV	23.60 ft	150.00 ml/min
2/1/2023 1:00 PM	25:00	4.61 pH	24.29 °C	21.40 µS/cm	0.18 mg/L	1.58 NTU	101.0 mV	23.60 ft	150.00 ml/min
2/1/2023 1:05 PM	30:00	4.60 pH	24.24 °C	21.41 µS/cm	0.17 mg/L	0.69 NTU	97.6 mV	23.60 ft	150.00 ml/min

Samples

Sample ID:	Description:
------------	--------------

Low-Flow Test Report:

Test Date / Time: 1/31/2023 1:40:42 PM

Project: Plant McIntosh LF3

Operator Name: J. Berisford

Location Name: GWC-5A Well Diameter: 2 in Casing Type: PVC Screen Length: 10 ft Top of Screen: 32.6 ft Total Depth: 42.6 ft Initial Depth to Water: 24.6 ft	Pump Type: Peri. Pump Tubing Type: Poly Pump Intake From TOC: 38 ft Estimated Total Volume Pumped: 4.5 liter Flow Cell Volume: 90 ml Final Flow Rate: 150 ml/min Final Draw Down: 4.8 in	Instrument Used: Aqua TROLL 400 Serial Number: 965678
--	---	--

Test Notes:

Sunny, sample time-1410

Low-Flow Readings:

Date Time	Elapsed Time	pH	Temperature	Specific Conductivity	RDO Concentration	Turbidity	ORP	Depth to Water	Flow
		+/- 0.1	+/- 10	+/- 5 %	+/- 10 %	+/- 5	+/- 100	+/- 0.3	
1/31/2023 1:40 PM	00:00	7.26 pH	24.08 °C	1.84 µS/cm	8.50 mg/L	2.07 NTU	176.8 mV	24.60 ft	150.00 ml/min
1/31/2023 1:45 PM	05:00	4.80 pH	21.29 °C	22.75 µS/cm	0.35 mg/L	1.16 NTU	112.0 mV	25.00 ft	150.00 ml/min
1/31/2023 1:50 PM	10:00	4.80 pH	20.84 °C	22.38 µS/cm	0.27 mg/L	0.97 NTU	110.0 mV	25.00 ft	150.00 ml/min
1/31/2023 1:55 PM	15:00	4.81 pH	20.66 °C	22.39 µS/cm	0.22 mg/L	1.11 NTU	108.7 mV	25.00 ft	150.00 ml/min
1/31/2023 2:00 PM	20:00	4.81 pH	20.74 °C	22.51 µS/cm	0.19 mg/L	1.08 NTU	106.2 mV	25.00 ft	150.00 ml/min
1/31/2023 2:05 PM	25:00	4.82 pH	20.74 °C	22.60 µS/cm	0.18 mg/L	0.92 NTU	104.5 mV	25.00 ft	150.00 ml/min
1/31/2023 2:10 PM	30:00	4.85 pH	20.62 °C	23.10 µS/cm	0.17 mg/L	0.92 NTU	131.2 mV	25.00 ft	150.00 ml/min

Samples

Sample ID:	Description:
------------	--------------

Low-Flow Test Report:

Test Date / Time: 1/31/2023 2:50:14 PM

Project: Plant McIntosh LF3

Operator Name: Toby Johnson

Location Name: GWC-6A Well Diameter: 2 in Casing Type: PVC Screen Length: 10 ft Top of Screen: 32.43 ft Total Depth: 42.43 ft Initial Depth to Water: 24.75 ft	Pump Type: Peri Pump Tubing Type: Poly Pump Intake From TOC: 37 ft Estimated Total Volume Pumped: 6 liter Flow Cell Volume: 90 ml Final Flow Rate: 200 ml/min Final Draw Down: 9 in	Instrument Used: Aqua TROLL 400 Serial Number: 965658
---	--	--

Test Notes:

Cloudy, sampled at 1520, MCI-LF3-FB-09 here at 1515

Low-Flow Readings:

Date Time	Elapsed Time	pH	Temperature	Specific Conductivity	RDO Concentration	Turbidity	ORP	Depth to Water	Flow
		+/- 0.1	+/- 2	+/- 5 %	+/- 10 %	+/- 10	+/- 100	+/- 5	
1/31/2023 2:50 PM	00:00	5.39 pH	21.15 °C	66.72 µS/cm	1.65 mg/L	1.46 NTU	95.4 mV	24.75 ft	200.00 ml/min
1/31/2023 2:55 PM	05:00	5.34 pH	20.33 °C	67.76 µS/cm	0.27 mg/L	1.36 NTU	94.4 mV	25.40 ft	200.00 ml/min
1/31/2023 3:00 PM	10:00	5.33 pH	20.26 °C	67.17 µS/cm	0.22 mg/L	1.21 NTU	93.8 mV	25.40 ft	200.00 ml/min
1/31/2023 3:05 PM	15:00	5.32 pH	20.25 °C	67.48 µS/cm	0.18 mg/L	1.48 NTU	98.3 mV	25.50 ft	200.00 ml/min
1/31/2023 3:10 PM	20:00	5.31 pH	20.29 °C	67.18 µS/cm	0.16 mg/L	1.55 NTU	98.1 mV	25.50 ft	200.00 ml/min
1/31/2023 3:15 PM	25:00	5.30 pH	20.30 °C	66.64 µS/cm	0.15 mg/L	1.00 NTU	98.4 mV	25.50 ft	200.00 ml/min
1/31/2023 3:20 PM	30:00	5.32 pH	20.30 °C	66.26 µS/cm	0.15 mg/L	1.95 NTU	97.9 mV	25.50 ft	200.00 ml/min

Samples

Sample ID:	Description:
------------	--------------



Daily Instrument Calibration Log

SITE: McIntosh LF3 / Grumman
 TECHNICIAN: D. Brinkel
 WATER LEVEL: Solent
 WATER LEVEL S/N: 267304

INSTRUMENT S/N: 965678
 INSTRUMENT TYPE: AquaTroll
 CAL. SOLUTIONS/S:
 ID: pH4 LOT #: 1612617 EXP. DATE: 11/23
 ID: pH7 LOT #: 266042 EXP. DATE: 7/24
 ID: pH10 LOT #: 161458 EXP. DATE: 6/23
 ID: Cal LOT #: 261206 EXP. DATE: 2/23
 ID: ORP LOT #: 266759 EXP. DATE: 4/23 Midday pH check
 ID: _____ LOT #: _____ EXP. DATE: _____ Must be less than .10
 ID: _____ LOT #: _____ EXP. DATE: _____ (6.90-7.10 range)

Recalibrate if not within range

Calibration Date: 1/30/23

RDO: 100% sat. = 99.4 Midday pH check
 PH: 4.00 = 4.00 7.00 = 7.04 10.00 = 10.05 7.0 = 7.01
 PH Recal (if needed): 4.00 = _____ 7.00 = _____ 10.00 = _____ 7.0 = _____ post recal check
 CONDUCTIVITY: 1413 = 1203
 ORP (mV) 240 = 237.4

Calibration Date: 1/31/23

RDO: 100% sat. = 102.9 Midday pH check
 PH: 4.00 = 4.04 7.00 = 7.11 10.00 = 10.05 7.0 = 7.02
 PH Recal (if needed): 4.00 = _____ 7.00 = _____ 10.00 = _____ 7.0 = _____ post recal check
 CONDUCTIVITY: 1413 = 1286
 ORP (mV) 246 = 235

Calibration Date: 2/1/2023 → LF3 / Grumman

RDO: 100% sat. = 101.3 Midday pH check
 PH: 4.00 = 4.00 7.00 = 7.04 10.00 = 9.96 7.0 = 7.02
 PH Recal (if needed): 4.00 = _____ 7.00 = _____ 10.00 = _____ 7.0 = _____ post recal check
 CONDUCTIVITY: 1413 = 1201
 ORP (mV) 240 = 237.5

Calibration Date:

RDO: 100% sat. = _____ Midday pH check
 PH: 4.00 = _____ 7.00 = _____ 10.00 = _____ 7.0 = _____
 PH Recal (if needed): 4.00 = _____ 7.00 = _____ 10.00 = _____ 7.0 = _____ post recal check
 CONDUCTIVITY: _____ = _____
 ORP (mV) _____ = _____

Calibration Date:

RDO: 100% sat. = _____ Midday pH check
 PH: 4.00 = _____ 7.00 = _____ 10.00 = _____ 7.0 = _____
 PH Recal (if needed): 4.00 = _____ 7.00 = _____ 10.00 = _____ 7.0 = _____ post recal check
 CONDUCTIVITY: _____ = _____
 ORP (mV) _____ = _____



Daily Instrument Calibration Log

SITE: McJannet LF3
TECHNICIAN: J. Bryan

INSTRUMENT S/N: 22080D000803
INSTRUMENT TYPE: HACH 2100Q
CAL. SOLUTION: 0 NTU - LOT # PJ 420 EXP. DATE: N/A
10 NTU - LOT # A 2075 EXP. DATE: 7/23
20 NTU - LOT # A 2200 EXP. DATE: 11/23

Calibration Date: 1/30

Calibration Solution	Instrument Reading	
0.0	0.19	NTU
10.0	10.1	NTU
20.0	20.1	NTU

Calibration Date: 1/31/23

Calibration Solution	Instrument Reading	
0.0	0.20	NTU
10.0	10.1	NTU
20.0	19.9	NTU

Calibration Date: 2/1/23

Calibration Solution	Instrument Reading	
0.0	0.18	NTU
10.0	9.18	NTU
20.0	19.3	NTU

Calibration Date:

Calibration Solution	Instrument Reading	
0.0		NTU
10.0		NTU
20.0		NTU

Calibration Date:

Calibration Solution	Instrument Reading	
0.0		NTU
10.0		NTU
20.0		NTU

Calibration Date:

Calibration Solution	Instrument Reading	
0.0		NTU
10.0		NTU
20.0		NTU



Daily Instrument Calibration Log

SITE: Plant McIntosh LF3/Grumman
 TECHNICIAN: Toby Johnson
 WATER LEVEL: Solinst
 WATER LEVEL S/N: 322101

INSTRUMENT S/N: 965658
 INSTRUMENT TYPE: AquaTroll
 CAL. SOLUTION/S: ID: Cond LOT #: 26E994 EXP. DATE: 5/23
 ID: pH 10 LOT #: 266018 EXP. DATE: 7/24
 ID: pH 7 LOT #: 266042 EXP. DATE: 7/24
 ID: pH 4 LOT #: 162617 EXP. DATE: 11/23
 ID: ORP LOT #: 261202 EXP. DATE: 6/23

Midday pH check
 Must be less than .10
 (6.90-7.10 range)
 Recalibrate if not within range

Calibration Date: 11/3/23
 RDO: 100% sat. = 108.35 Midday pH check
 PH: 4.00 = 4.09 7.00 = 7.14 10.00 = 10.20 7.0 = 6.99
 PH Recal (if needed): 4.00 = 7.00 = 10.00 = 7.0 = post recal check
 CONDUCTIVITY: 1413 = 1316.3
 ORP (mV) 240 = 227.5

Calibration Date: 2/1/23 → Grumman / LF3
 RDO: 100% sat. = 98.67 Midday pH check
 PH: 4.00 = 4.01 7.00 = 7.04 10.00 = 10.06 7.0 = 7.01
 PH Recal (if needed): 4.00 = 7.00 = 10.00 = 7.0 = post recal check
 CONDUCTIVITY: 1413 = 1269.5
 ORP (mV) 240 = 238.9

Calibration Date: 2/2/23 → Grumman
 RDO: 100% sat. = 101.73 Midday pH check
 PH: 4.00 = 4.00 7.00 = 7.03 10.00 = 10.06 7.0 = 7.00
 PH Recal (if needed): 4.00 = 7.00 = 10.00 = 7.0 = post recal check
 CONDUCTIVITY: 1413 = 1203.3
 ORP (mV) 240 = 239.7

Calibration Date:
 RDO: 100% sat. = Midday pH check
 PH: 4.00 = 7.00 = 10.00 = 7.0 =
 PH Recal (if needed): 4.00 = 7.00 = 10.00 = 7.0 = post recal check
 CONDUCTIVITY: =
 ORP (mV) =

Calibration Date:
 RDO: 100% sat. = Midday pH check
 PH: 4.00 = 7.00 = 10.00 = 7.0 =
 PH Recal (if needed): 4.00 = 7.00 = 10.00 = 7.0 = post recal check
 CONDUCTIVITY: =
 ORP (mV) =



Daily Instrument Calibration Log

SITE: Plant McIntosh LF3 / Grumman
 TECHNICIAN: Toby Johnson

INSTRUMENT S/N: 11090C012353
 INSTRUMENT TYPE: Hach 2100 Q
 CAL. SOLUTION: 0 NTU - LOT # P.I. Water EXP. DATE: New
 10 NTU - LOT # A2122 EXP. DATE: 8/23
 20 NTU - LOT # A2124 EXP. DATE: 8/23

Calibration Date: 1/31/23

Calibration Solution	Instrument Reading	
0.0	<u>0.27</u>	NTU
10.0	<u>10.3</u>	NTU
20.0	<u>21.0</u>	NTU

Calibration Date: 2/1/23 → Grumman/LF3

Calibration Solution	Instrument Reading	
0.0	<u>0.19</u>	NTU
10.0	<u>9.91</u>	NTU
20.0	<u>20.2</u>	NTU

Calibration Date: 2/2/23 → Grumman

Calibration Solution	Instrument Reading	
0.0	<u>0.17</u>	NTU
10.0	<u>9.97</u>	NTU
20.0	<u>19.7</u>	NTU

Calibration Date:

Calibration Solution	Instrument Reading	
0.0		NTU
10.0		NTU
20.0		NTU

Calibration Date:

Calibration Solution	Instrument Reading	
0.0		NTU
10.0		NTU
20.0		NTU

Calibration Date:

Calibration Solution	Instrument Reading	
0.0		NTU
10.0		NTU
20.0		NTU

**Plant McIntosh Landfill No. 3
January 2023 Well Inspection Form**



Permit No.: 051-008D(CCR)

1 - Location/Identification		GWA-1B	GWA-2B	GWA-3A	GWA-4	GWA-5	GWA-7A	GWC-1A	GWC-2	GWC-4A	GWC-5A	GWC-6A
a	Is the well visible and accessible?	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
b	Is the well properly identified with the correct well ID?	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
c	Does the well require protection from traffic?	No	No	No	No	No	No	No	No	No	No	No
d	Is the drainage around the well acceptable? (No standing water, nor is well located in obvious drainage flow path)	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes

NOTE: Form Derived from "Georgia EPD's Groundwater Monitoring Well Integrity Form".

**Plant McIntosh Landfill No. 3
January 2023 Well Inspection Form**



Permit No.: 051-008D(CCR)

2 - Protective Outer Casing

		GWA-1B	GWA-2B	GWA-3A	GWA-4	GWA-5	GWA-7A	GWC-1A	GWC-2	GWC-4A	GWC-5A	GWC-6A
a	Is the protective casing free from apparent damage?	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
b	Is the casing free of degradation or deterioration?	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
c	Does the casing have a functioning weep hole?	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
d	Is the annular space between casings filled with pea gravel or sand?	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
e	Is the well locked, and is the lock in good working condition?	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes

NOTE: Form Derived from "Georgia EPD's Groundwater Monitoring Well Integrity Form".

**Plant McIntosh Landfill No. 3
January 2023 Well Inspection Form**



Permit No.: 051-008D(CCR)

3 - Surface Pad

		GWA-1B	GWA-2B	GWA-3A	GWA-4	GWA-5	GWA-7A	GWC-1A	GWC-2	GWC-4A	GWC-5A	GWC-6A
a	Is the well pad in good condition? (Not cracked or broken)	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
b	Does the well pad provide adequate surface seal and stability to the well?	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
c	Is the well pad in complete contact with the protective casing?	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
d	Is the well pad in complete contact with the ground surface? (Not undermined by erosion, animal burrows, and does not move when stepped on)	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
e	Is the pad surface clean? (Not covered by soil or debris)	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes

NOTE: Form Derived from "Georgia EPD's Groundwater Monitoring Well Integrity Form".

**Plant McIntosh Landfill No. 3
January 2023 Well Inspection Form**



Permit No.: 051-008D(CCR)

4 - Internal Well Casing

		GWA-1B	GWA-2B	GWA-3A	GWA-4	GWA-5	GWA-7A	GWC-1A	GWC-2	GWC-4A	GWC-5A	GWC-6A
a	Does the well cap prevent entry of foreign material into the well?	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
b	Is the casing free of kinks or bends, or any obstruction from foreign objects (such as bailers) ?	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
c	Does the well have a venting hole near the top of casing?	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
d	Is the survey point clearly marked on the inner casing?	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
e	Is the depth of the well consistent with the original well log?	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
f	Does the PVC casing move easily when touched or can it be taken apart by hand due to lack of grout or use of slip couplings in construction?	No	No	No	No	No	No	No	No	No	No	No

NOTE: Form Derived from "Georgia EPD's Groundwater Monitoring Well Integrity Form".

**Plant McIntosh Landfill No. 3
January 2023 Well Inspection Form**



Permit No.: 051-008D(CCR)

5 - Sampling (Groundwater Monitoring Wells Only):

		GWA-1B	GWA-2B	GWA-3A	GWA-4	GWA-5	GWA-7A	GWC-1A	GWC-2	GWC-4A	GWC-5A	GWC-6A
a	Does the well recharge adequately when purged?	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
b	If dedicated sampling equipment is installed, is it in good condition?	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
c	Does the well require redevelopment due to slow recharge or turbidity > 10 NTUs?	No	No	No	No	No	No	No	No	No	No	No

Note: N/A - Not Applicable

6 - Based on your professional judgment, is the well construction / location appropriate to:

		GWA-1B	GWA-2B	GWA-3A	GWA-4	GWA-5	GWA-7A	GWC-1A	GWC-2	GWC-4A	GWC-5A	GWC-6A
	1) achieve the objectives of the facility Groundwater Monitoring Program, and 2) comply with the applicable regulatory requirements?	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes

7 - Corrective actions completed and Notes:

Staff: Jordan Berisford
Date: January 31, 2023

NOTE: Form Derived from "Georgia EPD's Groundwater Monitoring Well Integrity Form".

**Plant McIntosh Landfill No. 3
January 2023 Well Inspection Form**



Permit No.: 051-008D(CCR)

1 - Location/Identification		PZ-1	PZ-2	PZ-3	PZ-4	PZ-5
a	Is the well visible and accessible?	Yes	Yes	Yes	Yes	Yes
b	Is the well properly identified with the correct well ID?	Yes	Yes	Yes	Yes	Yes
c	Does the well require protection from traffic?	No	No	No	No	No
d	Is the drainage around the well acceptable? (No standing water, nor is well located in obvious drainage flow path)	Yes	Yes	Yes	Yes	Yes

NOTE: Form Derived from "Georgia EPD's Groundwater Monitoring Well Integrity Form".

**Plant McIntosh Landfill No. 3
January 2023 Well Inspection Form**



Permit No.: 051-008D(CCR)

2 - Protective Outer Casing		PZ-1	PZ-2	PZ-3	PZ-4	PZ-5
a	Is the protective casing free from apparent damage?	Yes	Yes	Yes	Yes	Yes
b	Is the casing free of degradation or deterioration?	Yes	Yes	Yes	Yes	Yes
c	Does the casing have a functioning weep hole?	Yes	Yes	Yes	Yes	Yes
d	Is the annular space between casings filled with pea gravel or sand?	Yes	Yes	Yes	Yes	Yes
e	Is the well locked, and is the lock in good working condition?	Yes	Yes	Yes	Yes	Yes

NOTE: Form Derived from "Georgia EPD's Groundwater Monitoring Well Integrity Form".

**Plant McIntosh Landfill No. 3
January 2023 Well Inspection Form**



Permit No.: 051-008D(CCR)

3 - Surface Pad		PZ-1	PZ-2	PZ-3	PZ-4	PZ-5
a	Is the well pad in good condition? (Not cracked or broken)	Yes	Yes	Yes	Yes	Yes
b	Does the well pad provide adequate surface seal and stability to the well?	Yes	Yes	Yes	Yes	Yes
c	Is the well pad in complete contact with the protective casing?	Yes	Yes	Yes	Yes	Yes
d	Is the well pad in complete contact with the ground surface? (Not undermined by erosion, animal burrows, and does not move when stepped on)	Yes	Yes	Yes	Yes	Yes
e	Is the pad surface clean? (Not covered by soil or debris)	Yes	Yes	Yes	Yes	Yes

NOTE: Form Derived from "Georgia EPD's Groundwater Monitoring Well Integrity Form".

**Plant McIntosh Landfill No. 3
January 2023 Well Inspection Form**



Permit No.: 051-008D(CCR)

4 - Internal Well Casing		PZ-1	PZ-2	PZ-3	PZ-4	PZ-5
a	Does the well cap prevent entry of foreign material into the well?	Yes	Yes	Yes	Yes	Yes
b	Is the casing free of kinks or bends, or any obstruction from foreign objects (such as bailers) ?	Yes	Yes	Yes	Yes	Yes
c	Does the well have a venting hole near the top of casing?	Yes	Yes	Yes	Yes	Yes
d	Is the survey point clearly marked on the inner casing?	Yes	Yes	Yes	Yes	Yes
e	Is the depth of the well consistent with the original well log?	Yes	Yes	Yes	Yes	Yes
f	Does the PVC casing move easily when touched or can it be taken apart by hand due to lack of grout or use of slip couplings in construction?	No	No	No	No	No

NOTE: Form Derived from "Georgia EPD's Groundwater Monitoring Well Integrity Form".

**Plant McIntosh Landfill No. 3
January 2023 Well Inspection Form**



Permit No.: 051-008D(CCR)

5 - Sampling (Groundwater Monitoring Wells Only):

		PZ-1	PZ-2	PZ-3	PZ-4	PZ-5
a	Does the well recharge adequately when purged?	N/A	N/A	N/A	N/A	N/A
b	If dedicated sampling equipment is installed, is it in good condition?	N/A	N/A	N/A	N/A	N/A
c	Does the well require redevelopment due to slow recharge or turbidity > 10 NTUs?	N/A	N/A	N/A	N/A	N/A

Note: N/A - Not Applicable

6 - Based on your professional judgment, is the well construction / location appropriate to:

	PZ-1	PZ-2	PZ-3	PZ-4	PZ-5
1) achieve the objectives of the facility Groundwater Monitoring Program, and 2) comply with the applicable regulatory requirements?	Yes	Yes	Yes	Yes	Yes

7 - Corrective actions completed and Notes:

Staff: Jordan Berisford
Date: January 31, 2023

NOTE: Form Derived from "Georgia EPD's Groundwater Monitoring Well Integrity Form".

APPENDIX B

*Laboratory Analytical and Field Sampling Reports
March 2023 Monitoring Event*

 **ANALYTICAL REPORT****PREPARED FOR**

Attn: Lauren Hartley
Southern Company
241 Ralph McGill Blvd SE
B10185
Atlanta, Georgia 30308

Generated 4/13/2023 4:04:05 PM

JOB DESCRIPTION

Plant McIntosh Landfill #3

JOB NUMBER

680-232820-1

Eurofins Savannah

Job Notes

The test results in this report meet NELAP requirements for parameters for which accreditation is required or available. Any exceptions to the NELAP requirements are noted. Results pertain only to samples listed in this report. This report may not be reproduced, except in full, without the written approval of the laboratory. Questions should be directed to the person who signed this report.

The test results in this report relate only to the samples as received by the laboratory and will meet all requirements of the methodology, with any exceptions noted. This report shall not be reproduced except in full, without the express written approval of the laboratory. All questions should be directed to the Eurofins Environment Testing Southeast, LLC Project Manager.

Authorization



Authorized for release by
David Fuller, Project Manager
David.Fuller@et.eurofinsus.com
(770)344-8986

Generated
4/13/2023 4:04:05 PM

Definitions/Glossary

Client: Southern Company
Project/Site: Plant McIntosh Landfill #3

Job ID: 680-232820-1

Qualifiers

HPLC/IC

Qualifier	Qualifier Description
*+	LCS and/or LCSD is outside acceptance limits, high biased.
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

Metals

Qualifier	Qualifier Description
4	MS, MSD: The analyte present in the original sample is greater than 4 times the matrix spike concentration; therefore, control limits are not applicable.
B	Compound was found in the blank and sample.
F1	MS and/or MSD recovery exceeds control limits.
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
α	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CFL	Contains Free Liquid
CFU	Colony Forming Unit
CNF	Contains No Free Liquid
DER	Duplicate Error Ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL	Detection Limit (DoD/DOE)
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision Level Concentration (Radiochemistry)
EDL	Estimated Detection Limit (Dioxin)
LOD	Limit of Detection (DoD/DOE)
LOQ	Limit of Quantitation (DoD/DOE)
MCL	EPA recommended "Maximum Contaminant Level"
MDA	Minimum Detectable Activity (Radiochemistry)
MDC	Minimum Detectable Concentration (Radiochemistry)
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
MPN	Most Probable Number
MQL	Method Quantitation Limit
NC	Not Calculated
ND	Not Detected at the reporting limit (or MDL or EDL if shown)
NEG	Negative / Absent
POS	Positive / Present
PQL	Practical Quantitation Limit
PRES	Presumptive
QC	Quality Control
RER	Relative Error Ratio (Radiochemistry)
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)
TNTC	Too Numerous To Count

Sample Summary

Client: Southern Company
Project/Site: Plant McIntosh Landfill #3

Job ID: 680-232820-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
680-232820-1	MCI-GWA-1B	Water	03/28/23 16:03	03/30/23 08:20
680-232820-2	MCI-GWC-1A	Water	03/29/23 11:40	03/30/23 08:20
680-232820-3	MCI-GWC-5A	Water	03/29/23 13:22	03/30/23 08:20
680-232820-4	MCI-GWC-6A	Water	03/29/23 09:50	03/30/23 08:20
680-232820-5	MCI-LF3-FD-05	Water	03/28/23 00:00	03/30/23 08:20
680-232820-6	MCI-LF3-FB-09	Water	03/29/23 10:00	03/30/23 08:20
680-232820-7	MCI-LF3-EB-11	Water	03/29/23 13:50	03/30/23 08:20

1

2

3

4

5

6

7

8

9

10

11

12

Case Narrative

Client: Southern Company
Project/Site: Plant McIntosh Landfill #3

Job ID: 680-232820-1

Job ID: 680-232820-1

Laboratory: Eurofins Savannah

Narrative

Job Narrative 680-232820-1

Receipt

The samples were received on 3/30/2023 8:20 AM. Unless otherwise noted below, the samples arrived in good condition, and, where required, properly preserved and on ice. The temperature of the cooler at receipt time was 0.5°C

HPLC/IC

Method 300_ORGFM_28D: The laboratory control sample (LCS) associated with analytical batch 680-772973 was outside acceptance criteria. The data have been reported. The batch matrix spike/matrix spike duplicate (MS/MSD) was within acceptance limits and may be used to evaluate matrix performance.

Method 300_ORGFM_28D: The laboratory control sample (LCS) and / or laboratory control sample duplicate (LCSD) for analytical batch 680-772973 recovered outside control limits for the following analytes: Fluoride. These analytes were biased high in the LCS and were not detected in the associated samples; therefore, the data have been reported.

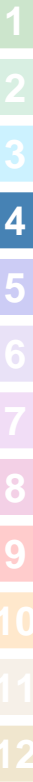
No additional analytical or quality issues were noted, other than those described above or in the Definitions/ Glossary page.

Metals

No additional analytical or quality issues were noted, other than those described above or in the Definitions/ Glossary page.

General Chemistry

No additional analytical or quality issues were noted, other than those described above or in the Definitions/ Glossary page.



Client Sample Results

Client: Southern Company
Project/Site: Plant McIntosh Landfill #3

Job ID: 680-232820-1

Client Sample ID: MCI-GWA-1B

Lab Sample ID: 680-232820-1

Date Collected: 03/28/23 16:03

Matrix: Water

Date Received: 03/30/23 08:20

Method: MCAWW 300.0-1993 R2.1 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	10		1.0	0.20	mg/L			04/13/23 03:36	1
Fluoride	0.040	J *+	0.10	0.040	mg/L			04/13/23 03:36	1
Sulfate	2.0		1.0	0.40	mg/L			04/13/23 03:36	1

Method: SW846 6020B - Metals (ICP/MS) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Barium	0.018		0.010	0.00089	mg/L		03/31/23 06:56	03/31/23 16:41	1
Beryllium	<0.00020		0.0025	0.00020	mg/L		03/31/23 06:56	03/31/23 16:41	1
Boron	0.072	J B	0.080	0.022	mg/L		03/31/23 06:56	04/03/23 12:29	1
Calcium	3.0		0.50	0.14	mg/L		03/31/23 06:56	03/31/23 16:41	1
Chromium	<0.0012		0.0020	0.0012	mg/L		03/31/23 06:56	03/31/23 16:41	1
Cobalt	0.00032	J	0.0025	0.00022	mg/L		03/31/23 06:56	03/31/23 16:41	1
Copper	<0.0011		0.0020	0.0011	mg/L		03/31/23 06:56	03/31/23 16:41	1
Lead	<0.00021		0.0010	0.00021	mg/L		03/31/23 06:56	03/31/23 16:41	1
Vanadium	<0.00063		0.0020	0.00063	mg/L		03/31/23 06:56	03/31/23 16:41	1
Zinc	0.0096		0.0050	0.0028	mg/L		03/31/23 06:56	03/31/23 16:41	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids (SM 2540C-2011)	48		10	10	mg/L			04/04/23 11:12	1

Method: EPA Field Sampling - Field Sampling

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Field pH	5.73				SU			03/28/23 16:03	1

Client Sample ID: MCI-GWC-1A

Lab Sample ID: 680-232820-2

Date Collected: 03/29/23 11:40

Matrix: Water

Date Received: 03/30/23 08:20

Method: MCAWW 300.0-1993 R2.1 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	14		1.0	0.20	mg/L			04/13/23 04:15	1
Fluoride	0.066	J *+	0.10	0.040	mg/L			04/13/23 04:15	1
Sulfate	<0.40		1.0	0.40	mg/L			04/13/23 04:15	1

Method: SW846 6020B - Metals (ICP/MS) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Barium	0.27		0.010	0.00089	mg/L		03/31/23 06:56	03/31/23 16:45	1
Beryllium	0.00046	J	0.0025	0.00020	mg/L		03/31/23 06:56	03/31/23 16:45	1
Boron	0.063	J B	0.080	0.022	mg/L		03/31/23 06:56	04/03/23 12:33	1
Calcium	2.6		0.50	0.14	mg/L		03/31/23 06:56	03/31/23 16:45	1
Chromium	0.0016	J	0.0020	0.0012	mg/L		03/31/23 06:56	03/31/23 16:45	1
Cobalt	0.0051		0.0025	0.00022	mg/L		03/31/23 06:56	03/31/23 16:45	1
Copper	0.0011	J	0.0020	0.0011	mg/L		03/31/23 06:56	03/31/23 16:45	1
Lead	<0.00021		0.0010	0.00021	mg/L		03/31/23 06:56	03/31/23 16:45	1
Vanadium	<0.00063		0.0020	0.00063	mg/L		03/31/23 06:56	03/31/23 16:45	1
Zinc	0.020		0.0050	0.0028	mg/L		03/31/23 06:56	03/31/23 16:45	1

Client Sample Results

Client: Southern Company
 Project/Site: Plant McIntosh Landfill #3

Job ID: 680-232820-1

Client Sample ID: MCI-GWC-1A

Lab Sample ID: 680-232820-2

Date Collected: 03/29/23 11:40

Matrix: Water

Date Received: 03/30/23 08:20

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids (SM 2540C-2011)	63		10	10	mg/L			04/04/23 11:12	1

Method: EPA Field Sampling - Field Sampling

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Field pH	4.38				SU			03/29/23 11:40	1

Client Sample ID: MCI-GWC-5A

Lab Sample ID: 680-232820-3

Date Collected: 03/29/23 13:22

Matrix: Water

Date Received: 03/30/23 08:20

Method: MCAWW 300.0-1993 R2.1 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	5.0		1.0	0.20	mg/L			04/13/23 04:28	1
Fluoride	<0.040	*+	0.10	0.040	mg/L			04/13/23 04:28	1
Sulfate	<0.40		1.0	0.40	mg/L			04/13/23 04:28	1

Method: SW846 6020B - Metals (ICP/MS) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Barium	0.071		0.010	0.00089	mg/L		03/31/23 06:56	03/31/23 16:33	1
Beryllium	0.00024	J	0.0025	0.00020	mg/L		03/31/23 06:56	03/31/23 16:33	1
Boron	0.024	J B	0.080	0.022	mg/L		03/31/23 06:56	04/03/23 12:20	1
Calcium	0.83		0.50	0.14	mg/L		03/31/23 06:56	03/31/23 16:33	1
Chromium	<0.0012		0.0020	0.0012	mg/L		03/31/23 06:56	03/31/23 16:33	1
Cobalt	0.0021	J	0.0025	0.00022	mg/L		03/31/23 06:56	03/31/23 16:33	1
Copper	<0.0011		0.0020	0.0011	mg/L		03/31/23 06:56	03/31/23 16:33	1
Lead	<0.00021		0.0010	0.00021	mg/L		03/31/23 06:56	03/31/23 16:33	1
Vanadium	<0.00063		0.0020	0.00063	mg/L		03/31/23 06:56	03/31/23 16:33	1
Zinc	0.010		0.0050	0.0028	mg/L		03/31/23 06:56	03/31/23 16:33	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids (SM 2540C-2011)	26		10	10	mg/L			04/04/23 11:12	1

Method: EPA Field Sampling - Field Sampling

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Field pH	4.69				SU			03/29/23 13:22	1

Client Sample ID: MCI-GWC-6A

Lab Sample ID: 680-232820-4

Date Collected: 03/29/23 09:50

Matrix: Water

Date Received: 03/30/23 08:20

Method: MCAWW 300.0-1993 R2.1 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	11		1.0	0.20	mg/L			04/13/23 04:42	1
Fluoride	<0.040	*+	0.10	0.040	mg/L			04/13/23 04:42	1
Sulfate	4.0		1.0	0.40	mg/L			04/13/23 04:42	1

Method: SW846 6020B - Metals (ICP/MS) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Barium	0.082		0.010	0.00089	mg/L		03/31/23 06:56	03/31/23 16:29	1

Eurofins Savannah

Client Sample Results

Client: Southern Company
Project/Site: Plant McIntosh Landfill #3

Job ID: 680-232820-1

Client Sample ID: MCI-GWC-6A

Lab Sample ID: 680-232820-4

Date Collected: 03/29/23 09:50

Matrix: Water

Date Received: 03/30/23 08:20

Method: SW846 6020B - Metals (ICP/MS) - Total Recoverable (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Beryllium	0.00029	J	0.0025	0.00020	mg/L		03/31/23 06:56	03/31/23 16:29	1
Boron	0.046	J B	0.080	0.022	mg/L		03/31/23 06:56	04/03/23 12:16	1
Calcium	3.0		0.50	0.14	mg/L		03/31/23 06:56	03/31/23 16:29	1
Chromium	0.0014	J	0.0020	0.0012	mg/L		03/31/23 06:56	03/31/23 16:29	1
Cobalt	0.0010	J	0.0025	0.00022	mg/L		03/31/23 06:56	03/31/23 16:29	1
Copper	<0.0011		0.0020	0.0011	mg/L		03/31/23 06:56	03/31/23 16:29	1
Lead	<0.00021		0.0010	0.00021	mg/L		03/31/23 06:56	03/31/23 16:29	1
Vanadium	<0.00063		0.0020	0.00063	mg/L		03/31/23 06:56	03/31/23 16:29	1
Zinc	0.0056		0.0050	0.0028	mg/L		03/31/23 06:56	03/31/23 16:29	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids (SM 2540C-2011)	69		10	10	mg/L			04/04/23 11:12	1

Method: EPA Field Sampling - Field Sampling

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Field pH	5.18				SU			03/29/23 09:50	1

Client Sample ID: MCI-LF3-FD-05

Lab Sample ID: 680-232820-5

Date Collected: 03/28/23 00:00

Matrix: Water

Date Received: 03/30/23 08:20

Method: MCAWW 300.0-1993 R2.1 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	10		1.0	0.20	mg/L			04/13/23 04:55	1
Fluoride	0.041	J *+	0.10	0.040	mg/L			04/13/23 04:55	1
Sulfate	2.3		1.0	0.40	mg/L			04/13/23 04:55	1

Method: SW846 6020B - Metals (ICP/MS) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Barium	0.018		0.010	0.00089	mg/L		03/31/23 06:56	03/31/23 16:57	1
Beryllium	<0.00020		0.0025	0.00020	mg/L		03/31/23 06:56	03/31/23 16:57	1
Boron	0.071	J B	0.080	0.022	mg/L		03/31/23 06:56	04/03/23 12:37	1
Calcium	3.1		0.50	0.14	mg/L		03/31/23 06:56	03/31/23 16:57	1
Chromium	<0.0012		0.0020	0.0012	mg/L		03/31/23 06:56	03/31/23 16:57	1
Cobalt	0.00033	J	0.0025	0.00022	mg/L		03/31/23 06:56	03/31/23 16:57	1
Copper	<0.0011		0.0020	0.0011	mg/L		03/31/23 06:56	03/31/23 16:57	1
Lead	<0.00021		0.0010	0.00021	mg/L		03/31/23 06:56	03/31/23 16:57	1
Vanadium	<0.00063		0.0020	0.00063	mg/L		03/31/23 06:56	03/31/23 16:57	1
Zinc	0.011		0.0050	0.0028	mg/L		03/31/23 06:56	03/31/23 16:57	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids (SM 2540C-2011)	47		10	10	mg/L			04/04/23 11:12	1

Client Sample Results

Client: Southern Company
Project/Site: Plant McIntosh Landfill #3

Job ID: 680-232820-1

Client Sample ID: MCI-LF3-FB-09

Lab Sample ID: 680-232820-6

Date Collected: 03/29/23 10:00

Matrix: Water

Date Received: 03/30/23 08:20

Method: MCAWW 300.0-1993 R2.1 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	<0.20		1.0	0.20	mg/L			04/13/23 05:08	1
Fluoride	<0.040	*+	0.10	0.040	mg/L			04/13/23 05:08	1
Sulfate	<0.40		1.0	0.40	mg/L			04/13/23 05:08	1

Method: SW846 6020B - Metals (ICP/MS) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Barium	<0.00089		0.010	0.00089	mg/L		03/31/23 06:56	03/31/23 17:01	1
Beryllium	<0.00020		0.0025	0.00020	mg/L		03/31/23 06:56	03/31/23 17:01	1
Boron	<0.022		0.080	0.022	mg/L		03/31/23 06:56	04/03/23 12:41	1
Calcium	<0.14		0.50	0.14	mg/L		03/31/23 06:56	03/31/23 17:01	1
Chromium	<0.0012		0.0020	0.0012	mg/L		03/31/23 06:56	03/31/23 17:01	1
Cobalt	<0.00022		0.0025	0.00022	mg/L		03/31/23 06:56	03/31/23 17:01	1
Copper	<0.0011		0.0020	0.0011	mg/L		03/31/23 06:56	03/31/23 17:01	1
Lead	<0.00021		0.0010	0.00021	mg/L		03/31/23 06:56	03/31/23 17:01	1
Vanadium	<0.00063		0.0020	0.00063	mg/L		03/31/23 06:56	03/31/23 17:01	1
Zinc	<0.0028		0.0050	0.0028	mg/L		03/31/23 06:56	03/31/23 17:01	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids (SM 2540C-2011)	<10		10	10	mg/L			04/04/23 11:12	1

Client Sample ID: MCI-LF3-EB-11

Lab Sample ID: 680-232820-7

Date Collected: 03/29/23 13:50

Matrix: Water

Date Received: 03/30/23 08:20

Method: MCAWW 300.0-1993 R2.1 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	<0.20		1.0	0.20	mg/L			04/13/23 05:21	1
Fluoride	<0.040	*+	0.10	0.040	mg/L			04/13/23 05:21	1
Sulfate	<0.40		1.0	0.40	mg/L			04/13/23 05:21	1

Method: SW846 6020B - Metals (ICP/MS) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Barium	<0.00089		0.010	0.00089	mg/L		03/31/23 06:56	03/31/23 16:37	1
Beryllium	<0.00020		0.0025	0.00020	mg/L		03/31/23 06:56	03/31/23 16:37	1
Boron	<0.022		0.080	0.022	mg/L		03/31/23 06:56	04/03/23 12:25	1
Calcium	<0.14		0.50	0.14	mg/L		03/31/23 06:56	03/31/23 16:37	1
Chromium	<0.0012		0.0020	0.0012	mg/L		03/31/23 06:56	03/31/23 16:37	1
Cobalt	<0.00022		0.0025	0.00022	mg/L		03/31/23 06:56	03/31/23 16:37	1
Copper	<0.0011		0.0020	0.0011	mg/L		03/31/23 06:56	03/31/23 16:37	1
Lead	<0.00021		0.0010	0.00021	mg/L		03/31/23 06:56	03/31/23 16:37	1
Vanadium	<0.00063		0.0020	0.00063	mg/L		03/31/23 06:56	03/31/23 16:37	1
Zinc	<0.0028		0.0050	0.0028	mg/L		03/31/23 06:56	03/31/23 16:37	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids (SM 2540C-2011)	<10		10	10	mg/L			04/04/23 11:12	1

QC Sample Results

Client: Southern Company
Project/Site: Plant McIntosh Landfill #3

Job ID: 680-232820-1

Method: 300.0-1993 R2.1 - Anions, Ion Chromatography

Lab Sample ID: MB 680-772973/72
Matrix: Water
Analysis Batch: 772973

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	<0.20		1.0	0.20	mg/L			04/13/23 02:56	1
Fluoride	<0.040		0.10	0.040	mg/L			04/13/23 02:56	1
Sulfate	<0.40		1.0	0.40	mg/L			04/13/23 02:56	1

Lab Sample ID: LCS 680-772973/95
Matrix: Water
Analysis Batch: 772973

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Chloride	10.0	10.8		mg/L		108	90 - 110
Fluoride	2.00	2.29	*+	mg/L		115	90 - 110
Sulfate	10.0	10.4		mg/L		104	90 - 110

Lab Sample ID: LCSD 680-772973/94
Matrix: Water
Analysis Batch: 772973

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chloride	10.0	10.8		mg/L		108	90 - 110	0	15
Fluoride	2.00	2.30	*+	mg/L		115	90 - 110	0	15
Sulfate	10.0	10.4		mg/L		104	90 - 110	0	15

Lab Sample ID: 680-232820-1 MS
Matrix: Water
Analysis Batch: 772973

Client Sample ID: MCI-GWA-1B
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Chloride	10		10.0	21.0		mg/L		109	80 - 120
Fluoride	0.040	J *+	2.00	2.34		mg/L		115	80 - 120
Sulfate	2.0		10.0	12.9		mg/L		109	80 - 120

Lab Sample ID: 680-232820-1 MSD
Matrix: Water
Analysis Batch: 772973

Client Sample ID: MCI-GWA-1B
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chloride	10		10.0	20.9		mg/L		108	80 - 120	1	15
Fluoride	0.040	J *+	2.00	2.31		mg/L		114	80 - 120	1	15
Sulfate	2.0		10.0	12.8		mg/L		108	80 - 120	1	15

Method: 6020B - Metals (ICP/MS)

Lab Sample ID: MB 680-770680/1-A
Matrix: Water
Analysis Batch: 770992

Client Sample ID: Method Blank
Prep Type: Total Recoverable
Prep Batch: 770680

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Barium	<0.00089		0.010	0.00089	mg/L		03/31/23 06:56	03/31/23 16:08	1
Beryllium	<0.00020		0.0025	0.00020	mg/L		03/31/23 06:56	03/31/23 16:08	1
Calcium	<0.14		0.50	0.14	mg/L		03/31/23 06:56	03/31/23 16:08	1

Eurofins Savannah

QC Sample Results

Client: Southern Company
Project/Site: Plant McIntosh Landfill #3

Job ID: 680-232820-1

Method: 6020B - Metals (ICP/MS) (Continued)

Lab Sample ID: MB 680-770680/1-A
Matrix: Water
Analysis Batch: 770992

Client Sample ID: Method Blank
Prep Type: Total Recoverable
Prep Batch: 770680

Analyte	MB	MB	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
Chromium	<0.0012		0.0020	0.0012	mg/L		03/31/23 06:56	03/31/23 16:08	1
Cobalt	<0.00022		0.0025	0.00022	mg/L		03/31/23 06:56	03/31/23 16:08	1
Copper	<0.0011		0.0020	0.0011	mg/L		03/31/23 06:56	03/31/23 16:08	1
Lead	<0.00021		0.0010	0.00021	mg/L		03/31/23 06:56	03/31/23 16:08	1
Vanadium	<0.00063		0.0020	0.00063	mg/L		03/31/23 06:56	03/31/23 16:08	1
Zinc	<0.0028		0.0050	0.0028	mg/L		03/31/23 06:56	03/31/23 16:08	1

Lab Sample ID: MB 680-770680/1-A
Matrix: Water
Analysis Batch: 771193

Client Sample ID: Method Blank
Prep Type: Total Recoverable
Prep Batch: 770680

Analyte	MB	MB	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
Boron	0.0222	J	0.080	0.022	mg/L		03/31/23 06:56	04/03/23 11:48	1

Lab Sample ID: LCS 680-770680/2-A
Matrix: Water
Analysis Batch: 770992

Client Sample ID: Lab Control Sample
Prep Type: Total Recoverable
Prep Batch: 770680

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Barium	0.100	0.104		mg/L		104	80 - 120
Beryllium	0.0500	0.0521		mg/L		104	80 - 120
Calcium	5.00	5.53		mg/L		111	80 - 120
Chromium	0.100	0.114		mg/L		114	80 - 120
Cobalt	0.0500	0.0567		mg/L		113	80 - 120
Copper	0.100	0.110		mg/L		110	80 - 120
Lead	0.505	0.555		mg/L		110	80 - 120
Vanadium	0.100	0.113		mg/L		113	80 - 120
Zinc	0.100	0.112		mg/L		112	80 - 120

Lab Sample ID: LCS 680-770680/2-A
Matrix: Water
Analysis Batch: 771193

Client Sample ID: Lab Control Sample
Prep Type: Total Recoverable
Prep Batch: 770680

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Boron	0.200	0.209		mg/L		105	80 - 120

Lab Sample ID: 680-232781-E-1-E MS
Matrix: Water
Analysis Batch: 770992

Client Sample ID: Matrix Spike
Prep Type: Total Recoverable
Prep Batch: 770680

Analyte	Sample	Sample	Spike Added	MS	MS	Unit	D	%Rec	%Rec Limits
	Result	Qualifier		Result	Qualifier				
Barium	0.025		0.100	0.147		mg/L		122	75 - 125
Beryllium	<0.00020		0.0500	0.0589		mg/L		118	75 - 125
Calcium	47		5.00	58.2	4	mg/L		226	75 - 125
Chromium	0.0013	J F1	0.100	0.131	F1	mg/L		130	75 - 125
Cobalt	<0.00022	F1	0.0500	0.0654	F1	mg/L		131	75 - 125
Copper	0.0015	J	0.100	0.127		mg/L		125	75 - 125
Lead	0.0019		0.505	0.625		mg/L		124	75 - 125
Vanadium	0.0039	F1	0.100	0.134	F1	mg/L		130	75 - 125
Zinc	0.0038	J F1	0.100	0.130	F1	mg/L		126	75 - 125

Eurofins Savannah

QC Sample Results

Client: Southern Company
Project/Site: Plant McIntosh Landfill #3

Job ID: 680-232820-1

Method: 6020B - Metals (ICP/MS)

Lab Sample ID: 680-232781-E-1-E MS
Matrix: Water
Analysis Batch: 771193

Client Sample ID: Matrix Spike
Prep Type: Total Recoverable
Prep Batch: 770680

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Boron	0.031	J B	0.200	0.229	B	mg/L		99	75 - 125

Lab Sample ID: 680-232781-E-1-F MSD
Matrix: Water
Analysis Batch: 770992

Client Sample ID: Matrix Spike Duplicate
Prep Type: Total Recoverable
Prep Batch: 770680

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Barium	0.025		0.100	0.121		mg/L		96	75 - 125	19	20
Beryllium	<0.00020		0.0500	0.0518		mg/L		104	75 - 125	13	20
Calcium	47		5.00	48.4	4	mg/L		30	75 - 125	18	20
Chromium	0.0013	J F1	0.100	0.109		mg/L		108	75 - 125	19	20
Cobalt	<0.00022	F1	0.0500	0.0545		mg/L		109	75 - 125	18	20
Copper	0.0015	J	0.100	0.107		mg/L		105	75 - 125	17	20
Lead	0.0019		0.505	0.528		mg/L		104	75 - 125	17	20
Vanadium	0.0039	F1	0.100	0.111		mg/L		107	75 - 125	19	20
Zinc	0.0038	J F1	0.100	0.111		mg/L		108	75 - 125	15	20

Lab Sample ID: 680-232781-E-1-F MSD
Matrix: Water
Analysis Batch: 771193

Client Sample ID: Matrix Spike Duplicate
Prep Type: Total Recoverable
Prep Batch: 770680

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Boron	0.031	J B	0.200	0.231	B	mg/L		100	75 - 125	1	20

Method: 2540C-2011 - Total Dissolved Solids (Dried at 180 °C)

Lab Sample ID: MB 680-771295/1
Matrix: Water
Analysis Batch: 771295

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	<10		10	10	mg/L			04/04/23 11:12	1

Lab Sample ID: LCS 680-771295/2
Matrix: Water
Analysis Batch: 771295

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Total Dissolved Solids	2410	2370		mg/L		98	80 - 120

Lab Sample ID: LCSD 680-771295/3
Matrix: Water
Analysis Batch: 771295

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Total Dissolved Solids	2410	2360		mg/L		98	80 - 120	0	25

QC Sample Results

Client: Southern Company
Project/Site: Plant McIntosh Landfill #3

Job ID: 680-232820-1

Method: 2540C-2011 - Total Dissolved Solids (Dried at 180 °C) (Continued)

Lab Sample ID: 680-232751-B-1 DU
Matrix: Water
Analysis Batch: 771295

Client Sample ID: Duplicate
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	Limit
Total Dissolved Solids	310		318		mg/L		2	5

- 1
- 2
- 3
- 4
- 5
- 6
- 7
- 8
- 9
- 10
- 11
- 12

QC Association Summary

Client: Southern Company
 Project/Site: Plant McIntosh Landfill #3

Job ID: 680-232820-1

HPLC/IC

Analysis Batch: 772973

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-232820-1	MCI-GWA-1B	Total/NA	Water	300.0-1993 R2.1	
680-232820-2	MCI-GWC-1A	Total/NA	Water	300.0-1993 R2.1	
680-232820-3	MCI-GWC-5A	Total/NA	Water	300.0-1993 R2.1	
680-232820-4	MCI-GWC-6A	Total/NA	Water	300.0-1993 R2.1	
680-232820-5	MCI-LF3-FD-05	Total/NA	Water	300.0-1993 R2.1	
680-232820-6	MCI-LF3-FB-09	Total/NA	Water	300.0-1993 R2.1	
680-232820-7	MCI-LF3-EB-11	Total/NA	Water	300.0-1993 R2.1	
MB 680-772973/72	Method Blank	Total/NA	Water	300.0-1993 R2.1	
LCS 680-772973/95	Lab Control Sample	Total/NA	Water	300.0-1993 R2.1	
LCSD 680-772973/94	Lab Control Sample Dup	Total/NA	Water	300.0-1993 R2.1	
680-232820-1 MS	MCI-GWA-1B	Total/NA	Water	300.0-1993 R2.1	
680-232820-1 MSD	MCI-GWA-1B	Total/NA	Water	300.0-1993 R2.1	

Metals

Prep Batch: 770680

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-232820-1	MCI-GWA-1B	Total Recoverable	Water	3005A	
680-232820-2	MCI-GWC-1A	Total Recoverable	Water	3005A	
680-232820-3	MCI-GWC-5A	Total Recoverable	Water	3005A	
680-232820-4	MCI-GWC-6A	Total Recoverable	Water	3005A	
680-232820-5	MCI-LF3-FD-05	Total Recoverable	Water	3005A	
680-232820-6	MCI-LF3-FB-09	Total Recoverable	Water	3005A	
680-232820-7	MCI-LF3-EB-11	Total Recoverable	Water	3005A	
MB 680-770680/1-A	Method Blank	Total Recoverable	Water	3005A	
LCS 680-770680/2-A	Lab Control Sample	Total Recoverable	Water	3005A	
680-232781-E-1-E MS	Matrix Spike	Total Recoverable	Water	3005A	
680-232781-E-1-F MSD	Matrix Spike Duplicate	Total Recoverable	Water	3005A	

Analysis Batch: 770992

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-232820-1	MCI-GWA-1B	Total Recoverable	Water	6020B	770680
680-232820-2	MCI-GWC-1A	Total Recoverable	Water	6020B	770680
680-232820-3	MCI-GWC-5A	Total Recoverable	Water	6020B	770680
680-232820-4	MCI-GWC-6A	Total Recoverable	Water	6020B	770680
680-232820-5	MCI-LF3-FD-05	Total Recoverable	Water	6020B	770680
680-232820-6	MCI-LF3-FB-09	Total Recoverable	Water	6020B	770680
680-232820-7	MCI-LF3-EB-11	Total Recoverable	Water	6020B	770680
MB 680-770680/1-A	Method Blank	Total Recoverable	Water	6020B	770680
LCS 680-770680/2-A	Lab Control Sample	Total Recoverable	Water	6020B	770680
680-232781-E-1-E MS	Matrix Spike	Total Recoverable	Water	6020B	770680
680-232781-E-1-F MSD	Matrix Spike Duplicate	Total Recoverable	Water	6020B	770680

Analysis Batch: 771193

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-232820-1	MCI-GWA-1B	Total Recoverable	Water	6020B	770680
680-232820-2	MCI-GWC-1A	Total Recoverable	Water	6020B	770680
680-232820-3	MCI-GWC-5A	Total Recoverable	Water	6020B	770680
680-232820-4	MCI-GWC-6A	Total Recoverable	Water	6020B	770680
680-232820-5	MCI-LF3-FD-05	Total Recoverable	Water	6020B	770680
680-232820-6	MCI-LF3-FB-09	Total Recoverable	Water	6020B	770680

QC Association Summary

Client: Southern Company
 Project/Site: Plant McIntosh Landfill #3

Job ID: 680-232820-1

Metals (Continued)

Analysis Batch: 771193 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-232820-7	MCI-LF3-EB-11	Total Recoverable	Water	6020B	770680
MB 680-770680/1-A	Method Blank	Total Recoverable	Water	6020B	770680
LCS 680-770680/2-A	Lab Control Sample	Total Recoverable	Water	6020B	770680
680-232781-E-1-E MS	Matrix Spike	Total Recoverable	Water	6020B	770680
680-232781-E-1-F MSD	Matrix Spike Duplicate	Total Recoverable	Water	6020B	770680

General Chemistry

Analysis Batch: 771295

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-232820-1	MCI-GWA-1B	Total/NA	Water	2540C-2011	
680-232820-2	MCI-GWC-1A	Total/NA	Water	2540C-2011	
680-232820-3	MCI-GWC-5A	Total/NA	Water	2540C-2011	
680-232820-4	MCI-GWC-6A	Total/NA	Water	2540C-2011	
680-232820-5	MCI-LF3-FD-05	Total/NA	Water	2540C-2011	
680-232820-6	MCI-LF3-FB-09	Total/NA	Water	2540C-2011	
680-232820-7	MCI-LF3-EB-11	Total/NA	Water	2540C-2011	
MB 680-771295/1	Method Blank	Total/NA	Water	2540C-2011	
LCS 680-771295/2	Lab Control Sample	Total/NA	Water	2540C-2011	
LCSD 680-771295/3	Lab Control Sample Dup	Total/NA	Water	2540C-2011	
680-232751-B-1 DU	Duplicate	Total/NA	Water	2540C-2011	

Field Service / Mobile Lab

Analysis Batch: 771179

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-232820-1	MCI-GWA-1B	Total/NA	Water	Field Sampling	
680-232820-2	MCI-GWC-1A	Total/NA	Water	Field Sampling	
680-232820-3	MCI-GWC-5A	Total/NA	Water	Field Sampling	
680-232820-4	MCI-GWC-6A	Total/NA	Water	Field Sampling	

Lab Chronicle

Client: Southern Company
 Project/Site: Plant McIntosh Landfill #3

Job ID: 680-232820-1

Client Sample ID: MCI-GWA-1B

Lab Sample ID: 680-232820-1

Date Collected: 03/28/23 16:03

Matrix: Water

Date Received: 03/30/23 08:20

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	300.0-1993 R2.1		1	5 mL	5 mL	772973	04/13/23 03:36	GE	EET SAV
Instrument ID: CICK										
Total Recoverable	Prep	3005A			25 mL	125 mL	770680	03/31/23 06:56	RR	EET SAV
Total Recoverable	Analysis	6020B		1			770992	03/31/23 16:41	BJB	EET SAV
Instrument ID: ICPMSC										
Total Recoverable	Prep	3005A			25 mL	125 mL	770680	03/31/23 06:56	RR	EET SAV
Total Recoverable	Analysis	6020B		1			771193	04/03/23 12:29	BJB	EET SAV
Instrument ID: ICPMSC										
Total/NA	Analysis	2540C-2011		1	200 mL	200 mL	771295	04/04/23 11:12	PG	EET SAV
Instrument ID: NOEQUIP										
Total/NA	Analysis	Field Sampling		1			771179	03/28/23 16:03	T1C	EET SAV
Instrument ID: NOEQUIP										

Client Sample ID: MCI-GWC-1A

Lab Sample ID: 680-232820-2

Date Collected: 03/29/23 11:40

Matrix: Water

Date Received: 03/30/23 08:20

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	300.0-1993 R2.1		1	5 mL	5 mL	772973	04/13/23 04:15	GE	EET SAV
Instrument ID: CICK										
Total Recoverable	Prep	3005A			25 mL	125 mL	770680	03/31/23 06:56	RR	EET SAV
Total Recoverable	Analysis	6020B		1			770992	03/31/23 16:45	BJB	EET SAV
Instrument ID: ICPMSC										
Total Recoverable	Prep	3005A			25 mL	125 mL	770680	03/31/23 06:56	RR	EET SAV
Total Recoverable	Analysis	6020B		1			771193	04/03/23 12:33	BJB	EET SAV
Instrument ID: ICPMSC										
Total/NA	Analysis	2540C-2011		1	200 mL	200 mL	771295	04/04/23 11:12	PG	EET SAV
Instrument ID: NOEQUIP										
Total/NA	Analysis	Field Sampling		1			771179	03/29/23 11:40	T1C	EET SAV
Instrument ID: NOEQUIP										

Client Sample ID: MCI-GWC-5A

Lab Sample ID: 680-232820-3

Date Collected: 03/29/23 13:22

Matrix: Water

Date Received: 03/30/23 08:20

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	300.0-1993 R2.1		1	5 mL	5 mL	772973	04/13/23 04:28	GE	EET SAV
Instrument ID: CICK										
Total Recoverable	Prep	3005A			25 mL	125 mL	770680	03/31/23 06:56	RR	EET SAV
Total Recoverable	Analysis	6020B		1			770992	03/31/23 16:33	BJB	EET SAV
Instrument ID: ICPMSC										
Total Recoverable	Prep	3005A			25 mL	125 mL	770680	03/31/23 06:56	RR	EET SAV
Total Recoverable	Analysis	6020B		1			771193	04/03/23 12:20	BJB	EET SAV
Instrument ID: ICPMSC										

Lab Chronicle

Client: Southern Company
 Project/Site: Plant McIntosh Landfill #3

Job ID: 680-232820-1

Client Sample ID: MCI-GWC-5A

Lab Sample ID: 680-232820-3

Date Collected: 03/29/23 13:22

Matrix: Water

Date Received: 03/30/23 08:20

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	2540C-2011		1	200 mL	200 mL	771295	04/04/23 11:12	PG	EET SAV
Total/NA	Analysis	Field Sampling		1			771179	03/29/23 13:22	T1C	EET SAV
Instrument ID: NOEQUIP										

Client Sample ID: MCI-GWC-6A

Lab Sample ID: 680-232820-4

Date Collected: 03/29/23 09:50

Matrix: Water

Date Received: 03/30/23 08:20

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	300.0-1993 R2.1		1	5 mL	5 mL	772973	04/13/23 04:42	GE	EET SAV
Instrument ID: CICK										
Total Recoverable	Prep	3005A			25 mL	125 mL	770680	03/31/23 06:56	RR	EET SAV
Total Recoverable	Analysis	6020B		1			770992	03/31/23 16:29	BJB	EET SAV
Instrument ID: ICPMSC										
Total Recoverable	Prep	3005A			25 mL	125 mL	770680	03/31/23 06:56	RR	EET SAV
Total Recoverable	Analysis	6020B		1			771193	04/03/23 12:16	BJB	EET SAV
Instrument ID: ICPMSC										
Total/NA	Analysis	2540C-2011		1	200 mL	200 mL	771295	04/04/23 11:12	PG	EET SAV
Instrument ID: NOEQUIP										
Total/NA	Analysis	Field Sampling		1			771179	03/29/23 09:50	T1C	EET SAV
Instrument ID: NOEQUIP										

Client Sample ID: MCI-LF3-FD-05

Lab Sample ID: 680-232820-5

Date Collected: 03/28/23 00:00

Matrix: Water

Date Received: 03/30/23 08:20

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	300.0-1993 R2.1		1	5 mL	5 mL	772973	04/13/23 04:55	GE	EET SAV
Instrument ID: CICK										
Total Recoverable	Prep	3005A			25 mL	125 mL	770680	03/31/23 06:56	RR	EET SAV
Total Recoverable	Analysis	6020B		1			770992	03/31/23 16:57	BJB	EET SAV
Instrument ID: ICPMSC										
Total Recoverable	Prep	3005A			25 mL	125 mL	770680	03/31/23 06:56	RR	EET SAV
Total Recoverable	Analysis	6020B		1			771193	04/03/23 12:37	BJB	EET SAV
Instrument ID: ICPMSC										
Total/NA	Analysis	2540C-2011		1	200 mL	200 mL	771295	04/04/23 11:12	PG	EET SAV
Instrument ID: NOEQUIP										

Client Sample ID: MCI-LF3-FB-09

Lab Sample ID: 680-232820-6

Date Collected: 03/29/23 10:00

Matrix: Water

Date Received: 03/30/23 08:20

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	300.0-1993 R2.1		1	5 mL	5 mL	772973	04/13/23 05:08	GE	EET SAV
Instrument ID: CICK										

Lab Chronicle

Client: Southern Company
 Project/Site: Plant McIntosh Landfill #3

Job ID: 680-232820-1

Client Sample ID: MCI-LF3-FB-09

Lab Sample ID: 680-232820-6

Date Collected: 03/29/23 10:00

Matrix: Water

Date Received: 03/30/23 08:20

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total Recoverable	Prep	3005A			25 mL	125 mL	770680	03/31/23 06:56	RR	EET SAV
Total Recoverable	Analysis	6020B		1			770992	03/31/23 17:01	BJB	EET SAV
Instrument ID: ICPMSC										
Total Recoverable	Prep	3005A			25 mL	125 mL	770680	03/31/23 06:56	RR	EET SAV
Total Recoverable	Analysis	6020B		1			771193	04/03/23 12:41	BJB	EET SAV
Instrument ID: ICPMSC										
Total/NA	Analysis	2540C-2011		1	200 mL	200 mL	771295	04/04/23 11:12	PG	EET SAV
Instrument ID: NOEQUIP										

Client Sample ID: MCI-LF3-EB-11

Lab Sample ID: 680-232820-7

Date Collected: 03/29/23 13:50

Matrix: Water

Date Received: 03/30/23 08:20

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	300.0-1993 R2.1		1	5 mL	5 mL	772973	04/13/23 05:21	GE	EET SAV
Instrument ID: CICK										
Total Recoverable	Prep	3005A			25 mL	125 mL	770680	03/31/23 06:56	RR	EET SAV
Total Recoverable	Analysis	6020B		1			770992	03/31/23 16:37	BJB	EET SAV
Instrument ID: ICPMSC										
Total Recoverable	Prep	3005A			25 mL	125 mL	770680	03/31/23 06:56	RR	EET SAV
Total Recoverable	Analysis	6020B		1			771193	04/03/23 12:25	BJB	EET SAV
Instrument ID: ICPMSC										
Total/NA	Analysis	2540C-2011		1	200 mL	200 mL	771295	04/04/23 11:12	PG	EET SAV
Instrument ID: NOEQUIP										

Laboratory References:

EET SAV = Eurofins Savannah, 5102 LaRoche Avenue, Savannah, GA 31404, TEL (912)354-7858

Accreditation/Certification Summary

Client: Southern Company
Project/Site: Plant McIntosh Landfill #3

Job ID: 680-232820-1

Laboratory: Eurofins Savannah

The accreditations/certifications listed below are applicable to this report.

Authority	Program	Identification Number	Expiration Date
Florida	NELAP	E87052	06-30-23
Georgia	State	E87052	06-30-23

1

2

3

4

5

6

7

8

9

10

11

12

Method Summary

Client: Southern Company
Project/Site: Plant McIntosh Landfill #3

Job ID: 680-232820-1

Method	Method Description	Protocol	Laboratory
300.0-1993 R2.1	Anions, Ion Chromatography	MCAWW	EET SAV
6020B	Metals (ICP/MS)	SW846	EET SAV
2540C-2011	Total Dissolved Solids (Dried at 180 °C)	SM	EET SAV
Field Sampling	Field Sampling	EPA	EET SAV
3005A	Preparation, Total Recoverable or Dissolved Metals	SW846	EET SAV

Protocol References:

EPA = US Environmental Protection Agency

MCAWW = "Methods For Chemical Analysis Of Water And Wastes", EPA-600/4-79-020, March 1983 And Subsequent Revisions.

SM = "Standard Methods For The Examination Of Water And Wastewater"


SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

Laboratory References:

EET SAV = Eurofins Savannah, 5102 LaRoche Avenue, Savannah, GA 31404, TEL (912)354-7858

Client Information		Sampler: <i>D. Johnson</i>	ACC	Lab PM: Fuller David	Carrier Tracking No(s)	COC No	Page: 1 of 1
Client Contact: <i>770-594-5998</i>		Phone: <i>770-594-5998</i>		E-Mail: <i>David.Fuller@eurofins.com</i>			Job #:
Company: GA POWER		Address: 241 Ralph McGill Blvd SE	Due Date Requested:	Analysis Requested			
City: Atlanta		TAT Requested (days)					
State/Zip: GA 30308		Standards					
Phone: 404-506-7116(Tel)		Lab Project #: <i>68027732</i>					
Email: <i>68027732</i>		PO #:					
SCS Contacts / ACC Contacts		Project #:					
Plant McIntosh Landfill 3		SSCW#:					
Site: Georgia							

Sample Identification	Sample Date (mm/dd/yy)	Sample Time (hhmm)	Sample Type (G=Comp, G=grab)	Matrix (Weigh ground water, Measuring water, Control)	Preservation Code	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	APP III Metals: B Ca	CI F SO ₄ & TDS (EPA 300.0 & SM 2540C)	Custom State 8 Permit Metals (EPA 6020)	Ba Be Cr Co Cu Pb V Zn	Total Number of containers	Task Code
MCI-GWA-1B	3/28/23	1603	G	WG		X	X					3	MCI-CCR-OTH-2023-29 Special Instructions/Note: Full APP III + 8 State Metals
MCI-GWC-1A	3/29/23	1140	G	WG								3	
MCI-GWC-5A	3/29/23	1322	G	WG								3	
MCI-GWC-6A	3/29/23	0950	G	WG								3	
MCI-LF3-FD-05	3/28/23	---	G	WG								3	
MCI-LF3-FB-09	3/29/23	1000	G	WQ								3	
MCI-LF3-EB-11	3/29/23	1350	G	WQ								3	



680-232820 Chain of Custody

Special Disposal (A fee may be assessed if samples are returned to client)

Return To Client Archive For _____ Months

Special Instructions/QC Requirements: State Permit Metals barium, beryllium chromium cobalt, copper lead vanadium zinc

Disposal By Lab

Empty Kit Relinquished by _____ Date _____

Relinquished by *Brenda Johnson* Date/Time *3/30/23* / *0820* Company *VACC*

Relinquished by _____ Date/Time _____ Company _____

Relinquished by _____ Date/Time _____ Company _____

Custody Seals Intact: Yes No Custody Seal No _____

Cooler Temperature(s) °C and Other Remarks: *05/05*

Login Sample Receipt Checklist

Client: Southern Company

Job Number: 680-232820-1

Login Number: 232820

List Number: 1

Creator: Sims, Robert D

List Source: Eurofins Savannah

Question	Answer	Comment
Radioactivity wasn't checked or is <=/ background as measured by a survey meter.	N/A	
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	N/A	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	N/A	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	

LEVEL 2A LABORATORY DATA VALIDATIONS

McIntosh Inactive Landfill No. 3

Background Event N=6

March 2023

Georgia Power Company – McIntosh Landfill 3

Quality Control Review of Analytical Data – March 2023

This narrative presents results of the Quality Control (QC) data review performed on analytical data submitted by Eurofins Environment Testing America, Savannah for groundwater samples collected at McIntosh Landfill 3 (LF3) between March 28, 2023 and March 29, 2023. 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.

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 permit-required state metals. Test methods included Inductively Coupled Plasma – Mass Spectrometry (US EPA Method 6020B), Determination of Inorganic Anions (US EPA Method 300.0), and Solids in Water (Standard Methods 2540C).

Data were reviewed in accordance with the US EPA 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.

Field Precision: Field goals for precision were met.

Accuracy: Laboratory goals for accuracy were met, except for fluoride as described in the qualifications section below.

Detection Limits: Project goals for detection limits were met.

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

Holding Times: Holding time requirements were met.

QUALIFICATIONS

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

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

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

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

- Samples MCI-GWA-1B (680-232820-1), MCI-GWC-1A (680-232820-2), and MCI-LF3-FD-05 (680-232820-5) were qualified as estimated (J) for fluoride as the associated laboratory control sample (LCS) and laboratory control sample duplicate (LCSD) recoveries were outside QC criteria (115% and 115%, respectively, above the range of 90-110).

- Certain boron results on work order 680-232820-1 were qualified as non-detect (ND) due to the analyte being detected at a similar concentration in an associated blank sample. As shown in Table 2, when the original sample result was below the reporting limit (RL), the new method detection limit (MDL) was raised to the sample result as part of the qualification process.

Atlantic Coast Consulting, Inc. reviewed the laboratory data from McIntosh LF3 sampled between March 28, 2023 and March 29, 2023 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

¹US EPA, 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

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

TABLE 1

Georgia Power Company – McIntosh LF3

Sample Summary Table – March 2023

SDG	Field Identification	Collection Date	Lab Identification	Matrix	QC Samples	Analyses		
						Metals (6020B)	Anions (300.0)	TDS (SM 2540C)
232820	MCI-GWA-1B	03/28/23	680-232820-1	WG		X	X	X
232820	MCI-GWC-1A	03/29/23	680-232820-2	WG		X	X	X
232820	MCI-GWC-5A	03/29/23	680-232820-3	WG		X	X	X
232820	MCI-GWC-6A	03/29/23	680-232820-4	WG		X	X	X
232820	MCI-LF3-FD-05	03/28/23	680-232820-5	WG	FD (MCI-GWA-1B)	X	X	X
232820	MCI-LF3-FB-09	03/29/23	680-232820-6	WQ	FB	X	X	X
232820	MCI-LF3-EB-11	03/29/23	680-232820-7	WQ	EB	X	X	X

Abbreviations:

- EB – Equipment Blank
- FB – Field Blank
- FD – Field Duplicate
- WG – Groundwater
- QC – Quality Control
- SDG – Sample Delivery Group
- TDS – Total Dissolved Solids
- WQ – Water Quality Control

TABLE 2
 Georgia Power Company – McIntosh LF3
 Qualifier Summary Table – March 2023

SDG	Field Identification	Constituent	New RL	New MDL or MDC	Qualifier	Reason
232820	MCI-GWA-1B	Fluoride			J	LCS/LCSD outside QC criteria
232820	MCI-GWC-1A	Fluoride			J	LCS/LCSD outside QC criteria
232820	MCI-LF3-FD-05	Fluoride			J	LCS/LCSD outside QC criteria
232820	MCI-GWA-1B	Boron		0.072	ND	Blank detection
232820	MCI-GWC-1A	Boron		0.063	ND	Blank detection
232820	MCI-GWC-5A	Boron		0.024	ND	Blank detection
232820	MCI-GWC-6A	Boron		0.046	ND	Blank detection
232820	MCI-LF3-FD-05	Boron		0.071	ND	Blank detection

Abbreviations:

LCS/LCSD – Lab Control Sample / Lab Control Sample Duplicate
 MDC – Minimum Detectable Concentration
 MDL – Method Detection Limit
 MS/MSD – Matrix Spike / Matrix Spike Duplicate
 RL – Reporting Limit
 RPD – Relative Percent Difference
 SDG – Sample Delivery Group
 TDS – Total Dissolved Solids

Qualifiers:

J – Estimated Result
 ND – Non-Detect Result

Low-Flow Test Report:

Test Date / Time: 3/28/2023 3:33:06 PM

Project: Plant McIntosh LF3

Operator Name: D. Johnson

Location Name: GWA-1B Well Diameter: 2 in Casing Type: PVC Screen Length: 10 ft Top of Screen: 48.53 ft Total Depth: 58.53 ft Initial Depth to Water: 21.68 ft	Pump Type: Peri. Pump Tubing Type: Poly Pump Intake From TOC: 53 ft Estimated Total Volume Pumped: 7.5 liter Flow Cell Volume: 90 ml Final Flow Rate: 250 ml/min Final Draw Down: 2.64 in	Instrument Used: Aqua TROLL 400 Serial Number: 965678
---	--	--

Test Notes:

Cloudy, rain. 74 degrees F. Sample time 1603.

FD-05 here.

Low-Flow Readings:

Date Time	Elapsed Time	pH	Temperature	Specific Conductivity	RDO Concentration	Turbidity	ORP	Depth to Water	Flow
		+/- 0.1	+/- 10	+/- 5 %	+/- 10 %	+/- 5	+/- 100	+/- 0.3	
3/28/2023 3:33 PM	00:00	6.86 pH	22.14 °C	94.00 µS/cm	6.80 mg/L	1.02 NTU	113.1 mV	21.68 ft	250.00 ml/min
3/28/2023 3:38 PM	05:00	6.21 pH	20.27 °C	58.14 µS/cm	5.81 mg/L	0.83 NTU	78.4 mV	21.80 ft	250.00 ml/min
3/28/2023 3:43 PM	10:00	5.91 pH	19.95 °C	57.85 µS/cm	4.41 mg/L	0.76 NTU	73.4 mV	21.90 ft	250.00 ml/min
3/28/2023 3:48 PM	15:00	5.80 pH	19.62 °C	56.96 µS/cm	3.57 mg/L	0.40 NTU	73.1 mV	21.90 ft	250.00 ml/min
3/28/2023 3:53 PM	20:00	5.76 pH	19.52 °C	56.75 µS/cm	3.37 mg/L	0.58 NTU	74.1 mV	21.90 ft	250.00 ml/min
3/28/2023 3:58 PM	25:00	5.75 pH	19.43 °C	56.45 µS/cm	3.32 mg/L	0.37 NTU	75.1 mV	21.90 ft	250.00 ml/min
3/28/2023 4:03 PM	30:00	5.73 pH	19.37 °C	56.16 µS/cm	3.22 mg/L	0.35 NTU	76.5 mV	21.90 ft	250.00 ml/min

Samples

Sample ID:	Description:
------------	--------------

Low-Flow Test Report:

Test Date / Time: 3/29/2023 10:45:06 AM

Project: Plant McIntosh LF3

Operator Name: D. Johnson

Location Name: GWC-1A Well Diameter: 2 in Casing Type: PVC Screen Length: 10 ft Top of Screen: 37.37 ft Total Depth: 47.37 ft Initial Depth to Water: 21.87 ft	Pump Type: Peri. Pump Tubing Type: Poly Pump Intake From TOC: 42 ft Estimated Total Volume Pumped: 8.25 liter Flow Cell Volume: 90 ml Final Flow Rate: 150 ml/min Final Draw Down: 7.56 in	Instrument Used: Aqua TROLL 400 Serial Number: 965678
---	---	--

Test Notes:

Sunny, 59 degrees F. Sample time 1140.

Low-Flow Readings:

Date Time	Elapsed Time	pH	Temperature	Specific Conductivity	RDO Concentration	Turbidity	ORP	Depth to Water	Flow
		+/- 0.1	+/- 10	+/- 5 %	+/- 10 %	+/- 5	+/- 100	+/- 0.3	
3/29/2023 10:45 AM	00:00	4.69 pH	16.49 °C	91.72 µS/cm	5.59 mg/L	1.12 NTU	108.5 mV	21.87 ft	150.00 ml/min
3/29/2023 10:50 AM	05:00	4.67 pH	18.14 °C	87.42 µS/cm	4.22 mg/L	0.81 NTU	106.3 mV	22.40 ft	150.00 ml/min
3/29/2023 10:55 AM	10:00	4.67 pH	18.48 °C	86.81 µS/cm	4.13 mg/L	0.68 NTU	107.5 mV	22.40 ft	150.00 ml/min
3/29/2023 11:00 AM	15:00	4.67 pH	18.61 °C	86.75 µS/cm	4.07 mg/L	0.65 NTU	108.6 mV	22.50 ft	150.00 ml/min
3/29/2023 11:05 AM	20:00	4.67 pH	18.70 °C	87.13 µS/cm	4.01 mg/L	0.59 NTU	113.3 mV	22.50 ft	150.00 ml/min
3/29/2023 11:10 AM	25:00	4.67 pH	18.99 °C	87.17 µS/cm	3.97 mg/L	0.61 NTU	114.9 mV	22.50 ft	150.00 ml/min
3/29/2023 11:15 AM	30:00	4.49 pH	19.32 °C	88.67 µS/cm	2.73 mg/L	0.45 NTU	111.6 mV	22.50 ft	150.00 ml/min
3/29/2023 11:20 AM	35:00	4.41 pH	19.55 °C	90.13 µS/cm	1.10 mg/L	0.51 NTU	115.5 mV	22.50 ft	150.00 ml/min
3/29/2023 11:25 AM	40:00	4.40 pH	19.67 °C	89.91 µS/cm	0.93 mg/L	0.40 NTU	111.6 mV	22.50 ft	150.00 ml/min
3/29/2023 11:30 AM	45:00	4.40 pH	19.47 °C	90.39 µS/cm	0.69 mg/L	0.43 NTU	111.6 mV	22.50 ft	150.00 ml/min
3/29/2023 11:35 AM	50:00	4.39 pH	19.37 °C	90.65 µS/cm	0.61 mg/L	0.28 NTU	111.5 mV	22.50 ft	150.00 ml/min
3/29/2023 11:40 AM	55:00	4.38 pH	19.50 °C	90.34 µS/cm	0.53 mg/L	0.21 NTU	111.4 mV	22.50 ft	150.00 ml/min

Samples

Sample ID:	Description:
------------	--------------

Low-Flow Test Report:

Test Date / Time: 3/29/2023 12:52:15 PM

Project: Plant McIntosh LF3

Operator Name: D. Johnson

Location Name: GWC-5A Well Diameter: 2 in Casing Type: PVC Screen Length: 10 ft Top of Screen: 32.6 ft Total Depth: 42.6 ft Initial Depth to Water: 23.74 ft	Pump Type: Peri. Pump Tubing Type: Poly Pump Intake From TOC: 38 ft Estimated Total Volume Pumped: 4.5 liter Flow Cell Volume: 90 ml Final Flow Rate: 150 ml/min Final Draw Down: 3.12 in	Instrument Used: Aqua TROLL 400 Serial Number: 965678
---	--	--

Test Notes:

Sunny, 64 degrees F. Sample time 1322.

EB-11 here.

Low-Flow Readings:

Date Time	Elapsed Time	pH	Temperature	Specific Conductivity	RDO Concentration	Turbidity	ORP	Depth to Water	Flow
		+/- 0.1	+/- 10	+/- 5 %	+/- 10 %	+/- 5	+/- 100	+/- 0.3	
3/29/2023 12:52 PM	00:00	5.24 pH	19.49 °C	61.45 µS/cm	6.41 mg/L	1.00 NTU	145.4 mV	23.74 ft	150.00 ml/min
3/29/2023 12:57 PM	05:00	4.99 pH	19.37 °C	48.68 µS/cm	3.62 mg/L	0.58 NTU	136.7 mV	24.00 ft	150.00 ml/min
3/29/2023 1:02 PM	10:00	4.73 pH	19.74 °C	34.75 µS/cm	0.83 mg/L	0.38 NTU	127.3 mV	24.00 ft	150.00 ml/min
3/29/2023 1:07 PM	15:00	4.71 pH	19.50 °C	33.10 µS/cm	0.38 mg/L	0.32 NTU	124.9 mV	24.00 ft	150.00 ml/min
3/29/2023 1:12 PM	20:00	4.70 pH	19.37 °C	32.82 µS/cm	0.29 mg/L	0.19 NTU	123.3 mV	24.00 ft	150.00 ml/min
3/29/2023 1:17 PM	25:00	4.69 pH	19.53 °C	32.68 µS/cm	0.25 mg/L	0.21 NTU	121.8 mV	24.00 ft	150.00 ml/min
3/29/2023 1:22 PM	30:00	4.69 pH	19.38 °C	32.55 µS/cm	0.23 mg/L	0.23 NTU	120.3 mV	24.00 ft	150.00 ml/min

Samples

Sample ID:	Description:
------------	--------------

Low-Flow Test Report:

Test Date / Time: 3/29/2023 9:20:12 AM

Project: Plant McIntosh LF3

Operator Name: D. Johnson

Location Name: GWC-6A Well Diameter: 2 in Casing Type: PVC Screen Length: 10 ft Top of Screen: 32.43 ft Total Depth: 42.43 ft Initial Depth to Water: 23.65 ft	Pump Type: Peri. Pump Tubing Type: Poly Pump Intake From TOC: 37 ft Estimated Total Volume Pumped: 6 liter Flow Cell Volume: 90 ml Final Flow Rate: 200 ml/min Final Draw Down: 4.2 in	Instrument Used: Aqua TROLL 400 Serial Number: 965678
---	---	--

Test Notes:

Sunny, 55 degrees F. Sample time 0950.

FB-09 here at 1000

Low-Flow Readings:

Date Time	Elapsed Time	pH	Temperature	Specific Conductivity	RDO Concentration	Turbidity	ORP	Depth to Water	Flow
		+/- 0.1	+/- 10	+/- 5 %	+/- 10 %	+/- 5	+/- 100	+/- 0.3	
3/29/2023 9:20 AM	00:00	5.17 pH	15.26 °C	99.50 µS/cm	2.22 mg/L	1.03 NTU	121.7 mV	23.65 ft	200.00 ml/min
3/29/2023 9:25 AM	05:00	5.11 pH	16.88 °C	71.44 µS/cm	0.62 mg/L	0.43 NTU	94.6 mV	24.00 ft	200.00 ml/min
3/29/2023 9:30 AM	10:00	5.12 pH	17.28 °C	71.03 µS/cm	0.42 mg/L	0.48 NTU	90.3 mV	24.00 ft	200.00 ml/min
3/29/2023 9:35 AM	15:00	5.13 pH	17.62 °C	70.47 µS/cm	0.36 mg/L	0.46 NTU	87.8 mV	24.00 ft	200.00 ml/min
3/29/2023 9:40 AM	20:00	5.14 pH	17.63 °C	69.99 µS/cm	0.35 mg/L	0.28 NTU	87.2 mV	24.00 ft	200.00 ml/min
3/29/2023 9:45 AM	25:00	5.14 pH	17.67 °C	69.05 µS/cm	0.32 mg/L	0.29 NTU	87.0 mV	24.00 ft	200.00 ml/min
3/29/2023 9:50 AM	30:00	5.18 pH	17.84 °C	68.56 µS/cm	0.55 mg/L	0.30 NTU	86.5 mV	24.00 ft	200.00 ml/min

Samples

Sample ID:	Description:
------------	--------------



Daily Instrument Calibration Log

SITE: Plant McIntosh
 TECHNICIAN: D. Johnson
 WATER LEVEL: 53 Solmist
 WATER LEVEL S/N: 530984

INSTRUMENT S/N: 965678
 INSTRUMENT TYPE: AquaTroll
 CAL. SOLUTIONS:
 ID: ORP LOT #: 261207 EXP. DATE: June 2023
 ID: pH 7 LOT #: 261045 EXP. DATE: 12/24
 ID: conductivity LOT #: 266656 EXP. DATE: 11/23
 ID: pH 10 LOT #: 16458 EXP. DATE: 06/23 /
 ID: pH 4 LOT #: 2611670 EXP. DATE: 08/24 **Midday pH check**
 ID: _____ LOT #: _____ EXP. DATE: _____ **Must be less than .10**
 ID: _____ LOT #: _____ EXP. DATE: _____ **(6.90-7.10 range)**

Recalibrate if not within range

Calibration Date: 3/28/2023

RDO: 100% sat. = 101.80 **Midday pH check**
 PH: 4.00 = 4.38 7.00 = 7.16 10.00 = 10.11 7.0 = _____
 PH Recal (if needed): 4.00 = _____ 7.00 = _____ 10.00 = _____ 7.0 = _____ post recal check
 CONDUCTIVITY: 1413 = 1282
 ORP (mV) 240 = 240

Calibration Date: 3/29/2023

RDO: 100% sat. = 101.49 **Midday pH check**
 PH: 4.00 = 3.99 7.00 = 7.00 10.00 = 10.06 7.0 = 7.01
 PH Recal (if needed): 4.00 = _____ 7.00 = _____ 10.00 = _____ 7.0 = _____ post recal check
 CONDUCTIVITY: 1413 = 1295
 ORP (mV) 240 = 239.8

Calibration Date:

RDO: 100% sat. = _____ **Midday pH check**
 PH: 4.00 = _____ 7.00 = _____ 10.00 = _____ 7.0 = _____
 PH Recal (if needed): 4.00 = _____ 7.00 = _____ 10.00 = _____ 7.0 = _____ post recal check
 CONDUCTIVITY: _____ = _____
 ORP (mV) _____ = _____

Calibration Date:

RDO: 100% sat. = _____ **Midday pH check**
 PH: 4.00 = _____ 7.00 = _____ 10.00 = _____ 7.0 = _____
 PH Recal (if needed): 4.00 = _____ 7.00 = _____ 10.00 = _____ 7.0 = _____ post recal check
 CONDUCTIVITY: _____ = _____
 ORP (mV) _____ = _____

Calibration Date:

RDO: 100% sat. = _____ **Midday pH check**
 PH: 4.00 = _____ 7.00 = _____ 10.00 = _____ 7.0 = _____
 PH Recal (if needed): 4.00 = _____ 7.00 = _____ 10.00 = _____ 7.0 = _____ post recal check
 CONDUCTIVITY: _____ = _____
 ORP (mV) _____ = _____



Daily Instrument Calibration Log

SITE: Plant McIntosh
TECHNICIAN: D. Johnson

INSTRUMENT S/N: 11090 C012353
INSTRUMENT TYPE: Hach 2100Q
CAL. SOLUTION: 0 NTU - LOT # \leftarrow EXP. DATE: new DI water
10 NTU - LOT # A2122 EXP. DATE: Aug-23
20 NTU - LOT # A2124 EXP. DATE: 07123

Calibration Date: 3/28/2023

Calibration Solution	Instrument Reading	
0.0	<u>0.14</u>	NTU
10.0	<u>9.67</u>	NTU
20.0	<u>18.8</u>	NTU

Calibration Date: 3/29/2023

Calibration Solution	Instrument Reading	
0.0	<u>0.19</u>	NTU
10.0	<u>10.6</u>	NTU
20.0	<u>20.1</u>	NTU

Calibration Date:

Calibration Solution	Instrument Reading	
0.0		NTU
10.0		NTU
20.0		NTU

Calibration Date:

Calibration Solution	Instrument Reading	
0.0		NTU
10.0		NTU
20.0		NTU

Calibration Date:

Calibration Solution	Instrument Reading	
0.0		NTU
10.0		NTU
20.0		NTU

Calibration Date:

Calibration Solution	Instrument Reading	
0.0		NTU
10.0		NTU
20.0		NTU

APPENDIX B

*Laboratory Analytical and Field Sampling Reports
May 2023 Monitoring Event*

ANALYTICAL REPORT

PREPARED FOR

Attn: Lauren Hartley
Southern Company
241 Ralph McGill Blvd SE
B10185
Atlanta, Georgia 30308

Generated 6/5/2023 10:06:02 AM

JOB DESCRIPTION

Plant McIntosh Landfill 3

JOB NUMBER

680-235651-1

Eurofins Savannah

Job Notes

This report may not be reproduced except in full, and with written approval from the laboratory. The results relate only to the samples tested. For questions please contact the Project Manager at the e-mail address or telephone number listed on this page.

The test results in this report relate only to the samples as received by the laboratory and will meet all requirements of the methodology, with any exceptions noted. This report shall not be reproduced except in full, without the express written approval of the laboratory. All questions should be directed to the Eurofins Environment Testing Southeast, LLC Project Manager.

Authorization



Authorized for release by
David Fuller, Project Manager
David.Fuller@et.eurofinsus.com
(770)344-8986

Generated
6/5/2023 10:06:02 AM

Definitions/Glossary

Client: Southern Company
Project/Site: Plant McIntosh Landfill 3

Job ID: 680-235651-1

Qualifiers

HPLC/IC

Qualifier	Qualifier Description
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

Metals

Qualifier	Qualifier Description
B	Compound was found in the blank and sample.
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
□	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CFL	Contains Free Liquid
CFU	Colony Forming Unit
CNF	Contains No Free Liquid
DER	Duplicate Error Ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL	Detection Limit (DoD/DOE)
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision Level Concentration (Radiochemistry)
EDL	Estimated Detection Limit (Dioxin)
LOD	Limit of Detection (DoD/DOE)
LOQ	Limit of Quantitation (DoD/DOE)
MCL	EPA recommended "Maximum Contaminant Level"
MDA	Minimum Detectable Activity (Radiochemistry)
MDC	Minimum Detectable Concentration (Radiochemistry)
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
MPN	Most Probable Number
MQL	Method Quantitation Limit
NC	Not Calculated
ND	Not Detected at the reporting limit (or MDL or EDL if shown)
NEG	Negative / Absent
POS	Positive / Present
PQL	Practical Quantitation Limit
PRES	Presumptive
QC	Quality Control
RER	Relative Error Ratio (Radiochemistry)
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)
TNTC	Too Numerous To Count

Sample Summary

Client: Southern Company
Project/Site: Plant McIntosh Landfill 3

Job ID: 680-235651-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
680-235651-1	MCI-GWA-1B	Water	05/30/23 15:10	06/01/23 08:05
680-235651-2	MCI-GWC-1A	Water	05/31/23 10:40	06/01/23 08:05
680-235651-3	MCI-GWC-5A	Water	05/31/23 12:45	06/01/23 08:05
680-235651-4	MCI-GWC-6A	Water	05/31/23 09:20	06/01/23 08:05
680-235651-5	MCI-LF3-FD-05	Water	05/31/23 00:00	06/01/23 08:05
680-235651-6	MCI-LF3-FB-09	Water	05/31/23 13:00	06/01/23 08:05
680-235651-7	MCI-LF3-EB-11	Water	05/31/23 11:00	06/01/23 08:05

1

2

3

4

5

6

7

8

9

10

11

12

Case Narrative

Client: Southern Company
Project/Site: Plant McIntosh Landfill 3

Job ID: 680-235651-1

Job ID: 680-235651-1

Laboratory: Eurofins Savannah

Narrative

**Job Narrative
680-235651-1**

Receipt

The samples were received on 6/1/2023 8:05 AM. Unless otherwise noted below, the samples arrived in good condition, and where required, properly preserved and on ice. The temperature of the cooler at receipt was 1.8° C.

HPLC/IC

No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

Metals

No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

General Chemistry

No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

1

2

3

4

5

6

7

8

9

10

11

12

Client Sample Results

Client: Southern Company
Project/Site: Plant McIntosh Landfill 3

Job ID: 680-235651-1

Client Sample ID: MCI-GWA-1B

Lab Sample ID: 680-235651-1

Date Collected: 05/30/23 15:10

Matrix: Water

Date Received: 06/01/23 08:05

Method: MCAWW 300.0-1993 R2.1 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	9.1		1.0	0.20	mg/L			06/04/23 17:23	1
Fluoride	0.067	J	0.10	0.040	mg/L			06/04/23 17:23	1
Sulfate	2.0		1.0	0.40	mg/L			06/04/23 17:23	1

Method: SW846 6020B - Metals (ICP/MS) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Barium	0.019		0.010	0.00089	mg/L		06/02/23 05:02	06/02/23 17:49	1
Beryllium	<0.00020		0.0025	0.00020	mg/L		06/02/23 05:02	06/02/23 17:49	1
Boron	0.068	J	0.080	0.022	mg/L		06/02/23 05:02	06/02/23 17:49	1
Calcium	3.3		0.50	0.14	mg/L		06/02/23 05:02	06/02/23 17:49	1
Chromium	<0.0012		0.0020	0.0012	mg/L		06/02/23 05:02	06/02/23 17:49	1
Cobalt	0.00028	J	0.0025	0.00022	mg/L		06/02/23 05:02	06/02/23 17:49	1
Copper	<0.0011		0.0020	0.0011	mg/L		06/02/23 05:02	06/02/23 17:49	1
Lead	0.00043	J B	0.0010	0.00021	mg/L		06/02/23 05:02	06/02/23 17:49	1
Vanadium	<0.00063		0.0020	0.00063	mg/L		06/02/23 05:02	06/02/23 17:49	1
Zinc	0.0076		0.0050	0.0028	mg/L		06/02/23 05:02	06/02/23 17:49	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids (SM 2540C-2011)	51		10	10	mg/L			06/01/23 12:53	1

Method: EPA Field Sampling - Field Sampling

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Field pH	5.89				SU			05/30/23 15:10	1

Client Sample ID: MCI-GWC-1A

Lab Sample ID: 680-235651-2

Date Collected: 05/31/23 10:40

Matrix: Water

Date Received: 06/01/23 08:05

Method: MCAWW 300.0-1993 R2.1 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	13		1.0	0.20	mg/L			06/04/23 18:01	1
Fluoride	0.11		0.10	0.040	mg/L			06/04/23 18:01	1
Sulfate	0.43	J	1.0	0.40	mg/L			06/04/23 18:01	1

Method: SW846 6020B - Metals (ICP/MS) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Barium	0.29		0.010	0.00089	mg/L		06/02/23 05:02	06/02/23 17:53	1
Beryllium	0.00039	J	0.0025	0.00020	mg/L		06/02/23 05:02	06/02/23 17:53	1
Boron	0.054	J	0.080	0.022	mg/L		06/02/23 05:02	06/02/23 17:53	1
Calcium	2.8		0.50	0.14	mg/L		06/02/23 05:02	06/02/23 17:53	1
Chromium	0.0012	J	0.0020	0.0012	mg/L		06/02/23 05:02	06/02/23 17:53	1
Cobalt	0.0050		0.0025	0.00022	mg/L		06/02/23 05:02	06/02/23 17:53	1
Copper	0.0012	J	0.0020	0.0011	mg/L		06/02/23 05:02	06/02/23 17:53	1
Lead	0.00048	J B	0.0010	0.00021	mg/L		06/02/23 05:02	06/02/23 17:53	1
Vanadium	<0.00063		0.0020	0.00063	mg/L		06/02/23 05:02	06/02/23 17:53	1
Zinc	0.020		0.0050	0.0028	mg/L		06/02/23 05:02	06/02/23 17:53	1

Client Sample Results

Client: Southern Company
Project/Site: Plant McIntosh Landfill 3

Job ID: 680-235651-1

Client Sample ID: MCI-GWC-1A

Lab Sample ID: 680-235651-2

Date Collected: 05/31/23 10:40

Matrix: Water

Date Received: 06/01/23 08:05

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids (SM 2540C-2011)	61		10	10	mg/L			06/01/23 12:53	1

Method: EPA Field Sampling - Field Sampling

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Field pH	4.31				SU			05/31/23 10:40	1

Client Sample ID: MCI-GWC-5A

Lab Sample ID: 680-235651-3

Date Collected: 05/31/23 12:45

Matrix: Water

Date Received: 06/01/23 08:05

Method: MCAWW 300.0-1993 R2.1 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	4.8		1.0	0.20	mg/L			06/04/23 18:14	1
Fluoride	0.056	J	0.10	0.040	mg/L			06/04/23 18:14	1
Sulfate	0.71	J	1.0	0.40	mg/L			06/04/23 18:14	1

Method: SW846 6020B - Metals (ICP/MS) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Barium	0.076		0.010	0.00089	mg/L		06/02/23 05:02	06/02/23 17:57	1
Beryllium	0.00024	J	0.0025	0.00020	mg/L		06/02/23 05:02	06/02/23 17:57	1
Boron	<0.022		0.080	0.022	mg/L		06/02/23 05:02	06/02/23 17:57	1
Calcium	1.1		0.50	0.14	mg/L		06/02/23 05:02	06/02/23 17:57	1
Chromium	<0.0012		0.0020	0.0012	mg/L		06/02/23 05:02	06/02/23 17:57	1
Cobalt	0.0021	J	0.0025	0.00022	mg/L		06/02/23 05:02	06/02/23 17:57	1
Copper	<0.0011		0.0020	0.0011	mg/L		06/02/23 05:02	06/02/23 17:57	1
Lead	0.00061	J B	0.0010	0.00021	mg/L		06/02/23 05:02	06/02/23 17:57	1
Vanadium	<0.00063		0.0020	0.00063	mg/L		06/02/23 05:02	06/02/23 17:57	1
Zinc	0.0096		0.0050	0.0028	mg/L		06/02/23 05:02	06/02/23 17:57	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids (SM 2540C-2011)	25		10	10	mg/L			06/01/23 12:53	1

Method: EPA Field Sampling - Field Sampling

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Field pH	4.62				SU			05/31/23 12:45	1

Client Sample ID: MCI-GWC-6A

Lab Sample ID: 680-235651-4

Date Collected: 05/31/23 09:20

Matrix: Water

Date Received: 06/01/23 08:05

Method: MCAWW 300.0-1993 R2.1 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	9.4		1.0	0.20	mg/L			06/04/23 18:27	1
Fluoride	0.050	J	0.10	0.040	mg/L			06/04/23 18:27	1
Sulfate	3.3		1.0	0.40	mg/L			06/04/23 18:27	1

Method: SW846 6020B - Metals (ICP/MS) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Barium	0.096		0.010	0.00089	mg/L		06/02/23 05:02	06/02/23 18:01	1

Eurofins Savannah

Client Sample Results

Client: Southern Company
Project/Site: Plant McIntosh Landfill 3

Job ID: 680-235651-1

Client Sample ID: MCI-GWC-6A

Lab Sample ID: 680-235651-4

Date Collected: 05/31/23 09:20

Matrix: Water

Date Received: 06/01/23 08:05

Method: SW846 6020B - Metals (ICP/MS) - Total Recoverable (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Beryllium	0.00032	J	0.0025	0.00020	mg/L		06/02/23 05:02	06/02/23 18:01	1
Boron	0.036	J	0.080	0.022	mg/L		06/02/23 05:02	06/02/23 18:01	1
Calcium	3.8		0.50	0.14	mg/L		06/02/23 05:02	06/02/23 18:01	1
Chromium	0.0021		0.0020	0.0012	mg/L		06/02/23 05:02	06/02/23 18:01	1
Cobalt	0.0011	J	0.0025	0.00022	mg/L		06/02/23 05:02	06/02/23 18:01	1
Copper	<0.0011		0.0020	0.0011	mg/L		06/02/23 05:02	06/02/23 18:01	1
Lead	0.00038	J B	0.0010	0.00021	mg/L		06/02/23 05:02	06/02/23 18:01	1
Vanadium	<0.00063		0.0020	0.00063	mg/L		06/02/23 05:02	06/02/23 18:01	1
Zinc	0.0049	J	0.0050	0.0028	mg/L		06/02/23 05:02	06/02/23 18:01	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids (SM 2540C-2011)	68		10	10	mg/L			06/01/23 12:53	1

Method: EPA Field Sampling - Field Sampling

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Field pH	5.07				SU			05/31/23 09:20	1

Client Sample ID: MCI-LF3-FD-05

Lab Sample ID: 680-235651-5

Date Collected: 05/31/23 00:00

Matrix: Water

Date Received: 06/01/23 08:05

Method: MCAWW 300.0-1993 R2.1 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	9.5		1.0	0.20	mg/L			06/04/23 18:39	1
Fluoride	0.049	J	0.10	0.040	mg/L			06/04/23 18:39	1
Sulfate	3.4		1.0	0.40	mg/L			06/04/23 18:39	1

Method: SW846 6020B - Metals (ICP/MS) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Barium	0.091		0.010	0.00089	mg/L		06/02/23 05:02	06/02/23 18:05	1
Beryllium	0.00027	J	0.0025	0.00020	mg/L		06/02/23 05:02	06/02/23 18:05	1
Boron	0.034	J	0.080	0.022	mg/L		06/02/23 05:02	06/02/23 18:05	1
Calcium	3.5		0.50	0.14	mg/L		06/02/23 05:02	06/02/23 18:05	1
Chromium	0.0018	J	0.0020	0.0012	mg/L		06/02/23 05:02	06/02/23 18:05	1
Cobalt	0.0011	J	0.0025	0.00022	mg/L		06/02/23 05:02	06/02/23 18:05	1
Copper	<0.0011		0.0020	0.0011	mg/L		06/02/23 05:02	06/02/23 18:05	1
Lead	0.00039	J B	0.0010	0.00021	mg/L		06/02/23 05:02	06/02/23 18:05	1
Vanadium	<0.00063		0.0020	0.00063	mg/L		06/02/23 05:02	06/02/23 18:05	1
Zinc	0.0043	J	0.0050	0.0028	mg/L		06/02/23 05:02	06/02/23 18:05	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids (SM 2540C-2011)	70		10	10	mg/L			06/01/23 12:53	1

Client Sample Results

Client: Southern Company
Project/Site: Plant McIntosh Landfill 3

Job ID: 680-235651-1

Client Sample ID: MCI-LF3-FB-09

Lab Sample ID: 680-235651-6

Date Collected: 05/31/23 13:00

Matrix: Water

Date Received: 06/01/23 08:05

Method: MCAWW 300.0-1993 R2.1 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	<0.20		1.0	0.20	mg/L			06/04/23 18:52	1
Fluoride	0.067	J	0.10	0.040	mg/L			06/04/23 18:52	1
Sulfate	<0.40		1.0	0.40	mg/L			06/04/23 18:52	1

Method: SW846 6020B - Metals (ICP/MS) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Barium	<0.00089		0.010	0.00089	mg/L		06/02/23 05:02	06/02/23 18:18	1
Beryllium	<0.00020		0.0025	0.00020	mg/L		06/02/23 05:02	06/02/23 18:18	1
Boron	<0.022		0.080	0.022	mg/L		06/02/23 05:02	06/02/23 18:18	1
Calcium	<0.14		0.50	0.14	mg/L		06/02/23 05:02	06/02/23 18:18	1
Chromium	<0.0012		0.0020	0.0012	mg/L		06/02/23 05:02	06/02/23 18:18	1
Cobalt	<0.00022		0.0025	0.00022	mg/L		06/02/23 05:02	06/02/23 18:18	1
Copper	<0.0011		0.0020	0.0011	mg/L		06/02/23 05:02	06/02/23 18:18	1
Lead	0.00043	J B	0.0010	0.00021	mg/L		06/02/23 05:02	06/02/23 18:18	1
Vanadium	<0.00063		0.0020	0.00063	mg/L		06/02/23 05:02	06/02/23 18:18	1
Zinc	<0.0028		0.0050	0.0028	mg/L		06/02/23 05:02	06/02/23 18:18	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids (SM 2540C-2011)	<10		10	10	mg/L			06/01/23 12:53	1

Client Sample ID: MCI-LF3-EB-11

Lab Sample ID: 680-235651-7

Date Collected: 05/31/23 11:00

Matrix: Water

Date Received: 06/01/23 08:05

Method: MCAWW 300.0-1993 R2.1 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	<0.20		1.0	0.20	mg/L			06/04/23 19:04	1
Fluoride	0.068	J	0.10	0.040	mg/L			06/04/23 19:04	1
Sulfate	<0.40		1.0	0.40	mg/L			06/04/23 19:04	1

Method: SW846 6020B - Metals (ICP/MS) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Barium	<0.00089		0.010	0.00089	mg/L		06/02/23 05:02	06/02/23 18:22	1
Beryllium	<0.00020		0.0025	0.00020	mg/L		06/02/23 05:02	06/02/23 18:22	1
Boron	<0.022		0.080	0.022	mg/L		06/02/23 05:02	06/02/23 18:22	1
Calcium	<0.14		0.50	0.14	mg/L		06/02/23 05:02	06/02/23 18:22	1
Chromium	<0.0012		0.0020	0.0012	mg/L		06/02/23 05:02	06/02/23 18:22	1
Cobalt	<0.00022		0.0025	0.00022	mg/L		06/02/23 05:02	06/02/23 18:22	1
Copper	<0.0011		0.0020	0.0011	mg/L		06/02/23 05:02	06/02/23 18:22	1
Lead	0.00043	J B	0.0010	0.00021	mg/L		06/02/23 05:02	06/02/23 18:22	1
Vanadium	<0.00063		0.0020	0.00063	mg/L		06/02/23 05:02	06/02/23 18:22	1
Zinc	<0.0028		0.0050	0.0028	mg/L		06/02/23 05:02	06/02/23 18:22	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids (SM 2540C-2011)	<10		10	10	mg/L			06/01/23 12:53	1

QC Sample Results

Client: Southern Company
Project/Site: Plant McIntosh Landfill 3

Job ID: 680-235651-1

Method: 300.0-1993 R2.1 - Anions, Ion Chromatography

Lab Sample ID: MB 680-781811/33
Matrix: Water
Analysis Batch: 781811

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	<0.20		1.0	0.20	mg/L			06/04/23 16:45	1
Fluoride	<0.040		0.10	0.040	mg/L			06/04/23 16:45	1
Sulfate	<0.40		1.0	0.40	mg/L			06/04/23 16:45	1

Lab Sample ID: LCS 680-781811/34
Matrix: Water
Analysis Batch: 781811

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Chloride	10.0	9.59		mg/L		96	90 - 110
Fluoride	2.00	2.11		mg/L		105	90 - 110
Sulfate	10.0	9.99		mg/L		100	90 - 110

Lab Sample ID: LCSD 680-781811/35
Matrix: Water
Analysis Batch: 781811

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chloride	10.0	9.61		mg/L		96	90 - 110	0	15
Fluoride	2.00	2.11		mg/L		106	90 - 110	0	15
Sulfate	10.0	10.0		mg/L		100	90 - 110	0	15

Lab Sample ID: 680-235651-1 MS
Matrix: Water
Analysis Batch: 781811

Client Sample ID: MCI-GWA-1B
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Chloride	9.1		10.0	18.9		mg/L		98	80 - 120
Fluoride	0.067	J	2.00	2.15		mg/L		104	80 - 120
Sulfate	2.0		10.0	11.7		mg/L		98	80 - 120

Lab Sample ID: 680-235651-1 MSD
Matrix: Water
Analysis Batch: 781811

Client Sample ID: MCI-GWA-1B
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chloride	9.1		10.0	18.7		mg/L		96	80 - 120	1	15
Fluoride	0.067	J	2.00	2.12		mg/L		103	80 - 120	2	15
Sulfate	2.0		10.0	11.5		mg/L		95	80 - 120	2	15

Method: 6020B - Metals (ICP/MS)

Lab Sample ID: MB 680-781602/1-A
Matrix: Water
Analysis Batch: 781782

Client Sample ID: Method Blank
Prep Type: Total Recoverable
Prep Batch: 781602

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Barium	<0.00089		0.010	0.00089	mg/L		06/02/23 05:02	06/02/23 17:29	1
Beryllium	<0.00020		0.0025	0.00020	mg/L		06/02/23 05:02	06/02/23 17:29	1
Boron	<0.022		0.080	0.022	mg/L		06/02/23 05:02	06/02/23 17:29	1

Eurofins Savannah

QC Sample Results

Client: Southern Company
Project/Site: Plant McIntosh Landfill 3

Job ID: 680-235651-1

Method: 6020B - Metals (ICP/MS) (Continued)

Lab Sample ID: MB 680-781602/1-A
Matrix: Water
Analysis Batch: 781782

Client Sample ID: Method Blank
Prep Type: Total Recoverable
Prep Batch: 781602

Analyte	MB	MB	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
Calcium	<0.14		0.50	0.14	mg/L		06/02/23 05:02	06/02/23 17:29	1
Chromium	<0.0012		0.0020	0.0012	mg/L		06/02/23 05:02	06/02/23 17:29	1
Cobalt	<0.00022		0.0025	0.00022	mg/L		06/02/23 05:02	06/02/23 17:29	1
Copper	<0.0011		0.0020	0.0011	mg/L		06/02/23 05:02	06/02/23 17:29	1
Lead	0.000320	J	0.0010	0.00021	mg/L		06/02/23 05:02	06/02/23 17:29	1
Vanadium	<0.00063		0.0020	0.00063	mg/L		06/02/23 05:02	06/02/23 17:29	1
Zinc	<0.0028		0.0050	0.0028	mg/L		06/02/23 05:02	06/02/23 17:29	1

Lab Sample ID: LCS 680-781602/2-A
Matrix: Water
Analysis Batch: 781782

Client Sample ID: Lab Control Sample
Prep Type: Total Recoverable
Prep Batch: 781602

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Beryllium	0.0500	0.0515		mg/L		103	80 - 120
Boron	0.200	0.199		mg/L		99	80 - 120
Calcium	5.00	5.62		mg/L		112	80 - 120
Chromium	0.100	0.107		mg/L		107	80 - 120
Cobalt	0.0500	0.0549		mg/L		110	80 - 120
Copper	0.100	0.107		mg/L		107	80 - 120
Lead	0.500	0.521		mg/L		104	80 - 120
Vanadium	0.100	0.105		mg/L		105	80 - 120
Zinc	0.100	0.106		mg/L		106	80 - 120

Lab Sample ID: 680-235658-C-1-E MS
Matrix: Water
Analysis Batch: 781782

Client Sample ID: Matrix Spike
Prep Type: Total Recoverable
Prep Batch: 781602

Analyte	Sample	Sample	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
	Result	Qualifier							
Barium	0.018		0.100	0.125		mg/L		107	75 - 125
Beryllium	<0.00020		0.0500	0.0513		mg/L		103	75 - 125
Boron	<0.022		0.200	0.209		mg/L		104	75 - 125
Calcium	1.9		5.00	7.64		mg/L		115	75 - 125
Chromium	<0.0012		0.100	0.108		mg/L		108	75 - 125
Cobalt	0.0014	J	0.0500	0.0567		mg/L		111	75 - 125
Copper	0.0012	J	0.100	0.111		mg/L		110	75 - 125
Lead	0.00079	J	0.500	0.530		mg/L		106	75 - 125
Vanadium	<0.00063		0.100	0.105		mg/L		105	75 - 125
Zinc	0.14		0.100	0.260		mg/L		121	75 - 125

Lab Sample ID: 680-235658-C-1-F MSD
Matrix: Water
Analysis Batch: 781782

Client Sample ID: Matrix Spike Duplicate
Prep Type: Total Recoverable
Prep Batch: 781602

Analyte	Sample	Sample	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
	Result	Qualifier									
Barium	0.018		0.100	0.129		mg/L		111	75 - 125	3	20
Beryllium	<0.00020		0.0500	0.0516		mg/L		103	75 - 125	0	20
Boron	<0.022		0.200	0.211		mg/L		105	75 - 125	1	20
Calcium	1.9		5.00	7.73		mg/L		116	75 - 125	1	20

Eurofins Savannah

QC Sample Results

Client: Southern Company
Project/Site: Plant McIntosh Landfill 3

Job ID: 680-235651-1

Method: 6020B - Metals (ICP/MS) (Continued)

Lab Sample ID: 680-235658-C-1-F MSD

Matrix: Water

Analysis Batch: 781782

Client Sample ID: Matrix Spike Duplicate

Prep Type: Total Recoverable

Prep Batch: 781602

Analyte	Sample	Sample	Spike	MSD	MSD	Unit	D	%Rec	%Rec	RPD	RPD
	Result	Qualifier	Added	Result	Qualifier				Limits		Limit
Chromium	<0.0012		0.100	0.110		mg/L		110	75 - 125	2	20
Cobalt	0.0014	J	0.0500	0.0573		mg/L		112	75 - 125	1	20
Copper	0.0012	J	0.100	0.113		mg/L		112	75 - 125	2	20
Lead	0.00079	J	0.500	0.555		mg/L		111	75 - 125	5	20
Vanadium	<0.00063		0.100	0.104		mg/L		104	75 - 125	1	20
Zinc	0.14		0.100	0.262		mg/L		123	75 - 125	1	20

Method: 2540C-2011 - Total Dissolved Solids (Dried at 180 °C)

Lab Sample ID: MB 680-781490/1

Matrix: Water

Analysis Batch: 781490

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB	MB	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
Total Dissolved Solids	<10		10	10	mg/L			06/01/23 12:53	1

Lab Sample ID: LCS 680-781490/2

Matrix: Water

Analysis Batch: 781490

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS	LCS	Unit	D	%Rec	%Rec
		Result	Qualifier				Limits
Total Dissolved Solids	2410	2390		mg/L		99	80 - 120

Lab Sample ID: LCSD 680-781490/3

Matrix: Water

Analysis Batch: 781490

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Analyte	Spike Added	LCSD	LCSD	Unit	D	%Rec	%Rec	RPD	RPD
		Result	Qualifier				Limits	Limit	
Total Dissolved Solids	2410	2390		mg/L		99	80 - 120	0	25

Lab Sample ID: 680-235629-A-3 DU

Matrix: Water

Analysis Batch: 781490

Client Sample ID: Duplicate

Prep Type: Total/NA

Analyte	Sample	Sample	DU	DU	Unit	D	RPD	RPD
	Result	Qualifier	Result	Qualifier				Limit
Total Dissolved Solids	250		246		mg/L		0	5

Lab Sample ID: 680-235629-A-6 DU

Matrix: Water

Analysis Batch: 781490

Client Sample ID: Duplicate

Prep Type: Total/NA

Analyte	Sample	Sample	DU	DU	Unit	D	RPD	RPD
	Result	Qualifier	Result	Qualifier				Limit
Total Dissolved Solids	240		234		mg/L		2	5

QC Association Summary

Client: Southern Company
 Project/Site: Plant McIntosh Landfill 3

Job ID: 680-235651-1

HPLC/IC

Analysis Batch: 781811

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-235651-1	MCI-GWA-1B	Total/NA	Water	300.0-1993 R2.1	
680-235651-2	MCI-GWC-1A	Total/NA	Water	300.0-1993 R2.1	
680-235651-3	MCI-GWC-5A	Total/NA	Water	300.0-1993 R2.1	
680-235651-4	MCI-GWC-6A	Total/NA	Water	300.0-1993 R2.1	
680-235651-5	MCI-LF3-FD-05	Total/NA	Water	300.0-1993 R2.1	
680-235651-6	MCI-LF3-FB-09	Total/NA	Water	300.0-1993 R2.1	
680-235651-7	MCI-LF3-EB-11	Total/NA	Water	300.0-1993 R2.1	
MB 680-781811/33	Method Blank	Total/NA	Water	300.0-1993 R2.1	
LCS 680-781811/34	Lab Control Sample	Total/NA	Water	300.0-1993 R2.1	
LCSD 680-781811/35	Lab Control Sample Dup	Total/NA	Water	300.0-1993 R2.1	
680-235651-1 MS	MCI-GWA-1B	Total/NA	Water	300.0-1993 R2.1	
680-235651-1 MSD	MCI-GWA-1B	Total/NA	Water	300.0-1993 R2.1	

Metals

Prep Batch: 781602

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-235651-1	MCI-GWA-1B	Total Recoverable	Water	3005A	
680-235651-2	MCI-GWC-1A	Total Recoverable	Water	3005A	
680-235651-3	MCI-GWC-5A	Total Recoverable	Water	3005A	
680-235651-4	MCI-GWC-6A	Total Recoverable	Water	3005A	
680-235651-5	MCI-LF3-FD-05	Total Recoverable	Water	3005A	
680-235651-6	MCI-LF3-FB-09	Total Recoverable	Water	3005A	
680-235651-7	MCI-LF3-EB-11	Total Recoverable	Water	3005A	
MB 680-781602/1-A	Method Blank	Total Recoverable	Water	3005A	
LCS 680-781602/2-A	Lab Control Sample	Total Recoverable	Water	3005A	
680-235658-C-1-E MS	Matrix Spike	Total Recoverable	Water	3005A	
680-235658-C-1-F MSD	Matrix Spike Duplicate	Total Recoverable	Water	3005A	

Analysis Batch: 781782

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-235651-1	MCI-GWA-1B	Total Recoverable	Water	6020B	781602
680-235651-2	MCI-GWC-1A	Total Recoverable	Water	6020B	781602
680-235651-3	MCI-GWC-5A	Total Recoverable	Water	6020B	781602
680-235651-4	MCI-GWC-6A	Total Recoverable	Water	6020B	781602
680-235651-5	MCI-LF3-FD-05	Total Recoverable	Water	6020B	781602
680-235651-6	MCI-LF3-FB-09	Total Recoverable	Water	6020B	781602
680-235651-7	MCI-LF3-EB-11	Total Recoverable	Water	6020B	781602
MB 680-781602/1-A	Method Blank	Total Recoverable	Water	6020B	781602
LCS 680-781602/2-A	Lab Control Sample	Total Recoverable	Water	6020B	781602
680-235658-C-1-E MS	Matrix Spike	Total Recoverable	Water	6020B	781602
680-235658-C-1-F MSD	Matrix Spike Duplicate	Total Recoverable	Water	6020B	781602

General Chemistry

Analysis Batch: 781490

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-235651-1	MCI-GWA-1B	Total/NA	Water	2540C-2011	
680-235651-2	MCI-GWC-1A	Total/NA	Water	2540C-2011	
680-235651-3	MCI-GWC-5A	Total/NA	Water	2540C-2011	
680-235651-4	MCI-GWC-6A	Total/NA	Water	2540C-2011	
680-235651-5	MCI-LF3-FD-05	Total/NA	Water	2540C-2011	

Eurofins Savannah

QC Association Summary

Client: Southern Company
Project/Site: Plant McIntosh Landfill 3

Job ID: 680-235651-1

General Chemistry (Continued)

Analysis Batch: 781490 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-235651-6	MCI-LF3-FB-09	Total/NA	Water	2540C-2011	
680-235651-7	MCI-LF3-EB-11	Total/NA	Water	2540C-2011	
MB 680-781490/1	Method Blank	Total/NA	Water	2540C-2011	
LCS 680-781490/2	Lab Control Sample	Total/NA	Water	2540C-2011	
LCSD 680-781490/3	Lab Control Sample Dup	Total/NA	Water	2540C-2011	
680-235629-A-3 DU	Duplicate	Total/NA	Water	2540C-2011	
680-235629-A-6 DU	Duplicate	Total/NA	Water	2540C-2011	

Field Service / Mobile Lab

Analysis Batch: 781584

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-235651-1	MCI-GWA-1B	Total/NA	Water	Field Sampling	
680-235651-2	MCI-GWC-1A	Total/NA	Water	Field Sampling	
680-235651-3	MCI-GWC-5A	Total/NA	Water	Field Sampling	
680-235651-4	MCI-GWC-6A	Total/NA	Water	Field Sampling	

Lab Chronicle

Client: Southern Company
Project/Site: Plant McIntosh Landfill 3

Job ID: 680-235651-1

Client Sample ID: MCI-GWA-1B

Lab Sample ID: 680-235651-1

Date Collected: 05/30/23 15:10

Matrix: Water

Date Received: 06/01/23 08:05

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	300.0-1993 R2.1		1	5 mL	5 mL	781811	06/04/23 17:23	UI	EET SAV
Instrument ID: CICK										
Total Recoverable	Prep	3005A			25 mL	125 mL	781602	06/02/23 05:02	RR	EET SAV
Total Recoverable	Analysis	6020B		1			781782	06/02/23 17:49	BWR	EET SAV
Instrument ID: ICPMSC										
Total/NA	Analysis	2540C-2011		1	200 mL	200 mL	781490	06/01/23 12:53	PG	EET SAV
Instrument ID: NOEQUIP										
Total/NA	Analysis	Field Sampling		1			781584	05/30/23 15:10	T1C	EET SAV
Instrument ID: NOEQUIP										

Client Sample ID: MCI-GWC-1A

Lab Sample ID: 680-235651-2

Date Collected: 05/31/23 10:40

Matrix: Water

Date Received: 06/01/23 08:05

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	300.0-1993 R2.1		1	5 mL	5 mL	781811	06/04/23 18:01	UI	EET SAV
Instrument ID: CICK										
Total Recoverable	Prep	3005A			25 mL	125 mL	781602	06/02/23 05:02	RR	EET SAV
Total Recoverable	Analysis	6020B		1			781782	06/02/23 17:53	BWR	EET SAV
Instrument ID: ICPMSC										
Total/NA	Analysis	2540C-2011		1	200 mL	200 mL	781490	06/01/23 12:53	PG	EET SAV
Instrument ID: NOEQUIP										
Total/NA	Analysis	Field Sampling		1			781584	05/31/23 10:40	T1C	EET SAV
Instrument ID: NOEQUIP										

Client Sample ID: MCI-GWC-5A

Lab Sample ID: 680-235651-3

Date Collected: 05/31/23 12:45

Matrix: Water

Date Received: 06/01/23 08:05

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	300.0-1993 R2.1		1	5 mL	5 mL	781811	06/04/23 18:14	UI	EET SAV
Instrument ID: CICK										
Total Recoverable	Prep	3005A			25 mL	125 mL	781602	06/02/23 05:02	RR	EET SAV
Total Recoverable	Analysis	6020B		1			781782	06/02/23 17:57	BWR	EET SAV
Instrument ID: ICPMSC										
Total/NA	Analysis	2540C-2011		1	200 mL	200 mL	781490	06/01/23 12:53	PG	EET SAV
Instrument ID: NOEQUIP										
Total/NA	Analysis	Field Sampling		1			781584	05/31/23 12:45	T1C	EET SAV
Instrument ID: NOEQUIP										

Lab Chronicle

Client: Southern Company
 Project/Site: Plant McIntosh Landfill 3

Job ID: 680-235651-1

Client Sample ID: MCI-GWC-6A

Lab Sample ID: 680-235651-4

Date Collected: 05/31/23 09:20

Matrix: Water

Date Received: 06/01/23 08:05

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	300.0-1993 R2.1		1	5 mL	5 mL	781811	06/04/23 18:27	UI	EET SAV
Instrument ID: CICK										
Total Recoverable	Prep	3005A			25 mL	125 mL	781602	06/02/23 05:02	RR	EET SAV
Total Recoverable	Analysis	6020B		1			781782	06/02/23 18:01	BWR	EET SAV
Instrument ID: ICPMSC										
Total/NA	Analysis	2540C-2011		1	200 mL	200 mL	781490	06/01/23 12:53	PG	EET SAV
Instrument ID: NOEQUIP										
Total/NA	Analysis	Field Sampling		1			781584	05/31/23 09:20	T1C	EET SAV
Instrument ID: NOEQUIP										

Client Sample ID: MCI-LF3-FD-05

Lab Sample ID: 680-235651-5

Date Collected: 05/31/23 00:00

Matrix: Water

Date Received: 06/01/23 08:05

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	300.0-1993 R2.1		1	5 mL	5 mL	781811	06/04/23 18:39	UI	EET SAV
Instrument ID: CICK										
Total Recoverable	Prep	3005A			25 mL	125 mL	781602	06/02/23 05:02	RR	EET SAV
Total Recoverable	Analysis	6020B		1			781782	06/02/23 18:05	BWR	EET SAV
Instrument ID: ICPMSC										
Total/NA	Analysis	2540C-2011		1	200 mL	200 mL	781490	06/01/23 12:53	PG	EET SAV
Instrument ID: NOEQUIP										

Client Sample ID: MCI-LF3-FB-09

Lab Sample ID: 680-235651-6

Date Collected: 05/31/23 13:00

Matrix: Water

Date Received: 06/01/23 08:05

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	300.0-1993 R2.1		1	5 mL	5 mL	781811	06/04/23 18:52	UI	EET SAV
Instrument ID: CICK										
Total Recoverable	Prep	3005A			25 mL	125 mL	781602	06/02/23 05:02	RR	EET SAV
Total Recoverable	Analysis	6020B		1			781782	06/02/23 18:18	BWR	EET SAV
Instrument ID: ICPMSC										
Total/NA	Analysis	2540C-2011		1	200 mL	200 mL	781490	06/01/23 12:53	PG	EET SAV
Instrument ID: NOEQUIP										

Client Sample ID: MCI-LF3-EB-11

Lab Sample ID: 680-235651-7

Date Collected: 05/31/23 11:00

Matrix: Water

Date Received: 06/01/23 08:05

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	300.0-1993 R2.1		1	5 mL	5 mL	781811	06/04/23 19:04	UI	EET SAV
Instrument ID: CICK										
Total Recoverable	Prep	3005A			25 mL	125 mL	781602	06/02/23 05:02	RR	EET SAV
Total Recoverable	Analysis	6020B		1			781782	06/02/23 18:22	BWR	EET SAV
Instrument ID: ICPMSC										

Eurofins Savannah

Lab Chronicle

Client: Southern Company
Project/Site: Plant McIntosh Landfill 3

Job ID: 680-235651-1

Client Sample ID: MCI-LF3-EB-11

Lab Sample ID: 680-235651-7

Date Collected: 05/31/23 11:00

Matrix: Water

Date Received: 06/01/23 08:05

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	2540C-2011		1	200 mL	200 mL	781490	06/01/23 12:53	PG	EET SAV

Laboratory References:

EET SAV = Eurofins Savannah, 5102 LaRoche Avenue, Savannah, GA 31404, TEL (912)354-7858



Accreditation/Certification Summary

Client: Southern Company
Project/Site: Plant McIntosh Landfill 3

Job ID: 680-235651-1

Laboratory: Eurofins Savannah

The accreditations/certifications listed below are applicable to this report.

Authority	Program	Identification Number	Expiration Date
Florida	NELAP	E87052	06-30-23
Georgia	State	E87052	06-30-23

- 1
- 2
- 3
- 4
- 5
- 6
- 7
- 8
- 9
- 10
- 11
- 12

Method Summary

Client: Southern Company
Project/Site: Plant McIntosh Landfill 3

Job ID: 680-235651-1

Method	Method Description	Protocol	Laboratory
300.0-1993 R2.1	Anions, Ion Chromatography	MCAWW	EET SAV
6020B	Metals (ICP/MS)	SW846	EET SAV
2540C-2011	Total Dissolved Solids (Dried at 180 °C)	SM	EET SAV
Field Sampling	Field Sampling	EPA	EET SAV
3005A	Preparation, Total Recoverable or Dissolved Metals	SW846	EET SAV

Protocol References:

EPA = US Environmental Protection Agency

MCAWW = "Methods For Chemical Analysis Of Water And Wastes", EPA-600/4-79-020, March 1983 And Subsequent Revisions.

SM = "Standard Methods For The Examination Of Water And Wastewater"

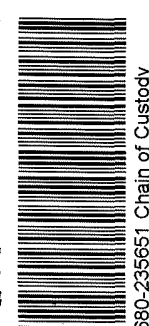
SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

Laboratory References:

EET SAV = Eurofins Savannah, 5102 LaRoche Avenue, Savannah, GA 31404, TEL (912)354-7858

Chain of Custody Record

Client Information					Sampler: ACC D. Johnson		Lab PM: Fuller, David		Carrier Tracking No(s):		COC No			
Client Contact: SCS Contacts					Phone: 770-594-5948		E-Mail: david.fuller@et.eurofinsus.com				Page: 1 of 1			
Company: GA Power					Analysis Requested							Job #:		
Address: 241 Ralph McGill Blvd SE					Due Date Requested						Preservation Codes			
City: Atlanta					TAT Requested (days) Standard						A HCL M Hexane B NaOH N None C - Zn Acetate O - AsNaO2 D Nitric Acid P Na2O4S E NaHSO4 Q Na2SO3 F MeOH R - Na2S2O3 G Amchlor S H2SO4 H Ascorbic Acid T TSP Dodecahydrate I Ice U Acetone J DI Water V MCAA K EDTA W pH 4-5 L EDA Z other (specify)			
State Zip: GA, 30308					Lab Project #: 68027732						Other:			
Phone: 404-506-7116(Tel)					PO #:						Task Code MCI-CCR-OTH-2023-05-30			
Email: SCS Contacts / ACC Contacts					Project #:						Special Instructions/Note Full APP III + 8 State Metals			
Project Name: Plant McIntosh Landfill 3					SSOW#:									
Site: Georgia														
Sample Identification					Sample Date (mm/dd/yy)		Sample Time (hhmm)		Sample Type (C=Comp, G=grab)		Matrix (WG=ground water WS=surface water WQ=quality control)			
											Field Filtered Sample (Yes or No)			
											Perform M/MS/SD (Yes or No)			
											APP III Metals: B, Ca			
											Cl, F, SO ₄ & TDS			
											(EPA 300.0 & SM 2540C)			
											Custom State 8 Permit Metals (EPA 6020)			
											Ba, Be, Cr, Co, Cu, Pb, V, Zn			
											Total Number of containers			
											D I D			
MCI-GWA-1B					05/30/23		1510		G WG		N N ✓ ✓ ✓			
MCI-GWC-1A					05/31/23		1040		G WG		N N ✓ ✓ ✓			
MCI-GWC-5A					05/31/23		1245		G WG		N N ✓ ✓ ✓			
MCI-GWC-6A					05/31/23		0920		G WG		N N ✓ ✓ ✓			
MCI-LF3-FD-05					—		—		G WG		N N ✓ ✓ ✓			
MCI-LF3-FB-09					05/31/23		1300		G WQ		N N ✓ ✓ ✓			
MCI-LF3-EB-11					05/31/23		1100		G WQ		N N ✓ ✓ ✓			
											pH = 5.89			
											pH = 4.31			
											pH = 4.62			
											pH = 5.07			
											pH = —			
											pH = —			
											pH = —			
Possible Hazard Identification					Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)									
<input type="checkbox"/> Non-Hazard <input type="checkbox"/> Flammable <input type="checkbox"/> Irritant <input type="checkbox"/> Poison B <input checked="" type="checkbox"/> Unknown <input type="checkbox"/> Radiological					<input type="checkbox"/> Return To Client <input checked="" type="checkbox"/> Disposal By Lab <input type="checkbox"/> Archive For _____ Months									
Deliverable Requested I, II, III, IV, Other (specify)					Special Instructions/QC Requirements State Permit Metals barium, beryllium, chromium, cobalt, copper, lead, vanadium, zinc									
Empty Kit Relinquished by					Date		Time		Method of Shipment:					
Relinquished by <i>[Signature]</i>					Date/Time 6/1/23 / 0805		Company ACC		Received by <i>[Signature]</i>		Date/Time 5/30/23 0805		Company EUROFINS	
Relinquished by					Date/Time		Company		Received by		Date/Time		Company	
Relinquished by					Date/Time		Company		Received by		Date/Time		Company	
Custody Seals Intact. <input type="checkbox"/> Yes <input type="checkbox"/> No					Custody Seal No		Cooler Temperature(s) °C and Other Remarks. 12/18							



Login Sample Receipt Checklist

Client: Southern Company

Job Number: 680-235651-1

Login Number: 235651

List Number: 1

Creator: Munro, Caroline

List Source: Eurofins Savannah

Question	Answer	Comment
Radioactivity wasn't checked or is <=/ background as measured by a survey meter.	N/A	
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	N/A	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	N/A	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	

LEVEL 2A LABORATORY DATA VALIDATIONS

McIntosh Inactive Landfill No. 3

Background Event N=7

May 2023

Georgia Power Company – McIntosh Landfill 3

Quality Control Review of Analytical Data – May 2023

This narrative presents results of the Quality Control (QC) data review performed on analytical data submitted by Eurofins Environment Testing America, Savannah for groundwater samples collected at McIntosh Landfill 3 (LF3) between May 30, 2023 and May 31, 2023. 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.

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 permit-required state metals. Test methods included Inductively Coupled Plasma – Mass Spectrometry (US EPA Method 6020B), Determination of Inorganic Anions (US EPA Method 300.0), and Solids in Water (Standard Methods 2540C).

Data were reviewed in accordance with the US EPA 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.

Field Precision: Field goals for precision were met.

Accuracy: Laboratory goals for accuracy were met.

Detection Limits: Project goals for detection limits were met.

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

Holding Times: Holding time requirements were met.

QUALIFICATIONS

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

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

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

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

- Certain lead results on work order 680-235651-1 were qualified as non-detect (ND) due to the analyte being detected at a similar concentration in an associated blank sample. As shown in Table 2, when the original sample result was below the reporting limit (RL), the new method detection limit (MDL) was raised to the sample result as part of the qualification process.

Atlantic Coast Consulting, Inc. reviewed the laboratory data from McIntosh LF3 sampled between May 30, 2023 and May 31, 2023 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

¹US EPA, 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

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

TABLE 1
 Georgia Power Company – McIntosh LF3
 Sample Summary Table – May 2023

SDG	Field Identification	Collection Date	Lab Identification	Matrix	QC Samples	Analyses		
						Metals (6020B)	Anions (300.0)	TDS (SM 2540C)
235651	MCI-GWA-1B	05/30/23	680-235651-1	WG		X	X	X
235651	MCI-GWC-1A	05/31/23	680-235651-2	WG		X	X	X
235651	MCI-GWC-5A	05/31/23	680-235651-3	WG		X	X	X
235651	MCI-GWC-6A	05/31/23	680-235651-4	WG		X	X	X
235651	MCI-LF3-FD-05	05/31/23	680-235651-5	WG	FD (MCI-GWC-6A)	X	X	X
235651	MCI-LF3-FB-09	05/31/23	680-235651-6	WQ	FB	X	X	X
235651	MCI-LF3-EB-11	05/31/23	680-235651-7	WQ	EB	X	X	X

Abbreviations:
 EB – Equipment Blank
 FB – Field Blank
 FD – Field Duplicate
 WG – Groundwater
 QC – Quality Control
 SDG – Sample Delivery Group
 TDS – Total Dissolved Solids
 WQ – Water Quality Control

TABLE 2
 Georgia Power Company – McIntosh LF3
 Qualifier Summary Table – May 2023

SDG	Field Identification	Constituent	New RL	New MDL or MDC	Qualifier	Reason
235651	MCI-GWA-1B	Lead		0.00043	ND	Blank detection
235651	MCI-GWC-1A	Lead		0.00048	ND	Blank detection
235651	MCI-GWC-5A	Lead		0.00061	ND	Blank detection
235651	MCI-GWC-6A	Lead		0.00038	ND	Blank detection
235651	MCI-LF3-FD-05	Lead		0.00039	ND	Blank detection
235651	MCI-LF3-FB-09	Lead		0.00043	ND	Blank detection
235651	MCI-LF3-EB-11	Lead		0.00043	ND	Blank detection

Abbreviations:

LCS/LCSD – Lab Control Sample / Lab Control Sample Duplicate
 MDC – Minimum Detectable Concentration
 MDL – Method Detection Limit
 MS/MSD – Matrix Spike / Matrix Spike Duplicate
 RL – Reporting Limit
 RPD – Relative Percent Difference
 SDG – Sample Delivery Group
 TDS – Total Dissolved Solids

Qualifiers:

J – Estimated Result
 ND – Non-Detect Result

Low-Flow Test Report:

Test Date / Time: 5/30/2023 2:45:18 PM

Project: Plant McIntosh LF 3

Operator Name: D. Johnson

Location Name: GWA-1B Well Diameter: 2 in Casing Type: PVC Screen Length: 10 ft Top of Screen: 48.53 ft Total Depth: 58.53 ft Initial Depth to Water: 22.17 ft	Pump Type: Peri. Pump. Tubing Type: Poly Pump Intake From TOC: 53.53 ft Estimated Total Volume Pumped: 6.25 liter Flow Cell Volume: 90 ml Final Flow Rate: 250 ml/min Final Draw Down: 1.68 in	Instrument Used: Aqua TROLL 400 Serial Number: 714293
---	---	--

Test Notes:

Sunny, 80 degrees F. sample time 1510.

Low-Flow Readings:

Date Time	Elapsed Time	pH	Temperature	Specific Conductivity	RDO Concentration	Turbidity	ORP	Depth to Water	Flow
		+/- 0.1	+/- 10	+/- 5 %	+/- 10 %	+/- 5	+/- 100	+/- 0.3	
5/30/2023 2:45 PM	00:00	7.76 pH	27.38 °C	70.02 µS/cm	6.50 mg/L	1.19 NTU	87.2 mV	22.17 ft	250.00 ml/min
5/30/2023 2:50 PM	05:00	6.52 pH	21.94 °C	54.93 µS/cm	6.73 mg/L	0.95 NTU	73.4 mV	22.28 ft	250.00 ml/min
5/30/2023 2:55 PM	10:00	5.99 pH	21.52 °C	53.14 µS/cm	6.78 mg/L	0.58 NTU	69.2 mV	22.31 ft	250.00 ml/min
5/30/2023 3:00 PM	15:00	5.90 pH	21.28 °C	52.18 µS/cm	6.81 mg/L	0.58 NTU	67.3 mV	22.31 ft	250.00 ml/min
5/30/2023 3:05 PM	20:00	5.89 pH	21.45 °C	51.28 µS/cm	6.74 mg/L	0.53 NTU	66.3 mV	22.31 ft	250.00 ml/min
5/30/2023 3:10 PM	25:00	5.89 pH	21.28 °C	51.48 µS/cm	6.70 mg/L	0.46 NTU	64.3 mV	22.31 ft	250.00 ml/min

Samples

Sample ID:	Description:
------------	--------------

Low-Flow Test Report:

Test Date / Time: 5/31/2023 10:10:06 AM

Project: Plant McIntosh LF 3

Operator Name: D. Johnson

Location Name: GWC-1A Well Diameter: 2 in Casing Type: PVC Screen Length: 10 ft Top of Screen: 37.37 ft Total Depth: 47.37 ft Initial Depth to Water: 22.45 ft	Pump Type: Peri. Pump Tubing Type: Poly Pump Intake From TOC: 42.37 ft Estimated Total Volume Pumped: 4.5 liter Flow Cell Volume: 90 ml Final Flow Rate: 150 ml/min Final Draw Down: 6.72 in	Instrument Used: Aqua TROLL 400 Serial Number: 714293
---	---	--

Test Notes:

Partly cloudy, 74 degrees F. Sample time 1040.

EB-11 here.

Low-Flow Readings:

Date Time	Elapsed Time	pH	Temperature	Specific Conductivity	RDO Concentration	Turbidity	ORP	Depth to Water	Flow
		+/- 0.1	+/- 10	+/- 5 %	+/- 10 %	+/- 5	+/- 100	+/- 0.3	
5/31/2023 10:10 AM	00:00	4.64 pH	23.16 °C	91.11 µS/cm	3.38 mg/L	1.59 NTU	71.7 mV	22.45 ft	150.00 ml/min
5/31/2023 10:15 AM	05:00	4.29 pH	21.19 °C	91.75 µS/cm	0.77 mg/L	1.23 NTU	71.3 mV	22.91 ft	150.00 ml/min
5/31/2023 10:20 AM	10:00	4.30 pH	20.70 °C	92.73 µS/cm	0.67 mg/L	1.03 NTU	70.3 mV	23.01 ft	150.00 ml/min
5/31/2023 10:25 AM	15:00	4.30 pH	21.01 °C	91.65 µS/cm	0.61 mg/L	0.87 NTU	70.3 mV	23.01 ft	150.00 ml/min
5/31/2023 10:30 AM	20:00	4.30 pH	21.02 °C	91.90 µS/cm	0.59 mg/L	0.77 NTU	70.1 mV	23.01 ft	150.00 ml/min
5/31/2023 10:35 AM	25:00	4.30 pH	21.03 °C	91.81 µS/cm	0.54 mg/L	0.47 NTU	70.1 mV	23.01 ft	150.00 ml/min
5/31/2023 10:40 AM	30:00	4.31 pH	20.91 °C	91.68 µS/cm	0.54 mg/L	0.28 NTU	70.1 mV	23.01 ft	150.00 ml/min

Samples

Sample ID:	Description:
------------	--------------

Low-Flow Test Report:

Test Date / Time: 5/31/2023 12:10:06 PM

Project: Plant McIntosh LF 3

Operator Name: D. Johnson

Location Name: GWC-5A Well Diameter: 2 in Casing Type: PVC Screen Length: 10 ft Top of Screen: 32.6 ft Total Depth: 42.6 ft Initial Depth to Water: 24.21 ft	Pump Type: Peri. Pump Tubing Type: Poly Pump Intake From TOC: 37.6 ft Estimated Total Volume Pumped: 5.25 liter Flow Cell Volume: 90 ml Final Flow Rate: 150 ml/min Final Draw Down: 5.16 in	Instrument Used: Aqua TROLL 400 Serial Number: 714293
---	---	--

Test Notes:

Sunny, 77 degrees F. Sample time 1245.

FB-09 here.

Low-Flow Readings:

Date Time	Elapsed Time	pH	Temperature	Specific Conductivity	RDO Concentration	Turbidity	ORP	Depth to Water	Flow
		+/- 0.1	+/- 10	+/- 5 %	+/- 10 %	+/- 5	+/- 100	+/- 0.3	
5/31/2023 12:10 PM	00:00	4.83 pH	22.95 °C	35.70 µS/cm	2.62 mg/L	1.02 NTU	70.0 mV	24.21 ft	150.00 ml/min
5/31/2023 12:15 PM	05:00	4.59 pH	21.91 °C	35.48 µS/cm	1.27 mg/L	0.69 NTU	69.9 mV	24.62 ft	150.00 ml/min
5/31/2023 12:20 PM	10:00	4.62 pH	21.43 °C	35.46 µS/cm	1.05 mg/L	0.61 NTU	70.3 mV	24.64 ft	150.00 ml/min
5/31/2023 12:25 PM	15:00	4.62 pH	21.38 °C	35.48 µS/cm	1.06 mg/L	0.51 NTU	70.6 mV	24.64 ft	150.00 ml/min
5/31/2023 12:30 PM	20:00	4.61 pH	21.42 °C	35.77 µS/cm	1.14 mg/L	0.43 NTU	71.0 mV	24.64 ft	150.00 ml/min
5/31/2023 12:35 PM	25:00	4.62 pH	21.38 °C	35.48 µS/cm	1.02 mg/L	0.33 NTU	71.4 mV	24.64 ft	150.00 ml/min
5/31/2023 12:40 PM	30:00	4.61 pH	21.49 °C	35.55 µS/cm	1.02 mg/L	0.34 NTU	71.7 mV	24.64 ft	150.00 ml/min
5/31/2023 12:45 PM	35:00	4.62 pH	21.35 °C	35.51 µS/cm	0.99 mg/L	0.33 NTU	72.2 mV	24.64 ft	150.00 ml/min

Samples

Sample ID:	Description:
------------	--------------

Low-Flow Test Report:

Test Date / Time: 5/31/2023 8:55:49 AM

Project: Plant McIntosh LF 3

Operator Name: D. Johnson

Location Name: GWC-6A Well Diameter: 2 in Casing Type: PVC Screen Length: 10 ft Top of Screen: 32.43 ft Total Depth: 42.43 ft Initial Depth to Water: 24.17 ft	Pump Type: Peri. Pump Tubing Type: Poly Pump Intake From TOC: 37.43 ft Estimated Total Volume Pumped: 5 liter Flow Cell Volume: 90 ml Final Flow Rate: 200 ml/min Final Draw Down: 4.8 in	Instrument Used: Aqua TROLL 400 Serial Number: 714293
---	--	--

Test Notes:

Sunny, 70 degrees F. Sample time 0920.

FD-05 here.

Low-Flow Readings:

Date Time	Elapsed Time	pH	Temperature	Specific Conductivity	RDO Concentration	Turbidity	ORP	Depth to Water	Flow
		+/- 0.1	+/- 10	+/- 5 %	+/- 10 %	+/- 5	+/- 100	+/- 0.3	
5/31/2023 8:55 AM	00:00	7.03 pH	22.37 °C	213.44 µS/cm	5.39 mg/L	2.37 NTU	104.6 mV	24.17 ft	200.00 ml/min
5/31/2023 9:00 AM	05:00	5.07 pH	20.61 °C	82.09 µS/cm	0.80 mg/L	1.53 NTU	79.9 mV	24.53 ft	200.00 ml/min
5/31/2023 9:05 AM	10:00	5.05 pH	20.09 °C	73.27 µS/cm	0.75 mg/L	1.13 NTU	76.0 mV	24.57 ft	200.00 ml/min
5/31/2023 9:10 AM	15:00	5.05 pH	20.34 °C	71.40 µS/cm	0.57 mg/L	1.14 NTU	73.6 mV	24.57 ft	200.00 ml/min
5/31/2023 9:15 AM	20:00	5.06 pH	20.29 °C	71.22 µS/cm	0.55 mg/L	0.75 NTU	71.7 mV	24.57 ft	200.00 ml/min
5/31/2023 9:20 AM	25:00	5.07 pH	20.22 °C	70.50 µS/cm	0.61 mg/L	0.56 NTU	70.5 mV	24.57 ft	200.00 ml/min

Samples

Sample ID:	Description:
------------	--------------



Daily Instrument Calibration Log

SITE: Plant Branch McIntosh
 TECHNICIAN: D. JOHNSON
 WATER LEVEL: Soinist
 WATER LEVEL S/N: 530984

INSTRUMENT S/N: 714293
 INSTRUMENT TYPE: AquaTroll
 CAL. SOLUTION/S: ID: pH4 LOT #: 2611670 EXP. DATE: 08/24
ID: pH7 LOT #: 262304 EXP. DATE: 09/23
ID: pH10 LOT #: 16F458 EXP. DATE: 06/23
ID: conduct. LOT #: 09/23 EXP. DATE: 262642
ID: ORP 240 LOT #: 262207 EXP. DATE: 7 June 2023
 ID: _____ LOT #: _____ EXP. DATE: _____
 ID: _____ LOT #: _____ EXP. DATE: _____

Midday pH check
 Must be less than .10
 (6.90-7.10 range)
 Recalibrate if not within range

Calibration Date: 5/30/23

RDO: 100% sat. = 1538 99.43 **Midday pH check**
 PH: 4.00 = 3.99 7.00 = 7.04 10.00 = 10.9 7.0 = N/A
 PH Recal (if needed): 4.00 = _____ 7.00 = _____ 10.00 = _____ 7.0 = _____ post recal check
 CONDUCTIVITY: 1417 = 1538
 ORP (mV) 240 = 238

Calibration Date: 5/31/23

RDO: 100% sat. = 102.26% **Midday pH check**
 PH: 4.00 = 4.22 7.00 = 7.10 10.00 = 10.07 7.0 = 7.08
 PH Recal (if needed): 4.00 = _____ 7.00 = _____ 10.00 = _____ 7.0 = _____ post recal check
 CONDUCTIVITY: 1417 = 1243
 ORP (mV) 240 = 234

Calibration Date:

RDO: 100% sat. = _____ **Midday pH check**
 PH: 4.00 = _____ 7.00 = _____ 10.00 = _____ 7.0 = _____
 PH Recal (if needed): 4.00 = _____ 7.00 = _____ 10.00 = _____ 7.0 = _____ post recal check
 CONDUCTIVITY: _____ = _____
 ORP (mV) _____ = _____

Calibration Date:

RDO: 100% sat. = _____ **Midday pH check**
 PH: 4.00 = _____ 7.00 = _____ 10.00 = _____ 7.0 = _____
 PH Recal (if needed): 4.00 = _____ 7.00 = _____ 10.00 = _____ 7.0 = _____ post recal check
 CONDUCTIVITY: _____ = _____
 ORP (mV) _____ = _____

Calibration Date:

RDO: 100% sat. = _____ **Midday pH check**
 PH: 4.00 = _____ 7.00 = _____ 10.00 = _____ 7.0 = _____
 PH Recal (if needed): 4.00 = _____ 7.00 = _____ 10.00 = _____ 7.0 = _____ post recal check
 CONDUCTIVITY: _____ = _____
 ORP (mV) _____ = _____



Daily Instrument Calibration Log

SITE: Plant McIntosh
TECHNICIAN: D. JOHNSON

INSTRUMENT S/N: 16040C049767
INSTRUMENT TYPE: Hach 2100Q
CAL. SOLUTION: 0 NTU - LOT # _____ EXP. DATE: DI water
10 NTU - LOT # A2122 EXP. DATE: 08/23
20 NTU - LOT # A2124 EXP. DATE: 08/23

Calibration Date: 5/30/23

Calibration Solution	Instrument Reading	
0.0	<u>0.49</u>	NTU
10.0	<u>10.9</u>	NTU
20.0	<u>18.5</u>	NTU

Calibration Date: 5/31/23

Calibration Solution	Instrument Reading	
0.0	<u>0.50</u>	NTU
10.0	<u>10.4</u>	NTU
20.0	<u>20.5</u>	NTU

Calibration Date:

Calibration Solution	Instrument Reading	
0.0		NTU
10.0		NTU
20.0		NTU

Calibration Date:

Calibration Solution	Instrument Reading	
0.0		NTU
10.0		NTU
20.0		NTU

Calibration Date:

Calibration Solution	Instrument Reading	
0.0		NTU
10.0		NTU
20.0		NTU

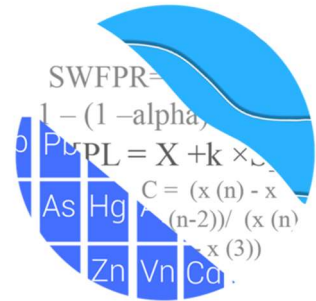
Calibration Date:

Calibration Solution	Instrument Reading	
0.0		NTU
10.0		NTU
20.0		NTU

APPENDIX C

STATISTICAL ANALYSIS REPORTS

GROUNDWATER STATS CONSULTING



February 28, 2023

Southern Company Services
Attn: Ms. Kristen Jurinko
241 Ralph McGill Blvd NE, Bin 10160
Atlanta, Georgia 30308

Re: Plant McIntosh Landfill #3
Statistical Analysis – August/September 2022 Semi-Annual Sample Event

Dear Ms. Jurinko,

Groundwater Stats Consulting, formerly the statistical consulting division of Sanitas Technologies, is pleased to provide the statistical analysis of the August/September 2022 semi-annual sample event for Georgia Power Company's Plant McIntosh Landfill #3. The analysis complies with the federal rule for the Disposal of Coal Combustion Residuals (CCR) from Electric Utilities (CCR Rule, 2015), the Georgia Environmental Protection Division (EPD) Rules for Solid Waste Management Chapter 391-3-4-.10 and follows the United States Environmental Protection Agency (USEPA) Unified Guidance (2009).

Sampling at the majority of wells began for the CCR program in 2016, and for the state program in accordance with the Georgia EPD's Solid Waste Permit in 1999. Semi-annual sampling for select constituents has been performed for several years in accordance with the Georgia Department of Natural Resources, Environmental Protection Division groundwater monitoring regulations; and all available data from upgradient wells are screened in this report.

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

- **Upgradient wells:** GWA-1A, GWA-1B, GWA-2B, GWA-3A, GWA-4, GWA-5, and GWA-7A
- **Downgradient wells:** GWC-1, GWC-1A, GWC-2, GWC-4A, GWC-5, GWC-5A, GWC-6, and GWC-6A

A minimum of 8 samples have been collected at each of the wells with few exceptions. New upgradient well GWA-1B and new downgradient wells GWC-1A, GWC-5A, and GWC-6A currently have been sampled a total of 4 times for Appendix I and III constituents. Therefore, data from downgradient wells GWC-1A, GWC-5A, and GWC-6A are included on time series and box plots, and will be statistically analyzed when a minimum of 8 sample are available. Since upgradient well GWA-1B has a minimum of four samples, data from this well are incorporated into the interwell prediction limits which are constructed from pooled upgradient well data, but has insufficient samples for the trend test analyses.

Data were sent electronically to Groundwater Stats Consulting, and the statistical analysis was reviewed by Andrew Collins, Project Manager of Groundwater Stats Consulting. The analysis is prepared according to the recommended interwell statistical methodology as presented in the USEPA Unified Guidance. The original screening was conducted in the Fall 2017 by Dr. Kirk Cameron, PhD Statistician with MacStat Consulting, primary author of the USEPA Unified Guidance. During the initial screening both intrawell and interwell statistical methods were recommended. However, further studies conducted by Southern Company Services of waste placement with respect to when groundwater monitoring began suggested interwell methods for all constituents should be used as the will be the primary statistical method.

The following constituents were evaluated in this report:

- **CCR Appendix III** - boron, calcium, chloride, fluoride, pH, sulfate, and TDS
- **Georgia EPD Appendix I** - barium, beryllium, chromium, cobalt, copper, lead, vanadium, and zinc

Note that when there are no detections present in downgradient wells for a given constituent, statistical analyses are not required. A list of downgradient Appendix I well/constituent pairs with 100% non-detects follows this letter.

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.

Time series plots for reported CCR Appendix III and Georgia EPD Appendix I constituents are provided for all wells (Figure A). Additionally, a separate section of box plots is included for all constituents at upgradient and downgradient wells (Figure B). The time series plots are used to initially screen for suspected outliers and trends, while the box plots provide visual representation of variation within individual wells and between all wells.

Data at all wells were evaluated during the initial background screening in 2019, as described below, for the following: 1) outliers; 2) trends; 3) most appropriate statistical method for constituents based on site characteristics of groundwater data upgradient of the facility; and 4) eligibility of downgradient wells when intrawell statistical methods are recommended. Because groundwater sampling began after waste was placed, interwell prediction limits were determined to be the most appropriate statistical method. Power curves were provided during previous analyses and demonstrated that the interwell methods for all constituents comply with the USEPA Unified Guidance recommendations as discussed below. The EPA suggests the selected statistical method should provide at least 55% power at 3 standard deviations or at least 80% power at 4 standard deviations. Power curves were based on the following statistical methods:

CCR Appendix III Constituents:

- Semi-Annual Sampling
- Interwell Prediction Limits with 1-of-2 resample plan
- # Constituents: 7
- # Downgradient wells: 5

Georgia EPD Appendix I Constituents:

- Semi-Annual Sampling
- Interwell Prediction Limits with 1-of-2 resample plan
- # Constituents: 8
- # Downgradient wells: 5

Summary of Statistical Methods – All Constituents

Based on the earlier evaluation discussed above, the following methods were selected:

- Interwell prediction limits, combined with a 1-of-2 resample plan for boron, calcium, chloride, fluoride, pH, sulfate, and TDS
- Interwell prediction limits, combined with a 1-of-2 resample plan for barium, beryllium, chromium, cobalt, copper, lead, vanadium, and zinc

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. 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. Non-detects are handled as follows:

- No statistical analyses are required on wells and analytes containing 100% non-detects (USEPA Unified Guidance, 2009, Chapter 6).
- When data contain <15% non-detects in background, simple substitution of one-half the reporting limit is utilized in the statistical analysis. The reporting limit utilized for non-detects is the most recent practical quantification limit (PQL) as reported by the laboratory.
- When data contain between 15-50% non-detects, the Kaplan-Meier non-detect adjustment is applied to the background data. This technique adjusts the mean and standard deviation of the historical concentrations to account for concentrations below the reporting limit.
- Nonparametric prediction limits are used on data containing greater than 50% non-detects.

Natural systems continuously evolve due to physical changes made to the environment. Examples include capping a landfill, paving areas near a well, or lining a drainage channel to prevent erosion. Periodic updating of background statistical limits will be necessary to accommodate these types of changes. In the interwell case, newer data are included during each sample event after careful screening for new outliers in upgradient wells. While this step was not necessary, in some cases the earlier portion of data may require deselection prior to construction of limits in order 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, and a summary of any truncated records will be provided.

Summary of Initial Background Screening (2019) – All Constituents

Outlier Analysis

The original background screening for the CCR and Georgia EPD state programs was conducted in 2019 and the results were submitted at that time. Several values were identified and flagged as outliers in both upgradient and downgradient wells for all constituents. Suspected outliers at upgradient wells for all constituents were formally tested using Tukey's box plot method and, when confirmed, flagged in the computer database with "o" and deselected prior to construction of statistical limits.

When suspected outliers were evaluated using the Tukey box plot method, several outliers were identified. As a general rule, when the most recent values are identified as outliers,

values are not flagged in the database (except in cases where statistical limits would be elevated) as the concentrations may represent a possible trend. If future values do not remain at similar concentrations, these values will be flagged as outliers and deselected. Note that for some well/constituent pairs, the test identified multiple outliers. However, in many of those cases, only the highest value(s) were flagged as outliers as the remaining values were similar to other measurements within the same well or neighboring wells. In other cases, the test did not identify an outlier; however, the highest measurement(s) did not appear to represent the population and were flagged as outliers in the database to establish limits that are conservative from a regulatory perspective.

During this analysis, only upgradient well data were re-evaluated through time series graphs for new outliers, or extreme values in background that would result in limits that are not conservative from a regulatory perspective, prior to construction of interwell prediction limits. Values flagged in downgradient wells from previous analyses remain flagged but have no impact on calculations of interwell prediction limits. No new outliers were flagged during this analysis. When any values are flagged in the database as outliers, they are plotted in a disconnected and lighter symbol on the time series graph. The accompanying data pages display the flagged value in a lighter font as well. A list of all flagged values follows this letter (Figure C).

Seasonality

No 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

Time series plots were also used to identify any visually trending patterns in upgradient well data. None were observed except for increasing low-level concentrations of chloride in upgradient well GWA-3A. However, because the more recent observations are similar to those historically reported in upgradient well GWA-5, no adjustments were required at this time.

In the future, if statistically significant increasing or decreasing trends are identified in the pooled upgradient well data, 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, earlier data are evaluated to determine whether earlier concentration levels are significantly different than current reported concentrations and will be deselected as necessary. A list of the adjusted background date ranges will be provided if this step is required in future analyses.

Statistical Analysis of Appendix III Parameters – August/September 2022

Interwell Prediction Limits

For all Appendix III parameters, interwell prediction limits combined with a 1-of-2 resample plan were constructed using all upgradient historical data through September 2022 (Figure D). Data from upgradient wells were screened for new outliers, and no new measurements were flagged. The reported measurement of 0.51 mg/L for fluoride in upgradient well GWA-1B was slightly higher than historical measurements but well below the Groundwater Protection Standard of 4.0 mg/L. This measurement will be re-evaluated during the next statistical analysis. Interwell prediction limits pool upgradient well data to establish a background limit for an individual constituent. The August/September 2022 sample from each downgradient well is compared to the background limit to determine whether initial exceedances are present.

In the event of an initial exceedance of compliance well data, the 1-of-2 resample plan allows for collection of one additional sample to determine whether the initial exceedance is confirmed. If the resample falls within the statistical limit, the initial exceedance is considered to be a false positive result; therefore, no exceedance is noted, and no further action is necessary. If no resample is collected, the original result is considered a confirmed exceedance. Summary tables of the Appendix III prediction limits follow this letter. No exceedances were noted for Appendix III parameters; therefore, no further action was required.

Trend Test Evaluation

When data from downgradient well/constituent pairs are found to exceed their respective prediction limit, however, data will be further evaluated using the Sen's Slope/Mann Kendall trend test along with upgradient wells for the same constituents. 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 natural variability in groundwater unrelated to practices at the site. Typically, when changes in concentrations are present upgradient of the facility, it is an indication of naturally changing groundwater quality.

Statistical Analysis of Georgia EPD Appendix I Parameters – August/September 2022

Interwell Prediction Limits

Interwell prediction limits, combined with a 1-of-2 resample plan, were constructed using all available data from upgradient wells through September 2022 (Figure E). As previously discussed, no statistical analyses were included for downgradient well/constituent pairs containing 100% non-detects. A summary table of the prediction limits and exceedances follows this letter, along with the complete prediction limits results. The following prediction limit exceedances were noted for the Appendix I parameters:

- Barium: GWC-5

Trend Test Evaluation

As mentioned above, 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 along with upgradient wells for the same constituents (Figure F). Upgradient wells, with the exception of GWA-1B which does not have sufficient samples for trend test analyses, were included in the trend analyses for all parameters found to exceed their prediction limit in downgradient wells. The following statistically significant trends were identified:

Increasing

- Barium: GWA-3A, GWA-4 (both upgradient), and GWC-5

Decreasing

- Barium: GWA-1A (upgradient)

Typically, when changes in concentrations are present upgradient of the facility, it is an indication of naturally changing groundwater quality. A summary of the trend test results follows this letter.

Thank you for the opportunity to assist you in the statistical analysis of groundwater quality for McIntosh Landfill #3. If you have any questions or comments, please feel free to contact us.

For Groundwater Stats Consulting,



Kristina Rayner
Senior Statistician



Andrew Collins
Project Manager

100% Non-Detects

Analysis Run 11/3/2022 12:52 PM View: PLs Interwell State
Plant McIntosh Client: Southern Company Data: McIntosh LF 3 CCR

Beryllium (mg/L)
GWC-5A

Chromium (mg/L)
GWC-1A, GWC-6A

Copper (mg/L)
GWC-4A, GWC-5A, GWC-6A

Lead (mg/L)
GWC-1A, GWC-4A, GWC-6A

Vanadium (mg/L)
GWC-5A, GWC-6A

Interwell Prediction Limit Appendix III - All Results (No Significant)

Plant McIntosh Client: Southern Company Data: McIntosh LF 3 CCR Printed 11/5/2022, 3:56 PM

Constituent	Well	Upper Lim.	Lower Lim.	Date	Observ.	Sig.	Bg	NBg	Mean	Std. Dev.	%NDs	ND Adj.	Transform	Alpha	Method
Boron (mg/L)	GWC-1	1.9	n/a	8/31/2022	0.08ND	No	93	n/a	n/a	43.01	n/a	n/a	n/a	0.0002244	NP Inter (normality) 1 of 2
Boron (mg/L)	GWC-2	1.9	n/a	8/30/2022	0.085	No	93	n/a	n/a	43.01	n/a	n/a	n/a	0.0002244	NP Inter (normality) 1 of 2
Boron (mg/L)	GWC-4A	1.9	n/a	8/30/2022	0.08ND	No	93	n/a	n/a	43.01	n/a	n/a	n/a	0.0002244	NP Inter (normality) 1 of 2
Boron (mg/L)	GWC-5	1.9	n/a	9/1/2022	0.08ND	No	93	n/a	n/a	43.01	n/a	n/a	n/a	0.0002244	NP Inter (normality) 1 of 2
Boron (mg/L)	GWC-6	1.9	n/a	8/31/2022	0.08ND	No	93	n/a	n/a	43.01	n/a	n/a	n/a	0.0002244	NP Inter (normality) 1 of 2
Calcium (mg/L)	GWC-1	20	n/a	8/31/2022	0.31J	No	92	n/a	n/a	0	n/a	n/a	n/a	0.0002288	NP Inter (normality) 1 of 2
Calcium (mg/L)	GWC-2	20	n/a	8/30/2022	1.4	No	92	n/a	n/a	0	n/a	n/a	n/a	0.0002288	NP Inter (normality) 1 of 2
Calcium (mg/L)	GWC-4A	20	n/a	8/30/2022	0.39J	No	92	n/a	n/a	0	n/a	n/a	n/a	0.0002288	NP Inter (normality) 1 of 2
Calcium (mg/L)	GWC-5	20	n/a	9/1/2022	5.2	No	92	n/a	n/a	0	n/a	n/a	n/a	0.0002288	NP Inter (normality) 1 of 2
Calcium (mg/L)	GWC-6	20	n/a	8/31/2022	1.5	No	92	n/a	n/a	0	n/a	n/a	n/a	0.0002288	NP Inter (normality) 1 of 2
Chloride (mg/L)	GWC-1	26	n/a	8/31/2022	12	No	93	n/a	n/a	0	n/a	n/a	n/a	0.0002244	NP Inter (normality) 1 of 2
Chloride (mg/L)	GWC-2	26	n/a	8/30/2022	4.8	No	93	n/a	n/a	0	n/a	n/a	n/a	0.0002244	NP Inter (normality) 1 of 2
Chloride (mg/L)	GWC-4A	26	n/a	8/30/2022	4.8	No	93	n/a	n/a	0	n/a	n/a	n/a	0.0002244	NP Inter (normality) 1 of 2
Chloride (mg/L)	GWC-5	26	n/a	9/1/2022	7	No	93	n/a	n/a	0	n/a	n/a	n/a	0.0002244	NP Inter (normality) 1 of 2
Chloride (mg/L)	GWC-6	26	n/a	8/31/2022	7.3	No	93	n/a	n/a	0	n/a	n/a	n/a	0.0002244	NP Inter (normality) 1 of 2
Fluoride (mg/L)	GWC-1	0.51	n/a	8/31/2022	0.1ND	No	93	n/a	n/a	58.06	n/a	n/a	n/a	0.0002244	NP Inter (NDs) 1 of 2
Fluoride (mg/L)	GWC-2	0.51	n/a	8/30/2022	0.1ND	No	93	n/a	n/a	58.06	n/a	n/a	n/a	0.0002244	NP Inter (NDs) 1 of 2
Fluoride (mg/L)	GWC-4A	0.51	n/a	8/30/2022	0.1ND	No	93	n/a	n/a	58.06	n/a	n/a	n/a	0.0002244	NP Inter (NDs) 1 of 2
Fluoride (mg/L)	GWC-5	0.51	n/a	9/1/2022	0.1ND	No	93	n/a	n/a	58.06	n/a	n/a	n/a	0.0002244	NP Inter (NDs) 1 of 2
Fluoride (mg/L)	GWC-6	0.51	n/a	8/31/2022	0.1ND	No	93	n/a	n/a	58.06	n/a	n/a	n/a	0.0002244	NP Inter (NDs) 1 of 2
pH (S.U.)	GWC-1	5.834	4.041	8/31/2022	4.69	No	173	4.937	0.5015	0	None	No	0.000752	Param Inter 1 of 2	
pH (S.U.)	GWC-2	5.834	4.041	8/30/2022	4.96	No	173	4.937	0.5015	0	None	No	0.000752	Param Inter 1 of 2	
pH (S.U.)	GWC-4A	5.834	4.041	8/30/2022	4.71	No	173	4.937	0.5015	0	None	No	0.000752	Param Inter 1 of 2	
pH (S.U.)	GWC-5	5.834	4.041	9/1/2022	4.29	No	173	4.937	0.5015	0	None	No	0.000752	Param Inter 1 of 2	
pH (S.U.)	GWC-6	5.834	4.041	8/31/2022	4.85	No	173	4.937	0.5015	0	None	No	0.000752	Param Inter 1 of 2	
Sulfate (mg/L)	GWC-1	110	n/a	8/31/2022	1ND	No	93	n/a	n/a	30.11	n/a	n/a	n/a	0.0002244	NP Inter (normality) 1 of 2
Sulfate (mg/L)	GWC-2	110	n/a	8/30/2022	1.1	No	93	n/a	n/a	30.11	n/a	n/a	n/a	0.0002244	NP Inter (normality) 1 of 2
Sulfate (mg/L)	GWC-4A	110	n/a	8/30/2022	1ND	No	93	n/a	n/a	30.11	n/a	n/a	n/a	0.0002244	NP Inter (normality) 1 of 2
Sulfate (mg/L)	GWC-5	110	n/a	9/1/2022	1ND	No	93	n/a	n/a	30.11	n/a	n/a	n/a	0.0002244	NP Inter (normality) 1 of 2
Sulfate (mg/L)	GWC-6	110	n/a	8/31/2022	0.41J	No	93	n/a	n/a	30.11	n/a	n/a	n/a	0.0002244	NP Inter (normality) 1 of 2
Total Dissolved Solids (mg/L)	GWC-1	166.2	n/a	8/31/2022	37	No	92	7.688	2.879	2.174	None	sqrt(x)	0.001504	Param Inter 1 of 2	
Total Dissolved Solids (mg/L)	GWC-2	166.2	n/a	8/30/2022	38	No	92	7.688	2.879	2.174	None	sqrt(x)	0.001504	Param Inter 1 of 2	
Total Dissolved Solids (mg/L)	GWC-4A	166.2	n/a	8/30/2022	21	No	92	7.688	2.879	2.174	None	sqrt(x)	0.001504	Param Inter 1 of 2	
Total Dissolved Solids (mg/L)	GWC-5	166.2	n/a	9/1/2022	140	No	92	7.688	2.879	2.174	None	sqrt(x)	0.001504	Param Inter 1 of 2	
Total Dissolved Solids (mg/L)	GWC-6	166.2	n/a	8/31/2022	61	No	92	7.688	2.879	2.174	None	sqrt(x)	0.001504	Param Inter 1 of 2	

Interwell Prediction Limit Appendix I - Significant Results

Plant McIntosh Client: Southern Company Data: McIntosh LF 3 CCR Printed 11/5/2022, 4:02 PM

<u>Constituent</u>	<u>Well</u>	<u>Upper Lim.</u>	<u>Lower Lim.</u>	<u>Date</u>	<u>Observ.</u>	<u>Sig. Bg.N</u>	<u>Bg Mean</u>	<u>Std. Dev.</u>	<u>%NDs ND Adj.</u>	<u>Transform</u>	<u>Alpha</u>	<u>Method</u>
Barium (mg/L)	GWC-5	0.33	n/a	9/1/2022	0.36	Yes 277	n/a	n/a	0 n/a	n/a	0.0000492	NP Inter (normality) 1 of 2

Interwell Prediction Limit Appendix I - All Results

Plant McIntosh Client: Southern Company Data: McIntosh LF 3 CCR Printed 11/5/2022, 4:02 PM

Constituent	Well	Upper Lim.	Lower Lim.	Date	Observ.	Sig. Bg N	Bg Mean	Std. Dev.	%NDs	ND Adj.	Transform	Alpha	Method
Barium (mg/L)	GWC-1	0.33	n/a	8/31/2022	0.03	No 277	n/a	n/a	0	n/a	n/a	0.0000492	NP Inter (normality) 1 of 2
Barium (mg/L)	GWC-2	0.33	n/a	8/30/2022	0.058	No 277	n/a	n/a	0	n/a	n/a	0.0000492	NP Inter (normality) 1 of 2
Barium (mg/L)	GWC-4A	0.33	n/a	8/30/2022	0.035	No 277	n/a	n/a	0	n/a	n/a	0.0000492	NP Inter (normality) 1 of 2
Barium (mg/L)	GWC-5	0.33	n/a	9/1/2022	0.36	Yes 277	n/a	n/a	0	n/a	n/a	0.0000492	NP Inter (normality) 1 of 2
Barium (mg/L)	GWC-6	0.33	n/a	8/31/2022	0.043	No 277	n/a	n/a	0	n/a	n/a	0.0000492	NP Inter (normality) 1 of 2
Beryllium (mg/L)	GWC-1	0.0041	n/a	8/31/2022	0.0025ND	No 277	n/a	n/a	73.29	n/a	n/a	0.0000492	NP Inter (NDs) 1 of 2
Beryllium (mg/L)	GWC-2	0.0041	n/a	8/30/2022	0.00038J	No 277	n/a	n/a	73.29	n/a	n/a	0.0000492	NP Inter (NDs) 1 of 2
Beryllium (mg/L)	GWC-4A	0.0041	n/a	8/30/2022	0.0025ND	No 277	n/a	n/a	73.29	n/a	n/a	0.0000492	NP Inter (NDs) 1 of 2
Beryllium (mg/L)	GWC-5	0.0041	n/a	9/1/2022	0.0018J	No 277	n/a	n/a	73.29	n/a	n/a	0.0000492	NP Inter (NDs) 1 of 2
Beryllium (mg/L)	GWC-6	0.0041	n/a	8/31/2022	0.00049J	No 277	n/a	n/a	73.29	n/a	n/a	0.0000492	NP Inter (NDs) 1 of 2
Chromium (mg/L)	GWC-1	0.097	n/a	8/31/2022	0.002ND	No 276	n/a	n/a	40.22	n/a	n/a	0.0000492	NP Inter (normality) 1 of 2
Chromium (mg/L)	GWC-2	0.097	n/a	8/30/2022	0.005	No 276	n/a	n/a	40.22	n/a	n/a	0.0000492	NP Inter (normality) 1 of 2
Chromium (mg/L)	GWC-4A	0.097	n/a	8/30/2022	0.002ND	No 276	n/a	n/a	40.22	n/a	n/a	0.0000492	NP Inter (normality) 1 of 2
Chromium (mg/L)	GWC-5	0.097	n/a	9/1/2022	0.014	No 276	n/a	n/a	40.22	n/a	n/a	0.0000492	NP Inter (normality) 1 of 2
Chromium (mg/L)	GWC-6	0.097	n/a	8/31/2022	0.002ND	No 276	n/a	n/a	40.22	n/a	n/a	0.0000492	NP Inter (normality) 1 of 2
Cobalt (mg/L)	GWC-1	0.017	n/a	8/31/2022	0.00036J	No 276	n/a	n/a	57.61	n/a	n/a	0.0000492	NP Inter (NDs) 1 of 2
Cobalt (mg/L)	GWC-2	0.017	n/a	8/30/2022	0.0012J	No 276	n/a	n/a	57.61	n/a	n/a	0.0000492	NP Inter (NDs) 1 of 2
Cobalt (mg/L)	GWC-4A	0.017	n/a	8/30/2022	0.00048J	No 276	n/a	n/a	57.61	n/a	n/a	0.0000492	NP Inter (NDs) 1 of 2
Cobalt (mg/L)	GWC-5	0.017	n/a	9/1/2022	0.012	No 276	n/a	n/a	57.61	n/a	n/a	0.0000492	NP Inter (NDs) 1 of 2
Cobalt (mg/L)	GWC-6	0.017	n/a	8/31/2022	0.00058J	No 276	n/a	n/a	57.61	n/a	n/a	0.0000492	NP Inter (NDs) 1 of 2
Copper (mg/L)	GWC-1	0.0055	n/a	8/31/2022	0.002ND	No 251	n/a	n/a	84.86	n/a	n/a	0.0000492	NP Inter (NDs) 1 of 2
Copper (mg/L)	GWC-2	0.0055	n/a	8/30/2022	0.002ND	No 251	n/a	n/a	84.86	n/a	n/a	0.0000492	NP Inter (NDs) 1 of 2
Copper (mg/L)	GWC-5	0.0055	n/a	9/1/2022	0.0012J	No 251	n/a	n/a	84.86	n/a	n/a	0.0000492	NP Inter (NDs) 1 of 2
Copper (mg/L)	GWC-6	0.0055	n/a	8/31/2022	0.002ND	No 251	n/a	n/a	84.86	n/a	n/a	0.0000492	NP Inter (NDs) 1 of 2
Lead (mg/L)	GWC-1	0.044	n/a	8/31/2022	0.001ND	No 277	n/a	n/a	78.7	n/a	n/a	0.0000492	NP Inter (NDs) 1 of 2
Lead (mg/L)	GWC-2	0.044	n/a	8/30/2022	0.001ND	No 277	n/a	n/a	78.7	n/a	n/a	0.0000492	NP Inter (NDs) 1 of 2
Lead (mg/L)	GWC-5	0.044	n/a	9/1/2022	0.00031J	No 277	n/a	n/a	78.7	n/a	n/a	0.0000492	NP Inter (NDs) 1 of 2
Lead (mg/L)	GWC-6	0.044	n/a	8/31/2022	0.001ND	No 277	n/a	n/a	78.7	n/a	n/a	0.0000492	NP Inter (NDs) 1 of 2
Vanadium (mg/L)	GWC-1	0.11	n/a	8/31/2022	0.0011	No 255	n/a	n/a	71.37	n/a	n/a	0.0000492	NP Inter (NDs) 1 of 2
Vanadium (mg/L)	GWC-2	0.11	n/a	8/30/2022	0.001ND	No 255	n/a	n/a	71.37	n/a	n/a	0.0000492	NP Inter (NDs) 1 of 2
Vanadium (mg/L)	GWC-4A	0.11	n/a	8/30/2022	0.001ND	No 255	n/a	n/a	71.37	n/a	n/a	0.0000492	NP Inter (NDs) 1 of 2
Vanadium (mg/L)	GWC-5	0.11	n/a	9/1/2022	0.001ND	No 255	n/a	n/a	71.37	n/a	n/a	0.0000492	NP Inter (NDs) 1 of 2
Vanadium (mg/L)	GWC-6	0.11	n/a	8/31/2022	0.0013	No 255	n/a	n/a	71.37	n/a	n/a	0.0000492	NP Inter (NDs) 1 of 2
Zinc (mg/L)	GWC-1	0.11	n/a	8/31/2022	0.005ND	No 256	n/a	n/a	29.3	n/a	n/a	0.0000492	NP Inter (normality) 1 of 2
Zinc (mg/L)	GWC-2	0.11	n/a	8/30/2022	0.012	No 256	n/a	n/a	29.3	n/a	n/a	0.0000492	NP Inter (normality) 1 of 2
Zinc (mg/L)	GWC-4A	0.11	n/a	8/30/2022	0.0046J	No 256	n/a	n/a	29.3	n/a	n/a	0.0000492	NP Inter (normality) 1 of 2
Zinc (mg/L)	GWC-5	0.11	n/a	9/1/2022	0.035	No 256	n/a	n/a	29.3	n/a	n/a	0.0000492	NP Inter (normality) 1 of 2
Zinc (mg/L)	GWC-6	0.11	n/a	8/31/2022	0.0073	No 256	n/a	n/a	29.3	n/a	n/a	0.0000492	NP Inter (normality) 1 of 2

Trend Tests (Appendix I Prediction Limit Exceedance) - All Results

Plant McIntosh Client: Southern Company Data: McIntosh LF 3 CCR Printed 11/5/2022, 4:13 PM

<u>Constituent</u>	<u>Well</u>	<u>Slope</u>	<u>Calc.</u>	<u>Critical</u>	<u>Sig.</u>	<u>N</u>	<u>%NDs</u>	<u>Normality</u>	<u>Xform</u>	<u>Alpha</u>	<u>Method</u>
Barium (mg/L)	GWA-1A (bg)	-0.002091	-4.785	-2.58	Yes	53	0	n/a	n/a	0.01	NP
Barium (mg/L)	GWA-2B (bg)	-0.0006992	-9	-30	No	10	0	n/a	n/a	0.01	NP
Barium (mg/L)	GWA-3A (bg)	0.00149	7.317	2.58	Yes	55	0	n/a	n/a	0.01	NP
Barium (mg/L)	GWA-4 (bg)	0.0009886	6.411	2.58	Yes	54	0	n/a	n/a	0.01	NP
Barium (mg/L)	GWA-5 (bg)	0.0006216	0.9536	2.58	No	53	0	n/a	n/a	0.01	NP
Barium (mg/L)	GWA-7A (bg)	-0.01546	-26	-30	No	10	0	n/a	n/a	0.01	NP
Barium (mg/L)	GWC-5	0.01113	2.842	2.58	Yes	53	0	n/a	n/a	0.01	NP

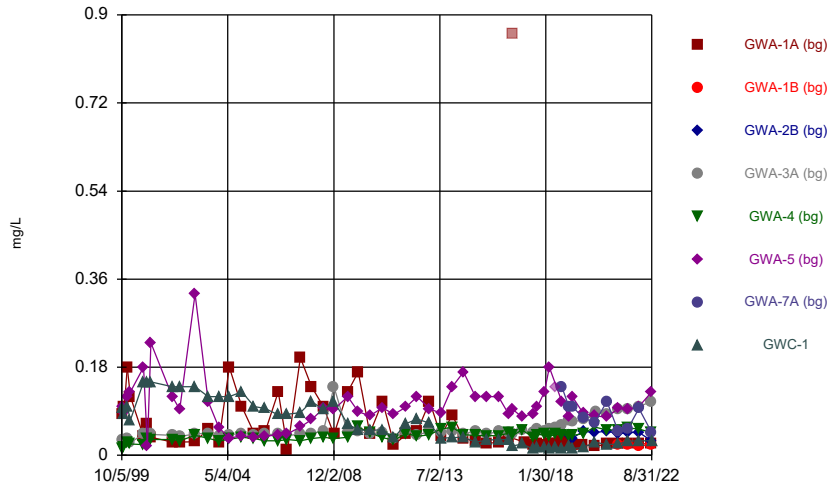
Trend Tests (Appendix I Prediction Limit Exceedance) - Significant Results

Plant McIntosh Client: Southern Company Data: McIntosh LF 3 CCR Printed 11/5/2022, 4:13 PM

<u>Constituent</u>	<u>Well</u>	<u>Slope</u>	<u>Calc.</u>	<u>Critical</u>	<u>Sig.</u>	<u>N</u>	<u>%NDs</u>	<u>Normality</u>	<u>Xform</u>	<u>Alpha</u>	<u>Method</u>
Barium (mg/L)	GWA-1A (bg)	-0.002091	-4.785	-2.58	Yes	53	0	n/a	n/a	0.01	NP
Barium (mg/L)	GWA-3A (bg)	0.00149	7.317	2.58	Yes	55	0	n/a	n/a	0.01	NP
Barium (mg/L)	GWA-4 (bg)	0.0009886	6.411	2.58	Yes	54	0	n/a	n/a	0.01	NP
Barium (mg/L)	GWC-5	0.01113	2.842	2.58	Yes	53	0	n/a	n/a	0.01	NP

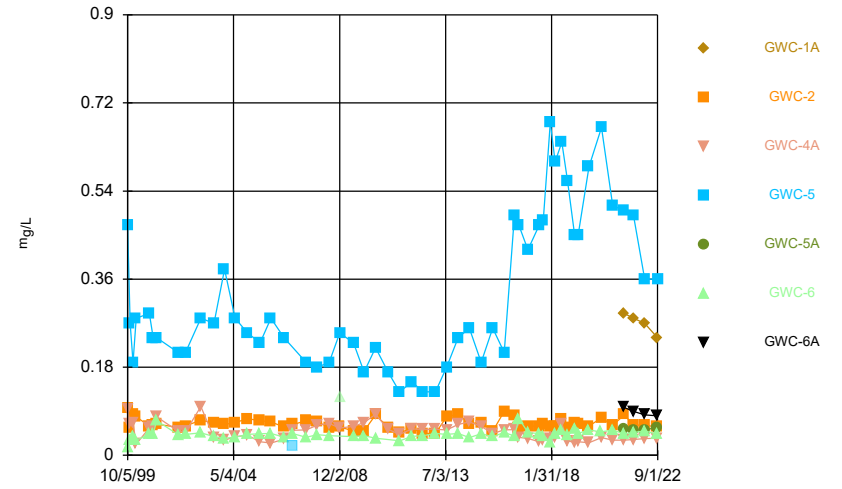
FIGURE A.

Time Series



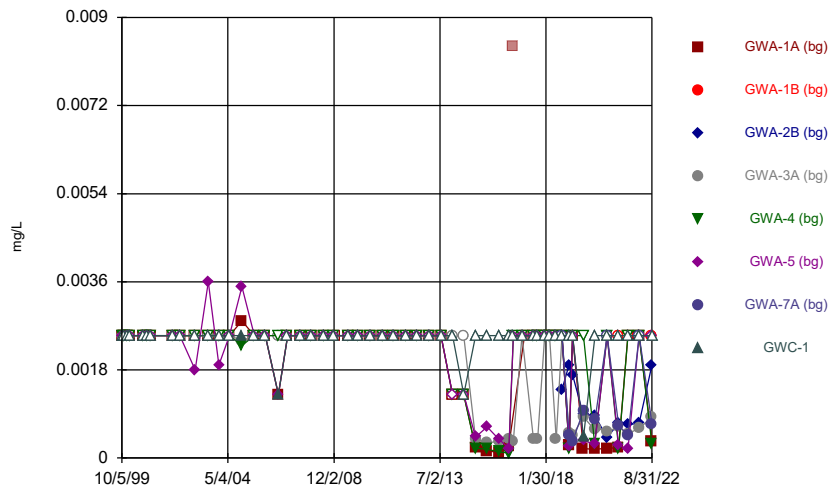
Constituent: Barium Analysis Run 11/3/2022 1:03 PM View: Descriptive
Plant McIntosh Client: Southern Company Data: McIntosh LF 3 CCR

Time Series



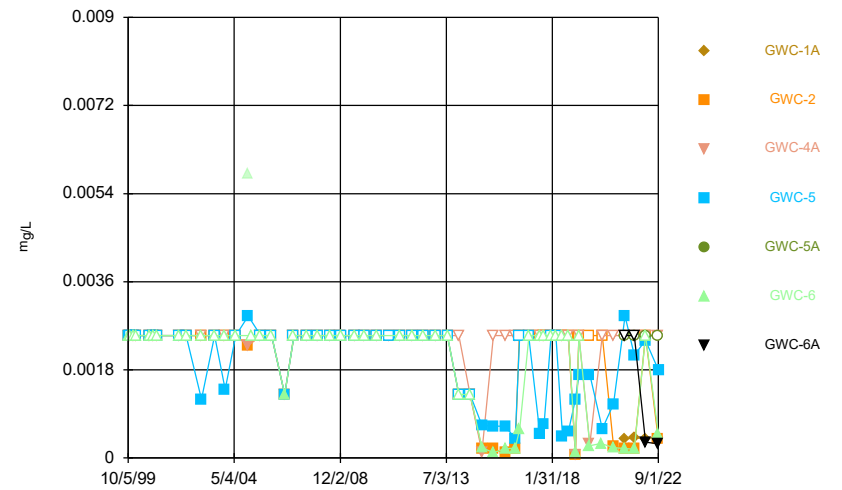
Constituent: Barium Analysis Run 11/3/2022 1:03 PM View: Descriptive
Plant McIntosh Client: Southern Company Data: McIntosh LF 3 CCR

Time Series



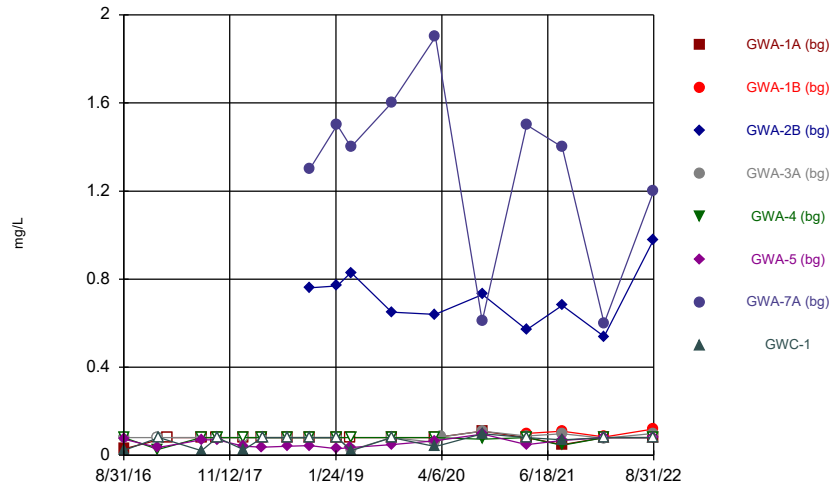
Constituent: Beryllium Analysis Run 11/3/2022 1:03 PM View: Descriptive
Plant McIntosh Client: Southern Company Data: McIntosh LF 3 CCR

Time Series



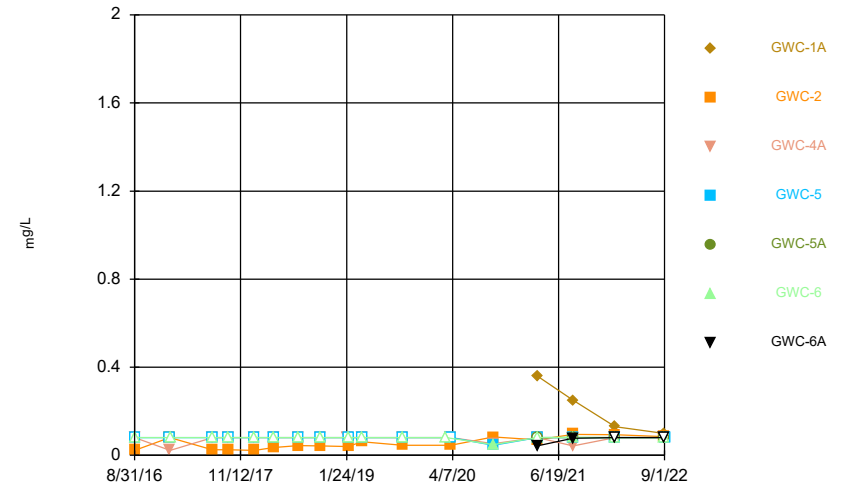
Constituent: Beryllium Analysis Run 11/3/2022 1:03 PM View: Descriptive
Plant McIntosh Client: Southern Company Data: McIntosh LF 3 CCR

Time Series



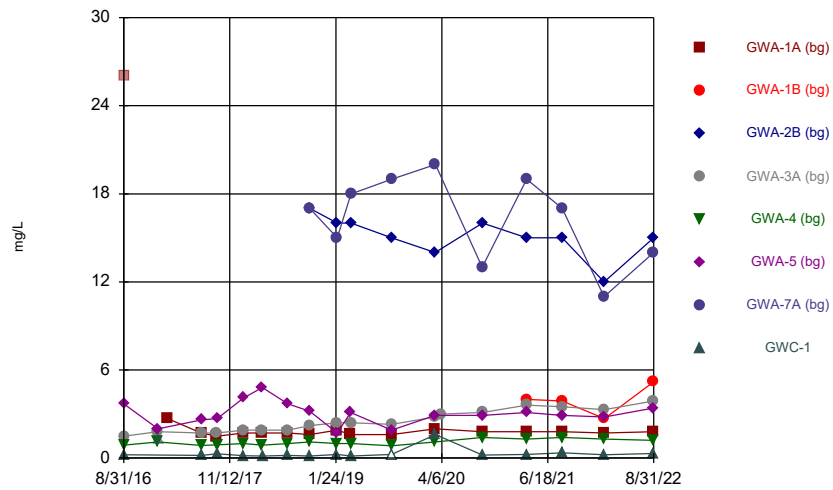
Constituent: Boron Analysis Run 11/3/2022 1:03 PM View: Descriptive
Plant McIntosh Client: Southern Company Data: McIntosh LF 3 CCR

Time Series



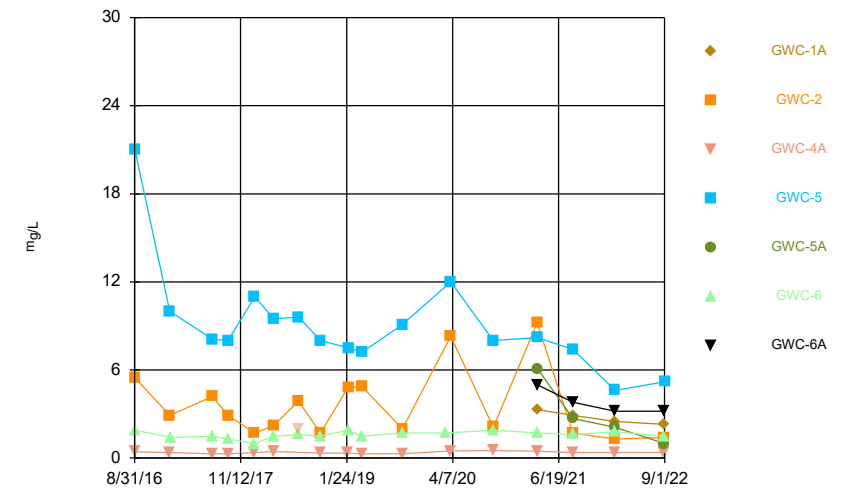
Constituent: Boron Analysis Run 11/3/2022 1:03 PM View: Descriptive
Plant McIntosh Client: Southern Company Data: McIntosh LF 3 CCR

Time Series



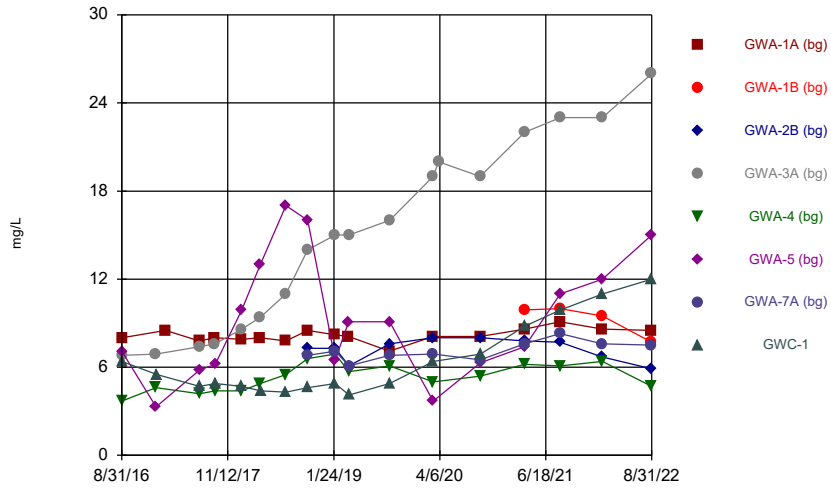
Constituent: Calcium Analysis Run 11/3/2022 1:03 PM View: Descriptive
Plant McIntosh Client: Southern Company Data: McIntosh LF 3 CCR

Time Series



Constituent: Calcium Analysis Run 11/3/2022 1:03 PM View: Descriptive
Plant McIntosh Client: Southern Company Data: McIntosh LF 3 CCR

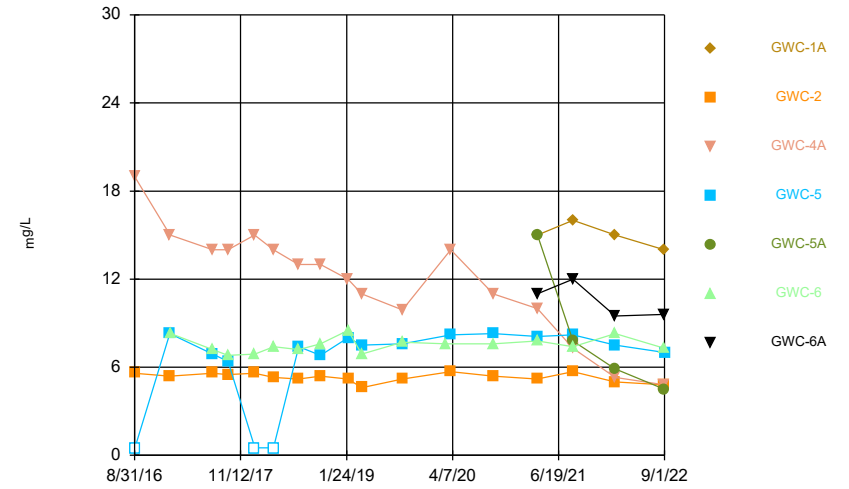
Time Series



Constituent: Chloride Analysis Run 11/3/2022 1:03 PM View: Descriptive
Plant McIntosh Client: Southern Company Data: McIntosh LF 3 CCR

Hollow symbols indicate censored values.

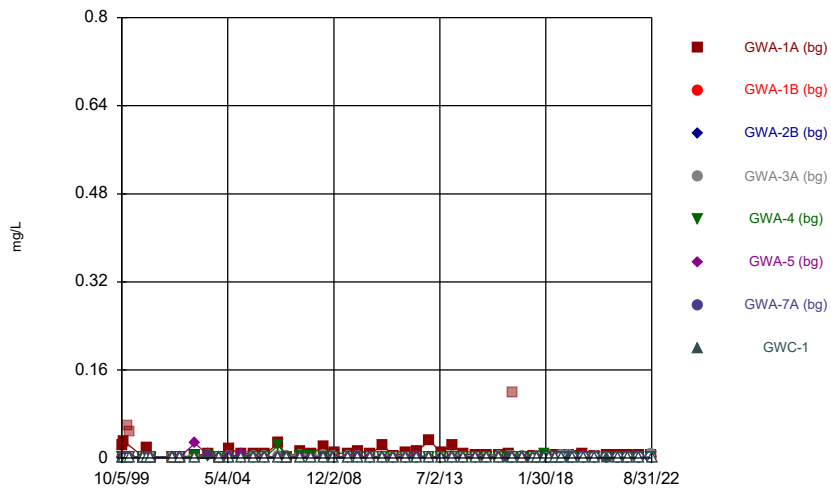
Time Series



Constituent: Chloride Analysis Run 11/3/2022 1:03 PM View: Descriptive
Plant McIntosh Client: Southern Company Data: McIntosh LF 3 CCR

Hollow symbols indicate censored values.

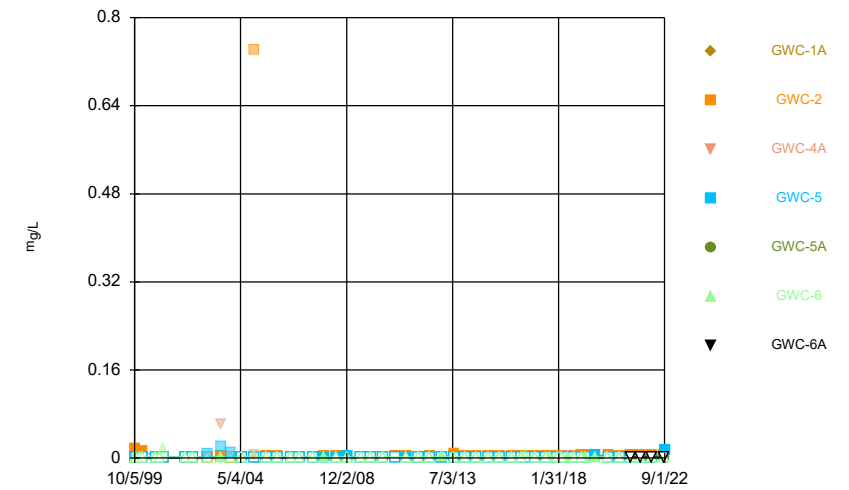
Time Series



Constituent: Chromium Analysis Run 11/3/2022 1:03 PM View: Descriptive
Plant McIntosh Client: Southern Company Data: McIntosh LF 3 CCR

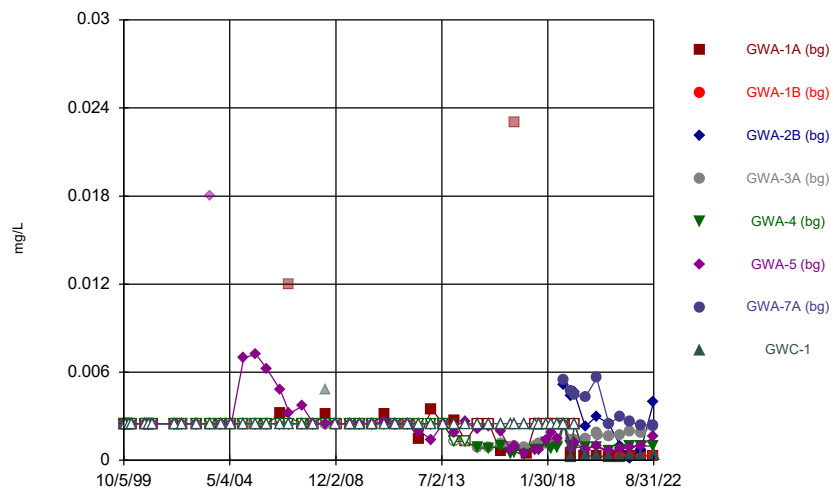
Hollow symbols indicate censored values.

Time Series



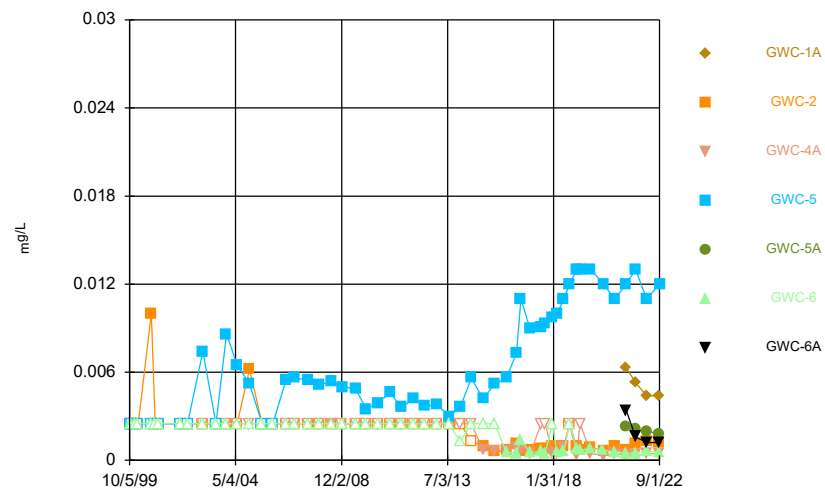
Constituent: Chromium Analysis Run 11/3/2022 1:03 PM View: Descriptive
Plant McIntosh Client: Southern Company Data: McIntosh LF 3 CCR

Time Series



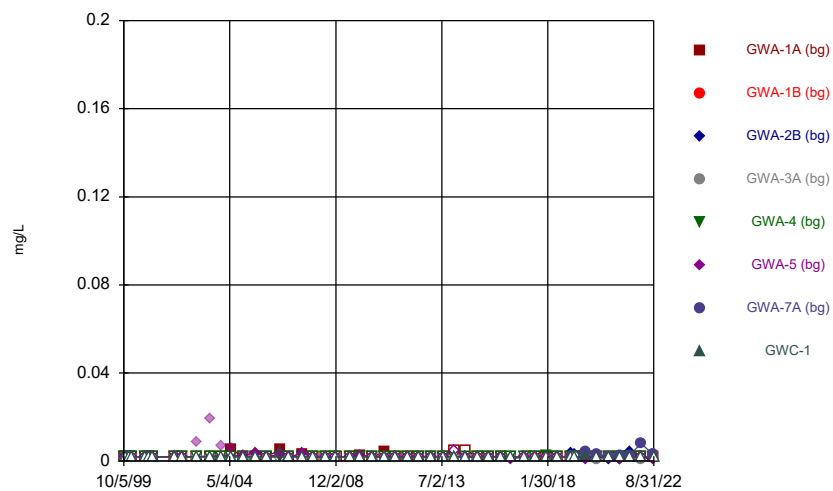
Constituent: Cobalt Analysis Run 11/3/2022 1:03 PM View: Descriptive
Plant McIntosh Client: Southern Company Data: McIntosh LF 3 CCR

Time Series



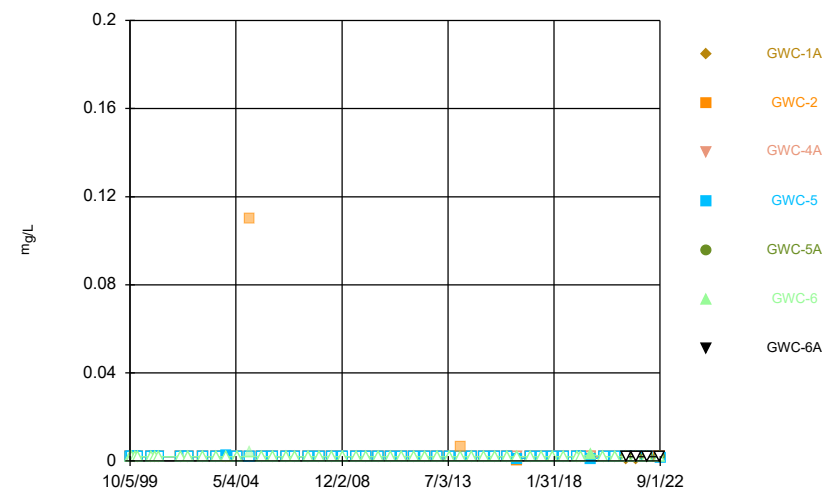
Constituent: Cobalt Analysis Run 11/3/2022 1:03 PM View: Descriptive
Plant McIntosh Client: Southern Company Data: McIntosh LF 3 CCR

Time Series



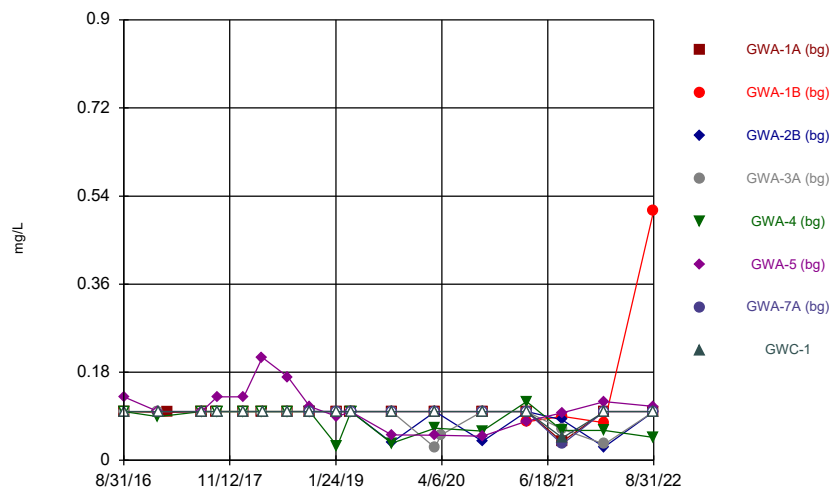
Constituent: Copper Analysis Run 11/3/2022 1:03 PM View: Descriptive
Plant McIntosh Client: Southern Company Data: McIntosh LF 3 CCR

Time Series



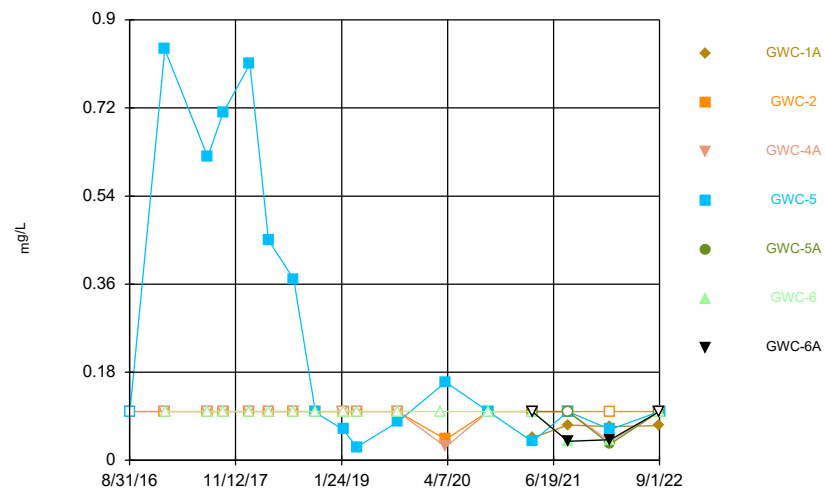
Constituent: Copper Analysis Run 11/3/2022 1:04 PM View: Descriptive
Plant McIntosh Client: Southern Company Data: McIntosh LF 3 CCR

Time Series



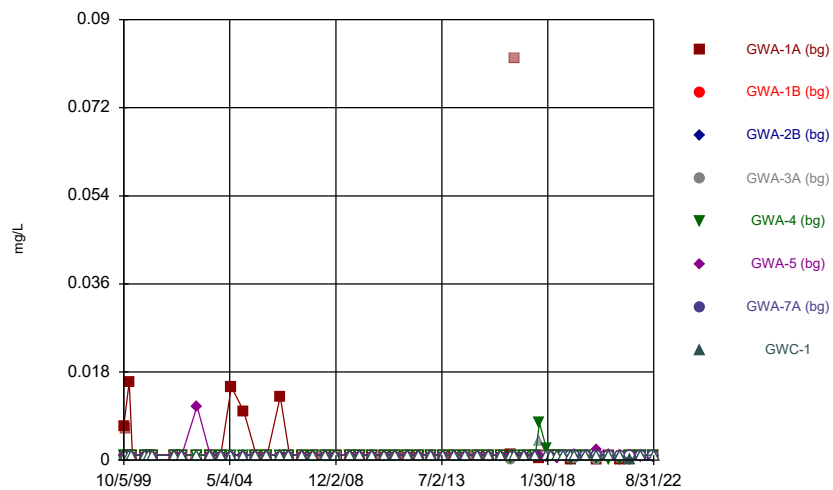
Constituent: Fluoride Analysis Run 11/3/2022 1:04 PM View: Descriptive
Plant McIntosh Client: Southern Company Data: McIntosh LF 3 CCR

Time Series



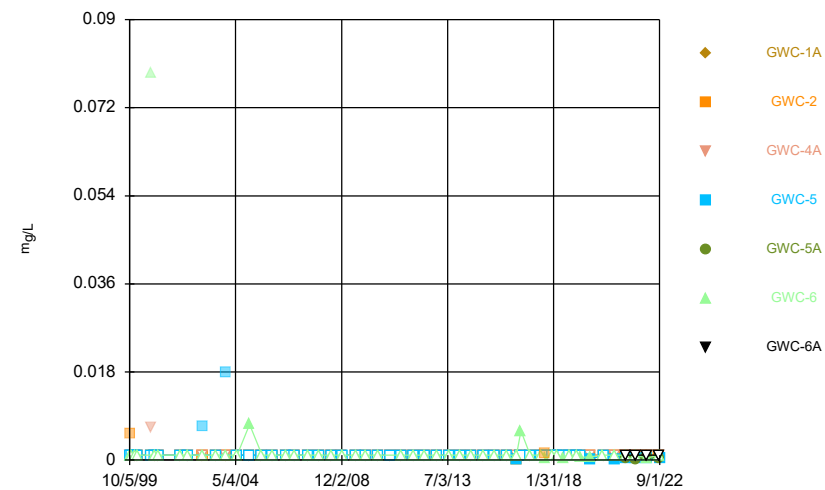
Constituent: Fluoride Analysis Run 11/3/2022 1:04 PM View: Descriptive
Plant McIntosh Client: Southern Company Data: McIntosh LF 3 CCR

Time Series



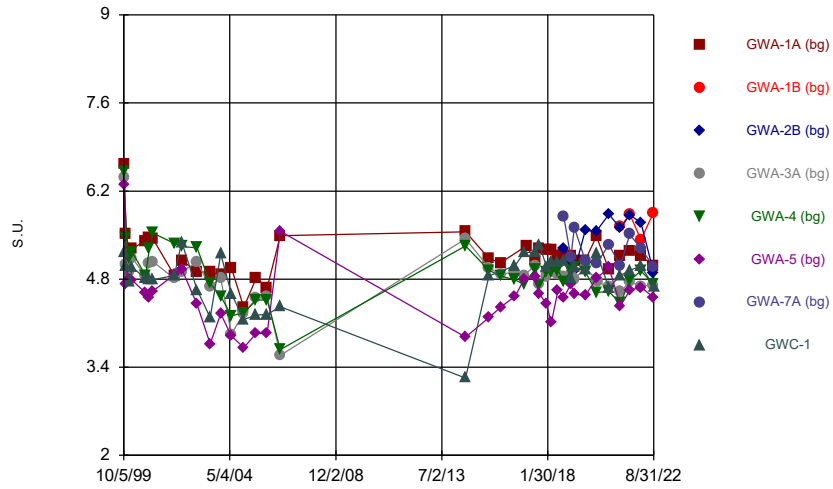
Constituent: Lead Analysis Run 11/3/2022 1:04 PM View: Descriptive
Plant McIntosh Client: Southern Company Data: McIntosh LF 3 CCR

Time Series



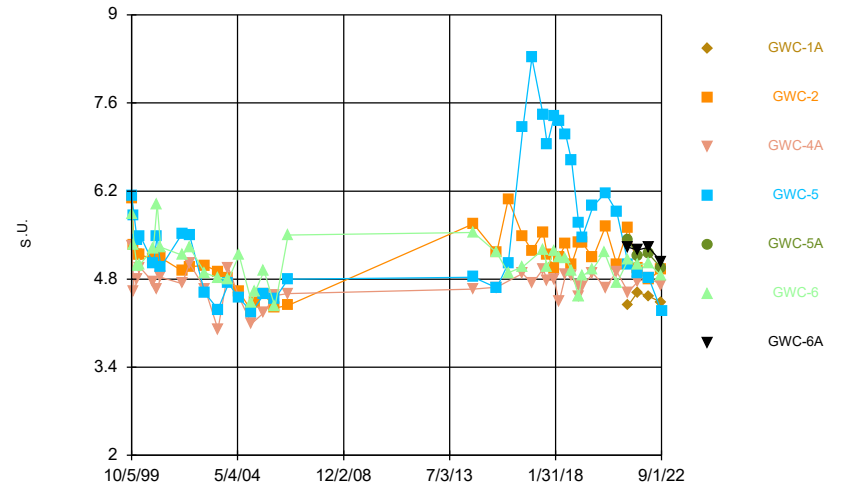
Constituent: Lead Analysis Run 11/3/2022 1:04 PM View: Descriptive
Plant McIntosh Client: Southern Company Data: McIntosh LF 3 CCR

Time Series



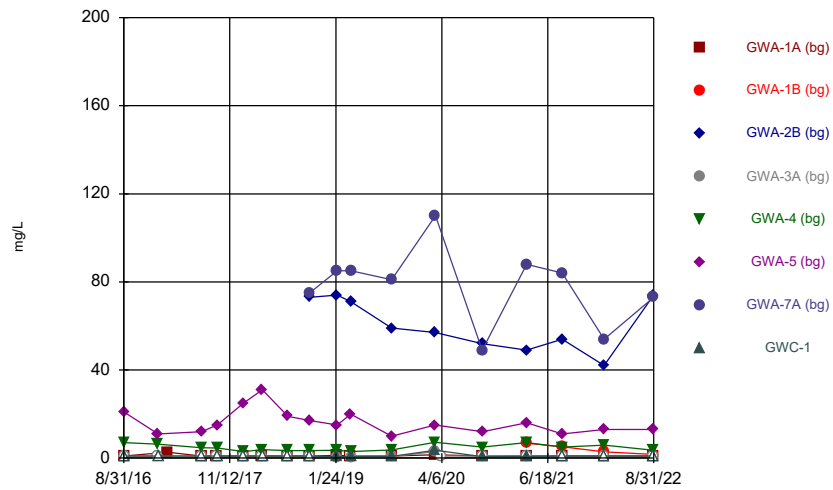
Constituent: pH Analysis Run 11/3/2022 1:04 PM View: Descriptive
 Plant McIntosh Client: Southern Company Data: McIntosh LF 3 CCR

Time Series



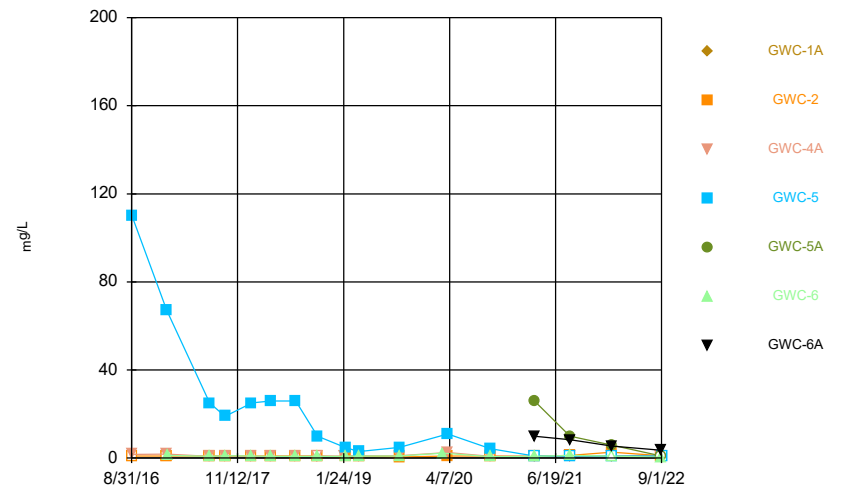
Constituent: pH Analysis Run 11/3/2022 1:04 PM View: Descriptive
 Plant McIntosh Client: Southern Company Data: McIntosh LF 3 CCR

Time Series



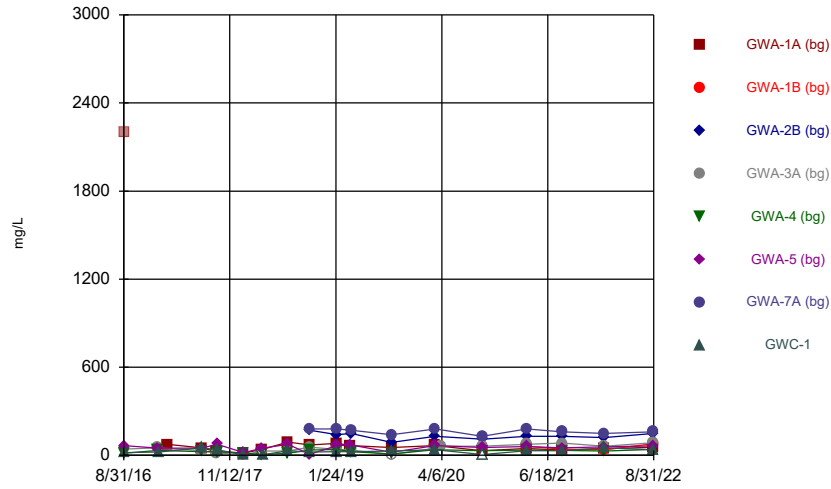
Constituent: Sulfate Analysis Run 11/3/2022 1:04 PM View: Descriptive
 Plant McIntosh Client: Southern Company Data: McIntosh LF 3 CCR

Time Series



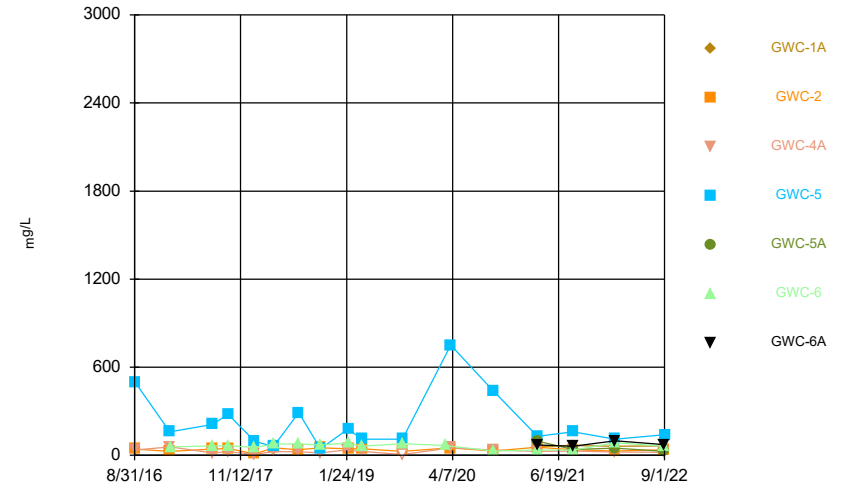
Constituent: Sulfate Analysis Run 11/3/2022 1:04 PM View: Descriptive
 Plant McIntosh Client: Southern Company Data: McIntosh LF 3 CCR

Time Series



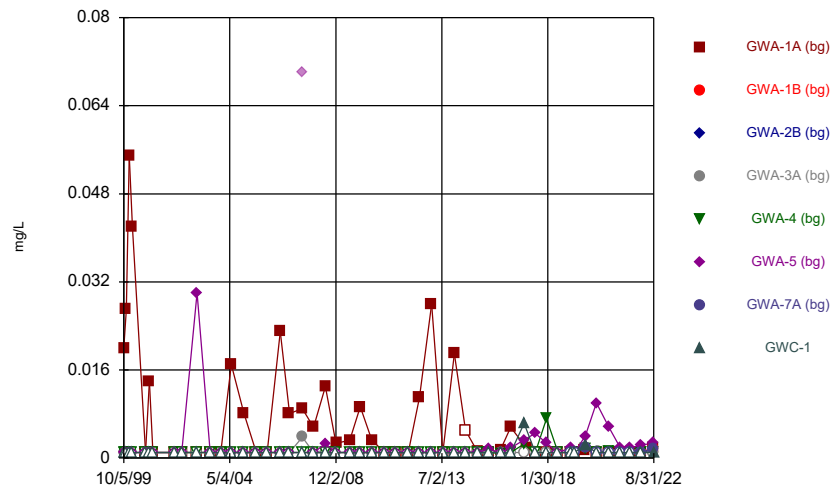
Constituent: Total Dissolved Solids Analysis Run 11/3/2022 1:04 PM View: Descriptive
Plant McIntosh Client: Southern Company Data: McIntosh LF 3 CCR

Time Series



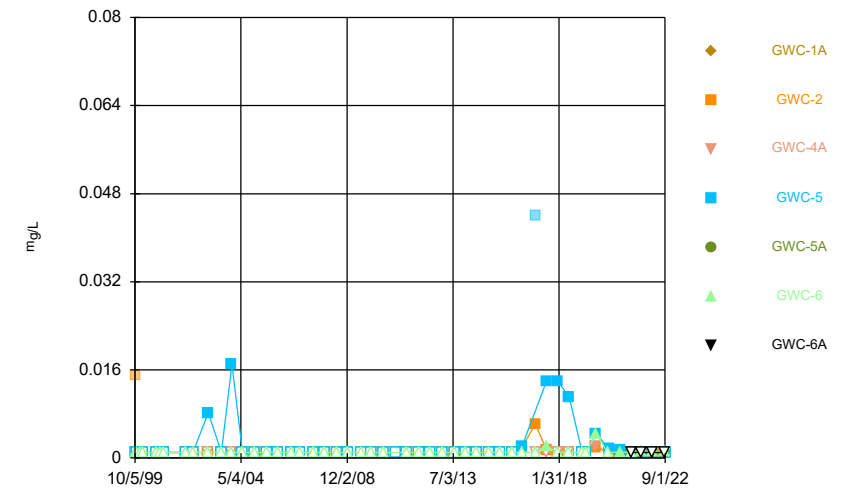
Constituent: Total Dissolved Solids Analysis Run 11/3/2022 1:04 PM View: Descriptive
Plant McIntosh Client: Southern Company Data: McIntosh LF 3 CCR

Time Series



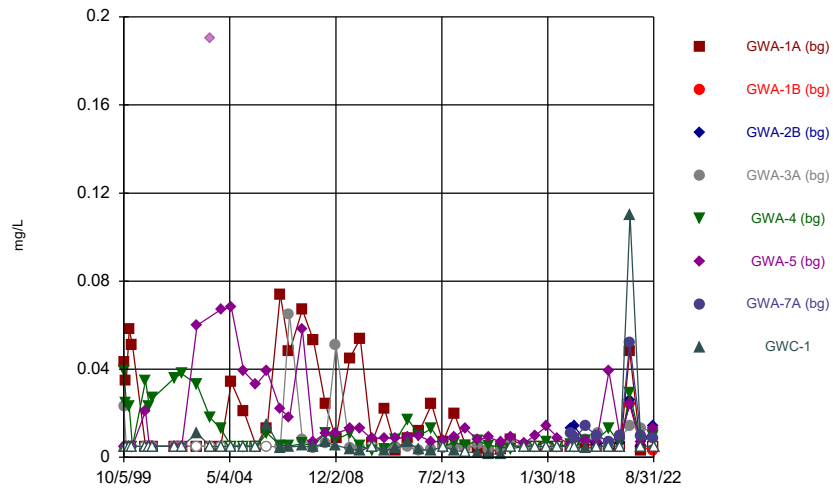
Constituent: Vanadium Analysis Run 11/3/2022 1:04 PM View: Descriptive
Plant McIntosh Client: Southern Company Data: McIntosh LF 3 CCR

Time Series



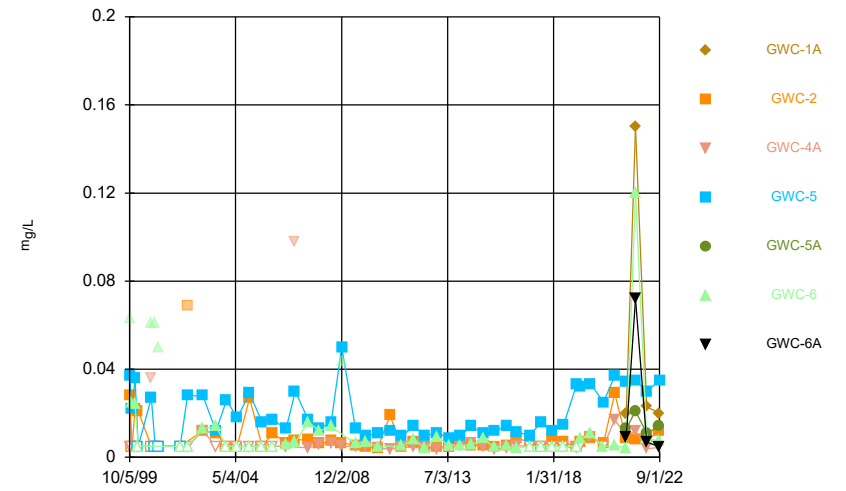
Constituent: Vanadium Analysis Run 11/3/2022 1:04 PM View: Descriptive
Plant McIntosh Client: Southern Company Data: McIntosh LF 3 CCR

Time Series



Constituent: Zinc Analysis Run 11/3/2022 1:04 PM View: Descriptive
Plant McIntosh Client: Southern Company Data: McIntosh LF 3 CCR

Time Series



Constituent: Zinc Analysis Run 11/3/2022 1:04 PM View: Descriptive
Plant McIntosh Client: Southern Company Data: McIntosh LF 3 CCR

Time Series

Constituent: Barium (mg/L) Analysis Run 11/3/2022 1:05 PM View: Descriptive

Plant McIntosh Client: Southern Company Data: McIntosh LF 3 CCR

	GWA-1A (bg)	GWA-1B (bg)	GWA-2B (bg)	GWA-3A (bg)	GWA-4 (bg)	GWA-5 (bg)	GWA-7A (bg)	GWC-1
10/5/1999	0.084			0.031	0.013	0.1		0.096
11/12/1999	0.099			0.023	0.017	0.086		0.085
12/29/1999	0.18			0.033	0.027	0.12		0.1
2/17/2000	0.12			0.026	0.023	0.13		0.072
9/13/2000	0.038			0.044	0.022	0.18		0.15
11/10/2000	0.065			0.044	0.035	0.018		0.15
1/4/2001	0.037			0.043	0.032	0.23		0.15
12/11/2001	0.027			0.041	0.032	0.12		0.14
4/4/2002	0.027			0.038	0.03	0.094		0.14
12/6/2002	0.028			0.044	0.041	0.33		0.14
6/28/2003	0.054			0.045	0.035	0.11		0.12
12/13/2003	0.027			0.039	0.029	0.057		0.12
5/28/2004	0.18			0.042	0.033	0.035		0.12
12/10/2004	0.1			0.045	0.037	0.04		0.13
6/24/2005	0.045			0.042	0.034	0.037		0.1
12/13/2005	0.048			0.043	0.03	0.039		0.096
7/12/2006	0.13			0.043	0.03	0.042		0.083
12/1/2006	0.012			0.041	0.032	0.044		0.084
6/21/2007	0.2			0.043	0.03	0.058		0.087
12/15/2007	0.14			0.045	0.034	0.073		0.11
6/21/2008					0.037			0.093
6/22/2008	0.1			0.05		0.096		
12/6/2008				0.14	0.034	0.094		0.11
12/7/2008	0.043							
7/10/2009				0.046				
7/11/2009	0.13				0.037	0.12		0.064
12/22/2009						0.089		
12/23/2009	0.17			0.049	0.058			0.052
6/23/2010				0.043	0.046	0.081		0.051
6/24/2010	0.045							
1/8/2011				0.047	0.036	0.097		0.052
1/9/2011	0.11							
7/10/2011				0.035	0.031	0.084		0.036
7/11/2011	0.022							
1/19/2012				0.05	0.045			
1/20/2012	0.043					0.099		0.065
7/12/2012				0.042	0.039	0.12		0.074
7/13/2012	0.05							
1/21/2013	0.11			0.048	0.042	0.095		0.066
7/20/2013	0.04			0.047	0.054	0.086		0.035
1/17/2014	0.082			0.049	0.057	0.14		0.036
7/12/2014	0.034			0.043	0.042	0.17		0.037
1/15/2015				0.05	0.041			
1/16/2015	0.029					0.12		0.027
7/15/2015	0.025			0.044	0.04	0.12		0.031
1/16/2016	0.026			0.048	0.04	0.12		0.032
6/22/2016	0.0374 (D)			0.0471 (D)	0.0453	0.0839		0.0323
8/31/2016				0.043	0.041	0.093		0.019
9/1/2016	0.86 (o)							
1/19/2017				0.052	0.052	0.079		
1/23/2017								0.023
2/28/2017	0.027							

Time Series

Constituent: Barium (mg/L) Analysis Run 11/3/2022 1:05 PM View: Descriptive

Plant McIntosh Client: Southern Company Data: McIntosh LF 3 CCR

	GWC-1A	GWC-2	GWC-4A	GWC-5	GWC-5A	GWC-6	GWC-6A
10/5/1999		0.097	0.095	0.47		0.017	
11/12/1999		0.057	0.063	0.27		0.031	
12/29/1999		0.084	0.066	0.19		0.039	
2/17/2000		0.079	0.023	0.28		0.031	
9/13/2000		0.06	0.056	0.29		0.043	
11/10/2000		0.062	0.059	0.24		0.044	
1/4/2001		0.064	0.079	0.24		0.071	
12/11/2001		0.057	0.049	0.21		0.042	
4/4/2002		0.06	0.048	0.21		0.043	
12/6/2002		0.072	0.1	0.28		0.046	
6/28/2003		0.066	0.036	0.27		0.038	
12/13/2003		0.063	0.031	0.38		0.035	
5/28/2004		0.067	0.038	0.28		0.037	
12/10/2004		0.075	0.041	0.25		0.043	
6/24/2005		0.071	0.028	0.23		0.044	
12/13/2005		0.068	0.025	0.28		0.045	
7/12/2006		0.058	0.033	0.24		0.037	
12/1/2006		0.063	0.051	0.019 (o)		0.044	
6/21/2007		0.071	0.052	0.19		0.037	
12/15/2007		0.068	0.062	0.18		0.042	
6/21/2008			0.065	0.19			
6/22/2008		0.057				0.04	
12/6/2008		0.058	0.056				
12/7/2008				0.25		0.12 (o)	
7/11/2009		0.05	0.059	0.23		0.038	
12/23/2009		0.05	0.067	0.17		0.04	
6/23/2010		0.083	0.084	0.22			
6/24/2010						0.035	
1/8/2011		0.057	0.053	0.17			
7/10/2011		0.046	0.043	0.13			
7/11/2011						0.03	
1/20/2012		0.055	0.054	0.15		0.039	
7/12/2012		0.045	0.053	0.13			
7/13/2012						0.04	
1/21/2013		0.045	0.053	0.13		0.045	
7/20/2013		0.079	0.052	0.18		0.043	
1/17/2014		0.084	0.063	0.24		0.045	
7/11/2014			0.068	0.26			
7/12/2014		0.065				0.036	
1/15/2015		0.067					
1/16/2015			0.059	0.19		0.044	
7/15/2015		0.049	0.045	0.26		0.038	
1/16/2016				0.21		0.047	
1/17/2016		0.09	0.052				
6/22/2016		0.0806	0.0528				
6/23/2016				0.491		0.0393	
8/31/2016		0.057	0.037				
9/1/2016				0.47		0.075	
1/24/2017		0.06		0.42			
1/25/2017			0.034				
1/27/2017						0.046	
7/19/2017		0.06					

Time Series

Constituent: Barium (mg/L) Analysis Run 11/3/2022 1:05 PM View: Descriptive
Plant McIntosh Client: Southern Company Data: McIntosh LF 3 CCR

	GWC-1A	GWC-2	GWC-4A	GWC-5	GWC-5A	GWC-6	GWC-6A
7/20/2017			0.028	0.47		0.045	
9/21/2017		0.063	0.032	0.48			
9/22/2017						0.04	
1/9/2018		0.059	0.033				
1/10/2018				0.68		0.027	
3/28/2018			0.037	0.6			
3/29/2018		0.06				0.044	
7/10/2018		0.073	0.065				
7/11/2018				0.64		0.051	
10/9/2018		0.057	0.029	0.56		0.041	
1/30/2019			0.027				
1/31/2019		0.067		0.45		0.053	
3/28/2019		0.064	0.028	0.45		0.045	
9/12/2019		0.06	0.026	0.59		0.052	
3/11/2020						0.048	
3/31/2020		0.077	0.036	0.67			
9/22/2020		0.061	0.031	0.51		0.051	
3/23/2021		0.083					0.098
3/24/2021	0.29		0.031	0.5	0.055	0.044	
8/18/2021	0.28	0.062	0.032	0.49	0.052	0.047	0.09
2/8/2022		0.062			0.052		
2/9/2022	0.27		0.034	0.36		0.05	0.083
8/30/2022	0.24	0.058	0.035				
8/31/2022					0.057	0.043	0.081
9/1/2022				0.36			

Time Series

Constituent: Beryllium (mg/L) Analysis Run 11/3/2022 1:05 PM View: Descriptive

Plant McIntosh Client: Southern Company Data: McIntosh LF 3 CCR

	GWA-1A (bg)	GWA-1B (bg)	GWA-2B (bg)	GWA-3A (bg)	GWA-4 (bg)	GWA-5 (bg)	GWA-7A (bg)	GWC-1
10/5/1999	<0.0025			<0.0025	<0.0025	<0.0025		<0.0025
11/12/1999	<0.0025			<0.0025	<0.0025	<0.0025		<0.0025
12/29/1999	<0.0025			<0.0025	<0.0025	<0.0025		<0.0025
2/17/2000	<0.0025			<0.0025	<0.0025	<0.0025		<0.0025
9/13/2000	<0.0025			<0.0025	<0.0025	<0.0025		<0.0025
11/10/2000	<0.0025			<0.0025	<0.0025	<0.0025		<0.0025
1/4/2001	<0.0025			<0.0025	<0.0025	<0.0025		<0.0025
12/11/2001	<0.0025			<0.0025	<0.0025	<0.0025		<0.0025
4/4/2002	<0.0025			<0.0025	<0.0025	<0.0025		<0.0025
12/6/2002	<0.0025			<0.0025	<0.0025	0.0018		<0.0025
6/28/2003	<0.0025			<0.0025	<0.0025	0.0036		<0.0025
12/13/2003	<0.0025			<0.0025	<0.0025	0.0019		<0.0025
5/28/2004	<0.0025			<0.0025	<0.0025	<0.0025		<0.0025
12/10/2004	0.0028			0.0024	0.0023	0.0035		0.0025
6/24/2005	<0.0025			<0.0025	<0.0025	<0.0025		<0.0025
12/13/2005	<0.0025			<0.0025	<0.0025	<0.0025		<0.0025
7/12/2006	0.0013			<0.0025	<0.0025	0.0013		0.0013
12/1/2006	<0.0025			<0.0025	<0.0025	<0.0025		<0.0025
6/21/2007	<0.0025			<0.0025	<0.0025	<0.0025		<0.0025
12/15/2007	<0.0025			<0.0025	<0.0025	<0.0025		<0.0025
6/21/2008					<0.0025			<0.0025
6/22/2008	<0.0025			<0.0025		<0.0025		<0.0025
12/6/2008				<0.0025	<0.0025	<0.0025		<0.0025
12/7/2008	<0.0025							
7/10/2009				<0.0025				
7/11/2009	<0.0025				<0.0025	<0.0025		<0.0025
12/22/2009						<0.0025		
12/23/2009	<0.0025			<0.0025	<0.0025			<0.0025
6/23/2010				<0.0025	<0.0025	<0.0025		<0.0025
6/24/2010	<0.0025							
1/8/2011				<0.0025	<0.0025	<0.0025		<0.0025
1/9/2011	<0.0025							
7/10/2011				<0.0025	<0.0025	<0.0025		<0.0025
7/11/2011	<0.0025							
1/19/2012				<0.0025	<0.0025			
1/20/2012	<0.0025					<0.0025		<0.0025
7/12/2012				<0.0025	<0.0025	<0.0025		<0.0025
7/13/2012	<0.0025							
1/21/2013	<0.0025			<0.0025	<0.0025	<0.0025		<0.0025
7/20/2013	<0.0025			<0.0025	<0.0025	<0.0025		<0.0025
1/17/2014	<0.0013 (J)			<0.0025	<0.0013 (J)	<0.0013 (J)		<0.0025
7/12/2014	<0.0013 (J)			<0.0025	<0.0013 (J)	<0.0013 (J)		<0.0013 (J)
1/15/2015				0.00039 (J)	0.0002 (J)			
1/16/2015	0.00022 (J)					0.00043 (J)		<0.0025
7/15/2015	0.00015 (J)			0.00031 (J)	0.00018 (J)	0.00064 (J)		<0.0025
1/16/2016	0.00011 (J)			0.00034 (J)	0.00013 (J)	0.00039 (J)		<0.0025
6/22/2016	0.00025 (JD)			0.0004 (J)	0.0001 (J)	0.0002 (J)		<0.0025
8/31/2016				0.00035 (J)	<0.0025	<0.0025		<0.0025
9/1/2016	0.0084 (o)							
1/19/2017				<0.0025	<0.0025	<0.0025		
1/23/2017								<0.0025
2/28/2017	<0.0025							

Time Series

Constituent: Beryllium (mg/L) Analysis Run 11/3/2022 1:05 PM View: Descriptive

Plant McIntosh Client: Southern Company Data: McIntosh LF 3 CCR

	GWC-1A	GWC-2	GWC-4A	GWC-5	GWC-5A	GWC-6	GWC-6A
10/5/1999		<0.0025	<0.0025	<0.0025		<0.0025	
11/12/1999		<0.0025	<0.0025	<0.0025		<0.0025	
12/29/1999		<0.0025	<0.0025	<0.0025		<0.0025	
2/17/2000		<0.0025	<0.0025	<0.0025		<0.0025	
9/13/2000		<0.0025	<0.0025	<0.0025		<0.0025	
11/10/2000		<0.0025	<0.0025	<0.0025		<0.0025	
1/4/2001		<0.0025	<0.0025	<0.0025		<0.0025	
12/11/2001		<0.0025	<0.0025	<0.0025		<0.0025	
4/4/2002		<0.0025	<0.0025	<0.0025		<0.0025	
12/6/2002		<0.0025	<0.0025	0.0012		<0.0025	
6/28/2003		<0.0025	<0.0025	<0.0025		<0.0025	
12/13/2003		<0.0025	<0.0025	0.0014		<0.0025	
5/28/2004		<0.0025	<0.0025	<0.0025		<0.0025	
12/10/2004		0.0023	0.0023	0.0029		0.0058 (o)	
2/5/2005						<0.0025	
6/24/2005		<0.0025	<0.0025	<0.0025		<0.0025	
12/13/2005		<0.0025	<0.0025	<0.0025		<0.0025	
7/12/2006		0.0013	0.0013	0.0013		0.0013	
12/1/2006		<0.0025	<0.0025	<0.0025		<0.0025	
6/21/2007		<0.0025	<0.0025	<0.0025		<0.0025	
12/15/2007		<0.0025	<0.0025	<0.0025		<0.0025	
6/21/2008			<0.0025	<0.0025			
6/22/2008		<0.0025				<0.0025	
12/6/2008		<0.0025	<0.0025				
12/7/2008				<0.0025		<0.0025	
7/11/2009		<0.0025	<0.0025	<0.0025		<0.0025	
12/23/2009		<0.0025	<0.0025	<0.0025		<0.0025	
6/23/2010		<0.0025	<0.0025	<0.0025			
6/24/2010						<0.0025	
1/8/2011		<0.0025	<0.0025	<0.0025			
7/10/2011		<0.0025	<0.0025	<0.0025			
7/11/2011						<0.0025	
1/20/2012		<0.0025	<0.0025	<0.0025		<0.0025	
7/12/2012		<0.0025	<0.0025	<0.0025			
7/13/2012						<0.0025	
1/21/2013		<0.0025	<0.0025	<0.0025		<0.0025	
7/20/2013		<0.0025	<0.0025	<0.0025		<0.0025	
1/17/2014		<0.0013 (J)	<0.0025	<0.0013 (J)		<0.0013 (J)	
7/11/2014			<0.0013 (J)	<0.0013 (J)			
7/12/2014		<0.0013 (J)				<0.0013 (J)	
1/15/2015		0.00019 (J)					
1/16/2015			0.00012 (J)	0.00067 (J)		0.00021 (J)	
7/15/2015		0.00018 (J)	<0.0025	0.00065 (J)		0.00011 (J)	
1/16/2016				0.00065 (J)		0.00019 (J)	
1/17/2016		0.00011 (J)	<0.0025				
6/22/2016		0.0002 (J)	<0.0025				
6/23/2016				0.0004 (J)		0.0002 (J)	
8/31/2016		<0.0025	<0.0025				
9/1/2016				<0.0025		0.0006 (J)	
1/24/2017		<0.0025		<0.0025			
1/25/2017			<0.0025				
1/27/2017						<0.0025	

Time Series

Constituent: Beryllium (mg/L) Analysis Run 11/3/2022 1:05 PM View: Descriptive
 Plant McIntosh Client: Southern Company Data: McIntosh LF 3 CCR

	GWC-1A	GWC-2	GWC-4A	GWC-5	GWC-5A	GWC-6	GWC-6A
7/19/2017		<0.0025					
7/20/2017			<0.0025	0.00049 (J)		<0.0025	
9/21/2017		<0.0025	<0.0025	0.00068 (J)			
9/22/2017						<0.0025	
1/9/2018		<0.0025	<0.0025				
1/10/2018				<0.0025		<0.0025	
3/28/2018			<0.0025	<0.0025			
3/29/2018		<0.0025				<0.0025	
7/10/2018		<0.0025	<0.0025				
7/11/2018				0.00043 (J)		<0.0025	
10/9/2018		<0.0025	<0.0025	0.00054 (J)		<0.0025	
1/30/2019			7E-05 (J)				
1/31/2019		6.5E-05 (J)		0.0012 (J)		0.00012 (J)	
3/28/2019		<0.0025	<0.0025	0.0017 (J)		<0.0025	
9/12/2019		<0.0025	0.00028 (J)	0.0017		0.00025 (J)	
3/11/2020						0.0003 (J)	
3/31/2020		<0.0025	<0.0025	0.0006 (J)			
9/22/2020		0.00025 (J)	<0.0025	0.0011 (J)		0.00021 (J)	
3/23/2021		0.00018 (J)					<0.0025
3/24/2021	0.00039 (J)		<0.0025	0.0029	<0.0025	0.00019 (J)	
8/18/2021	0.00041 (J)	0.0002 (J)	<0.0025	0.0021 (J)	<0.0025	0.00018 (J)	<0.0025
2/8/2022		<0.0025			<0.0025		
2/9/2022	0.0004 (J)		<0.0025	0.0024 (J)		<0.0025	0.00032 (J)
8/30/2022	0.00042 (J)	0.00038 (J)	<0.0025				
8/31/2022					<0.0025	0.00049 (J)	0.00029 (J)
9/1/2022				0.0018 (J)			

Time Series

Constituent: Boron (mg/L) Analysis Run 11/3/2022 1:05 PM View: Descriptive

Plant McIntosh Client: Southern Company Data: McIntosh LF 3 CCR

	GWC-1A	GWC-2	GWC-4A	GWC-5	GWC-5A	GWC-6	GWC-6A
8/31/2016		0.023 (J)	<0.08				
9/1/2016				<0.08		<0.08	
1/24/2017		<0.08		<0.08			
1/25/2017			0.023 (J)				
1/27/2017						<0.08	
7/19/2017		0.026 (J)					
7/20/2017			<0.08	<0.08		<0.08	
9/21/2017		0.025 (J)	<0.08	<0.08			
9/22/2017						<0.08	
1/9/2018		0.023 (J)	<0.08				
1/10/2018				<0.08		<0.08	
3/28/2018			<0.08	<0.08			
3/29/2018		0.035 (J)				<0.08	
7/10/2018		0.044 (J)	<0.08				
7/11/2018				<0.08		<0.08	
10/9/2018		0.043 (J)	<0.08	<0.08		<0.08	
1/30/2019			<0.08				
1/31/2019		0.04 (J)		<0.08		<0.08	
3/28/2019		0.062	<0.08	<0.08		<0.08	
9/12/2019		0.045 (J)	<0.08	<0.08		<0.08	
3/11/2020						<0.08	
3/31/2020		0.046 (J)	<0.08	<0.08			
9/22/2020		0.083	0.053 (J)	0.045 (J)		0.048 (J)	
3/23/2021		0.07 (J)					0.043 (J)
3/24/2021	0.36		<0.08	<0.08	<0.08	<0.08	
8/18/2021	0.25	0.095	0.043 (J)	<0.08	<0.08	0.082	0.077 (J)
2/8/2022		0.094			<0.08		
2/9/2022	0.13		<0.08	<0.08		<0.08	<0.08
8/30/2022	0.099	0.085	<0.08				
8/31/2022					<0.08	<0.08	<0.08
9/1/2022				<0.08			

Time Series

Constituent: Calcium (mg/L) Analysis Run 11/3/2022 1:05 PM View: Descriptive

Plant McIntosh Client: Southern Company Data: McIntosh LF 3 CCR

	GWC-1A	GWC-2	GWC-4A	GWC-5	GWC-5A	GWC-6	GWC-6A
8/31/2016		5.5	0.42				
9/1/2016				21		1.9	
1/24/2017		2.9		10			
1/25/2017			0.37				
1/27/2017						1.4	
7/19/2017		4.2					
7/20/2017			0.29	8.1		1.5	
9/21/2017		2.9	0.3	8			
9/22/2017						1.3	
1/9/2018		1.7	0.38				
1/10/2018				11		1	
3/28/2018			0.44	9.5			
3/29/2018		2.2				1.5	
7/10/2018		3.9	2 (o)				
7/11/2018				9.6		1.6	
10/9/2018		1.7	0.34	8		1.5	
1/30/2019			0.34				
1/31/2019		4.8		7.5		1.9	
3/28/2019		4.9	0.3	7.2		1.5	
9/12/2019		2	0.3 (J)	9.1		1.7	
3/11/2020						1.7	
3/31/2020		8.3	0.48 (J)	12			
9/22/2020		2.1	0.51	8		1.9	
3/23/2021		9.2					5
3/24/2021	3.3		0.46 (J)	8.2	6.1	1.7	
8/18/2021	2.9	1.7	0.37 (J)	7.4	2.7	1.6	3.8
2/8/2022		1.3			2.1		
2/9/2022	2.5		0.39 (J)	4.6		1.8	3.2
8/30/2022	2.3	1.4	0.39 (J)				
8/31/2022					0.98	1.5	3.2
9/1/2022				5.2			

Time Series

Constituent: Chloride (mg/L) Analysis Run 11/3/2022 1:05 PM View: Descriptive
 Plant McIntosh Client: Southern Company Data: McIntosh LF 3 CCR

	GWC-1A	GWC-2	GWC-4A	GWC-5	GWC-5A	GWC-6	GWC-6A
8/31/2016		5.6	19				
9/1/2016				<1			
1/24/2017		5.4		8.3			
1/25/2017			15				
1/27/2017						8.3	
7/19/2017		5.6					
7/20/2017			14	6.9		7.2	
9/21/2017		5.5	14	6.4			
9/22/2017						6.8	
1/9/2018		5.6	15				
1/10/2018				<1		6.9	
3/28/2018			14	<1			
3/29/2018		5.3				7.4	
7/10/2018		5.2	13				
7/11/2018				7.4		7.2	
10/9/2018		5.4	13	6.8		7.6	
1/30/2019			12				
1/31/2019		5.2		8		8.5	
3/28/2019		4.6	11	7.5		6.9	
9/12/2019		5.2	9.9	7.6		7.7	
3/11/2020						7.6	
3/31/2020		5.7	14	8.2			
9/22/2020		5.4	11	8.3		7.6	
3/23/2021		5.2					11
3/24/2021	15		10	8.1	15	7.8	
8/18/2021	16	5.7	7.3	8.2	7.8	7.4	12
2/8/2022		5			5.9		
2/9/2022	15		5.3	7.5		8.3	9.5
8/30/2022	14	4.8	4.8				
8/31/2022					4.5	7.3	9.6
9/1/2022				7			

Time Series

Constituent: Chromium (mg/L) Analysis Run 11/3/2022 1:05 PM View: Descriptive

Plant McIntosh Client: Southern Company Data: McIntosh LF 3 CCR

	GWA-1A (bg)	GWA-1B (bg)	GWA-2B (bg)	GWA-3A (bg)	GWA-4 (bg)	GWA-5 (bg)	GWA-7A (bg)	GWC-1
10/5/1999	0.023			<0.002	<0.002	<0.002		<0.002
11/12/1999	0.03			<0.002	<0.002	<0.002		<0.002
12/29/1999	0.059 (o)			<0.002	<0.002	<0.002		<0.002
2/17/2000	0.048 (o)			<0.002	<0.002	<0.002		<0.002
9/13/2000	<0.002			<0.002	<0.002	<0.002		<0.002
11/10/2000	0.018			<0.002	<0.002	<0.002		<0.002
1/4/2001	<0.002			<0.002	<0.002	<0.002		<0.002
12/11/2001	<0.002			<0.002	<0.002	<0.002		<0.002
4/4/2002	<0.002			<0.002	<0.002	<0.002		<0.002
12/6/2002	0.0046			<0.002	0.0037	0.027		<0.002
6/28/2003	0.0082			0.0053	0.0039	0.0051		0.007 (o)
12/13/2003	<0.002			<0.002	<0.002	<0.002		<0.002
5/28/2004	0.016			0.0027	<0.002	0.0031		<0.002
12/10/2004	0.0087			0.004	<0.002	0.0067		<0.002
6/24/2005	0.0069			0.0031	<0.002	<0.002		<0.002
12/13/2005	0.0075			0.0031	<0.002	<0.002		<0.002
7/12/2006	0.027			0.0025	0.023	<0.002		<0.002
12/1/2006	<0.002			0.0037	0.0017	<0.002		<0.002
6/21/2007	0.012			0.0053	0.0027	0.0021		<0.002
12/15/2007	0.0085			0.0044	0.0026	0.0022		<0.002
6/21/2008					0.0021			<0.002
6/22/2008	0.021			0.0059		0.0019		
12/6/2008				0.0031	<0.002	<0.002		<0.002
12/7/2008	0.01							
7/10/2009				0.0029				
7/11/2009	0.0073				<0.002	<0.002		<0.002
12/22/2009						0.0032		
12/23/2009	0.013			0.0025	<0.002			<0.002
6/23/2010				0.0013	<0.002	<0.002		<0.002
6/24/2010	0.0076							
1/8/2011				0.0017	<0.002	0.0019		<0.002
1/9/2011	0.023							
7/10/2011				<0.002	<0.002	<0.002		<0.002
7/11/2011	0.0042							
1/19/2012				<0.002	<0.002			
1/20/2012	0.009					<0.002		<0.002
7/12/2012				<0.002	<0.002	0.0044		<0.002
7/13/2012	0.013							
1/21/2013	0.032			0.0014	<0.002	<0.002		<0.002
7/20/2013	0.01			0.0021	<0.002	0.0017		<0.002
1/17/2014	0.024			0.0023	<0.002	<0.0013 (J)		<0.002
7/12/2014	0.0069			<0.0013 (J)	<0.002	0.0014		<0.002
1/15/2015				<0.002	<0.002			
1/16/2015	0.0064					0.0011 (J)		<0.002
7/15/2015	0.0051			<0.002	<0.002	0.0016		<0.002
1/16/2016	0.0066			0.0025	<0.002	<0.002		<0.002
6/22/2016	0.00815 (JD)			0.00255 (JD)	0.0005 (J)	0.002 (J)		0.0008 (J)
8/31/2016				0.0042	<0.002	0.002 (J)		<0.002
9/1/2016	0.12 (o)							
1/19/2017				0.0039	<0.002	0.002 (J)		
1/23/2017								<0.002
2/28/2017	0.0012 (J)							

Time Series

Constituent: Chromium (mg/L) Analysis Run 11/3/2022 1:05 PM View: Descriptive

Plant McIntosh Client: Southern Company Data: McIntosh LF 3 CCR

	GWC-1A	GWC-2	GWC-4A	GWC-5	GWC-5A	GWC-6	GWC-6A
10/5/1999		0.017	<0.002	<0.002		<0.002	
11/12/1999		<0.002	<0.002	<0.002		<0.002	
12/29/1999		0.011	<0.002	<0.002		<0.002	
2/17/2000		0.013	<0.002	<0.002		<0.002	
9/13/2000		<0.002	<0.002	<0.002		<0.002	
11/10/2000		<0.002	<0.002	<0.002		<0.002	
1/4/2001		<0.002	<0.002	<0.002		0.016 (o)	
12/11/2001		<0.002	<0.002	<0.002		<0.002	
4/4/2002		<0.002	<0.002	<0.002		<0.002	
12/6/2002		<0.002	<0.002	0.008 (o)		<0.002	
6/28/2003		0.0027	0.061 (o)	0.021 (o)		0.0021	
12/13/2003		<0.002	<0.002	0.011 (o)		<0.002	
5/28/2004		<0.002	<0.002	<0.002		<0.002	
12/10/2004		0.74 (o)	0.0059 (o)	<0.002		0.0046 (o)	
2/5/2005		<0.002					
6/24/2005		0.0023	<0.002	<0.002		<0.002	
12/13/2005		0.0031	<0.002	<0.002		<0.002	
7/12/2006		0.0016	<0.002	<0.002		<0.002	
12/1/2006		0.0022	<0.002	<0.002		<0.002	
6/21/2007		0.002	<0.002	<0.002		<0.002	
12/15/2007		0.0029	<0.002	0.002		0.0016	
6/21/2008			<0.002	0.0017			
6/22/2008		0.0023				<0.002	
12/6/2008		0.0023	<0.002				
12/7/2008				0.0025		<0.002	
7/11/2009		0.0015	<0.002	<0.002		<0.002	
12/23/2009		0.0014	<0.002	<0.002		<0.002	
6/23/2010		0.0018	<0.002	<0.002			
6/24/2010						<0.002	
1/8/2011		0.0033	<0.002	<0.002			
7/10/2011		0.0028	<0.002	0.0013			
7/11/2011						<0.002	
1/20/2012		<0.002	<0.002	<0.002		<0.002	
7/12/2012		0.0025	<0.002	<0.002			
7/13/2012						<0.002	
1/21/2013		0.0022	<0.002	<0.002		0.0025	
7/20/2013		0.0075	<0.002	<0.002		<0.002	
1/17/2014		0.0039	<0.002	<0.002		<0.002	
7/11/2014			<0.002	<0.002			
7/12/2014		0.0031				<0.002	
1/15/2015		0.0026					
1/16/2015			<0.002	<0.002		<0.002	
7/15/2015		0.0032	<0.002	<0.002		<0.002	
1/16/2016				<0.002		<0.002	
1/17/2016		0.0029	<0.002				
6/22/2016		0.0036 (J)	<0.002				
6/23/2016				<0.002		<0.002	
8/31/2016		0.0027	<0.002				
9/1/2016				<0.002		0.0069 (o)	
1/24/2017		0.0034		<0.002			
1/25/2017			<0.002 (D)				
1/27/2017						<0.002 (D)	

Time Series

Constituent: Chromium (mg/L) Analysis Run 11/3/2022 1:05 PM View: Descriptive
 Plant McIntosh Client: Southern Company Data: McIntosh LF 3 CCR

	GWC-1A	GWC-2	GWC-4A	GWC-5	GWC-5A	GWC-6	GWC-6A
7/19/2017		0.0028					
7/20/2017			<0.002	<0.002		<0.002	
9/21/2017		0.0035	<0.002	<0.002			
9/22/2017						0.0015 (J)	
1/9/2018		0.003	<0.002				
1/10/2018				<0.002		<0.002	
3/28/2018			0.0019 (J)	<0.002			
3/29/2018		0.0032				<0.002	
7/10/2018		0.0033	0.0029				
7/11/2018				<0.002		0.0011 (J)	
10/9/2018		0.0039	<0.002	<0.002		<0.002	
1/30/2019			<0.002				
1/31/2019		0.0061		<0.002		<0.002	
3/28/2019		0.0049	<0.002	<0.002		0.0019 (J)	
9/12/2019		0.0048	0.0028	0.0051		0.0022	
3/11/2020						<0.002	
3/31/2020		0.005	<0.002	<0.002			
9/22/2020		0.0036	<0.002	<0.002		<0.002	
3/23/2021		0.0048					<0.002
3/24/2021	<0.002		<0.002	<0.002	<0.002	<0.002	
8/18/2021	<0.002	0.0064	<0.002	<0.002	<0.002	<0.002	<0.002
2/8/2022		0.0046			<0.002		
2/9/2022	<0.002		<0.002	<0.002		<0.002	<0.002
8/30/2022	<0.002	0.005	<0.002				
8/31/2022					0.0021	<0.002	<0.002
9/1/2022				0.014			

Time Series

Constituent: Cobalt (mg/L) Analysis Run 11/3/2022 1:05 PM View: Descriptive

Plant McIntosh Client: Southern Company Data: McIntosh LF 3 CCR

	GWA-1A (bg)	GWA-1B (bg)	GWA-2B (bg)	GWA-3A (bg)	GWA-4 (bg)	GWA-5 (bg)	GWA-7A (bg)	GWC-1
10/5/1999	<0.0025			<0.0025	<0.0025	<0.0025		<0.0025
11/12/1999	<0.0025			<0.0025	<0.0025	<0.0025		<0.0025
12/29/1999	<0.0025			<0.0025	<0.0025	<0.0025		<0.0025
2/17/2000	<0.0025			<0.0025	<0.0025	<0.0025		<0.0025
9/13/2000	<0.0025			<0.0025	<0.0025	<0.0025		<0.0025
11/10/2000	<0.0025			<0.0025	<0.0025	<0.0025		<0.0025
1/4/2001	<0.0025			<0.0025	<0.0025	<0.0025		<0.0025
12/11/2001	<0.0025			<0.0025	<0.0025	<0.0025		<0.0025
4/4/2002	<0.0025			<0.0025	<0.0025	<0.0025		<0.0025
12/6/2002	<0.0025			<0.0025	<0.0025	<0.0025		<0.0025
6/28/2003	<0.0025			<0.0025	<0.0025	0.018 (o)		<0.0025
12/13/2003	<0.0025			<0.0025	<0.0025	<0.0025		<0.0025
5/28/2004	<0.0025			<0.0025	<0.0025	<0.0025		<0.0025
12/10/2004	<0.0025			<0.0025	<0.0025	0.007		<0.0025
6/24/2005	<0.0025			<0.0025	<0.0025	0.0072		<0.0025
12/13/2005	<0.0025			<0.0025	<0.0025	0.0062		<0.0025
7/12/2006	0.0032			<0.0025	<0.0025	0.0048		<0.0025
12/1/2006	0.012 (o)			<0.0025	<0.0025	0.0032		<0.0025
6/21/2007	<0.0025			0.0025	<0.0025	0.0037		<0.0025
12/15/2007	<0.0025			<0.0025	<0.0025	<0.0025		<0.0025
6/21/2008					<0.0025			0.0048 (o)
6/22/2008	0.0031			<0.0025		0.0025		
12/6/2008				<0.0025	<0.0025	0.0025		<0.0025
12/7/2008	<0.0025							
7/10/2009				<0.0025				
7/11/2009	<0.0025				<0.0025	<0.0025		<0.0025
12/22/2009						0.0025		
12/23/2009	<0.0025			<0.0025	<0.0025			<0.0025
6/23/2010				<0.0025	<0.0025	<0.0025		<0.0025
6/24/2010	<0.0025							
1/8/2011				<0.0025	<0.0025	0.0026		<0.0025
1/9/2011	0.0031							
7/10/2011				<0.0025	<0.0025	<0.0025		<0.0025
7/11/2011	<0.0025							
1/19/2012				<0.0025	<0.0025			
1/20/2012	<0.0025					<0.0025		<0.0025
7/12/2012				<0.0025	<0.0025	0.002		<0.0025
7/13/2012	0.0015							
1/21/2013	0.0035			<0.0025	<0.0025	0.0014		<0.0025
7/20/2013	<0.0025			<0.0025	<0.0025	<0.0025		<0.0025
1/17/2014	0.0027			<0.0013 (J)	<0.0013 (J)	0.0019		<0.0025
7/12/2014	<0.0013 (J)			<0.0013 (J)	<0.0013 (J)	0.0026		<0.0025
1/15/2015				0.00086 (J)	0.00084 (J)			
1/16/2015	<0.0025					0.0021		<0.0025
7/15/2015	<0.0025			0.00087 (J)	0.00083 (J)	0.0023		<0.0025
1/16/2016	0.00059 (J)			0.0011 (J)	0.00092 (J)	0.002		<0.0025
6/22/2016	0.00085 (JD)			0.0009 (J)	0.0005 (J)	0.0007 (J)		<0.0025
8/31/2016				0.00095 (J)	0.00055 (J)	0.001 (J)		<0.0025
9/1/2016	0.023 (o)							
1/19/2017				0.00087 (J)	0.00041 (J)	0.00046 (J)		
1/23/2017								<0.0025
2/28/2017	0.00048 (J)							

Time Series

Constituent: Cobalt (mg/L) Analysis Run 11/3/2022 1:05 PM View: Descriptive

Plant McIntosh Client: Southern Company Data: McIntosh LF 3 CCR

	GWC-1A	GWC-2	GWC-4A	GWC-5	GWC-5A	GWC-6	GWC-6A
10/5/1999		<0.0025	<0.0025	<0.0025		<0.0025	
11/12/1999		<0.0025	<0.0025	<0.0025		<0.0025	
12/29/1999		<0.0025	<0.0025	<0.0025		<0.0025	
2/17/2000		<0.0025	<0.0025	<0.0025		<0.0025	
9/13/2000		0.01	<0.0025	<0.0025		<0.0025	
11/10/2000		<0.0025	<0.0025	<0.0025		<0.0025	
1/4/2001		<0.0025	<0.0025	<0.0025		<0.0025	
12/11/2001		<0.0025	<0.0025	<0.0025		<0.0025	
4/4/2002		<0.0025	<0.0025	<0.0025		<0.0025	
12/6/2002		<0.0025	<0.0025	0.0074		<0.0025	
6/28/2003		<0.0025	<0.0025	<0.0025		<0.0025	
12/13/2003		<0.0025	<0.0025	0.0086		<0.0025	
5/28/2004		<0.0025	<0.0025	0.0065		<0.0025	
12/10/2004		0.0062	<0.0025	0.0052		<0.0025	
6/24/2005		<0.0025	<0.0025	<0.0025		<0.0025	
12/13/2005		<0.0025	<0.0025	<0.0025		<0.0025	
7/12/2006		<0.0025	<0.0025	0.0055		<0.0025	
12/1/2006		<0.0025	<0.0025	0.0056		<0.0025	
6/21/2007		<0.0025	<0.0025	0.0055		<0.0025	
12/15/2007		<0.0025	<0.0025	0.0051		<0.0025	
6/21/2008			0.0025	0.0054			
6/22/2008		<0.0025				<0.0025	
12/6/2008		<0.0025	<0.0025				
12/7/2008				0.005		<0.0025	
7/11/2009		<0.0025	<0.0025	0.0049		<0.0025	
12/23/2009		<0.0025	<0.0025	0.0035		<0.0025	
6/23/2010		<0.0025	<0.0025	0.0039			
6/24/2010						<0.0025	
1/8/2011		<0.0025	<0.0025	0.0046			
1/9/2011						<0.0025	
7/10/2011		<0.0025	<0.0025	0.0036			
7/11/2011						<0.0025	
1/20/2012		<0.0025	<0.0025	0.0042		<0.0025	
7/12/2012		<0.0025	<0.0025	0.0037			
7/13/2012						<0.0025	
1/21/2013		<0.0025	<0.0025	0.0038		<0.0025	
7/20/2013		<0.0025	<0.0025	0.003		<0.0025	
1/17/2014		<0.0025	<0.0025	0.0036		<0.0013 (J)	
7/11/2014			<0.0025	0.0056			
7/12/2014		<0.0013 (J)				<0.0025	
1/15/2015		0.00096 (J)					
1/16/2015			0.00071 (J)	0.0042		<0.0025	
7/15/2015		0.0006 (J)	0.00064 (J)	0.0052		<0.0025	
1/16/2016				0.0056		0.00055 (J)	
1/17/2016		0.00069 (J)	0.00066 (J)				
6/22/2016		0.0011 (J)	0.0009 (J)				
6/23/2016				0.0073 (J)		0.0005 (J)	
8/31/2016		0.0006 (J)	0.0006 (J)				
9/1/2016				0.011		0.0014 (J)	
1/24/2017		0.00067 (J)		0.009			
1/25/2017			0.00047 (J)				
1/27/2017						0.00052 (J)	

Time Series

Constituent: Cobalt (mg/L) Analysis Run 11/3/2022 1:05 PM View: Descriptive
 Plant McIntosh Client: Southern Company Data: McIntosh LF 3 CCR

	GWC-1A	GWC-2	GWC-4A	GWC-5	GWC-5A	GWC-6	GWC-6A
7/19/2017		0.00079 (J)					
7/20/2017			<0.0025	0.0091		0.00062 (J)	
9/21/2017		0.00077 (J)	<0.0025	0.0093			
9/22/2017						0.00048 (J)	
1/9/2018		0.00092 (J)	0.00048 (J)				
1/10/2018				0.0097		<0.0025	
3/28/2018			0.00048 (J)	0.01			
3/29/2018		0.0008 (J)				0.00052 (J)	
7/10/2018		0.00097 (J)	0.00084 (J)				
7/11/2018				0.011		0.00064 (J)	
10/9/2018		<0.0025	<0.0025	0.012		<0.0025	
1/30/2019			0.00038 (J)				
1/31/2019		0.00092 (J)		0.013		0.00076 (J)	
3/28/2019		0.00072 (J)	<0.0025	0.013		0.0007 (J)	
9/12/2019		0.0009	0.00044 (J)	0.013		0.00077	
3/11/2020						0.00073	
3/31/2020		0.00061 (J)	0.00033 (J)	0.012			
9/22/2020		0.00092 (J)	0.00042 (J)	0.011		0.00058 (J)	
3/23/2021		0.00069 (J)					0.0034
3/24/2021	0.0063		0.00037 (J)	0.012	0.0023 (J)	0.00046 (J)	
8/18/2021	0.0053	0.0011 (J)	0.00034 (J)	0.013	0.0021 (J)	0.0005 (J)	0.0016 (J)
2/8/2022		0.0013 (J)			0.002 (J)		
2/9/2022	0.0044		0.00042 (J)	0.011		0.00059 (J)	0.0012 (J)
8/30/2022	0.0044	0.0012 (J)	0.00048 (J)				
8/31/2022					0.0018 (J)	0.00058 (J)	0.0012 (J)
9/1/2022				0.012			

Time Series

Constituent: Copper (mg/L) Analysis Run 11/3/2022 1:05 PM View: Descriptive

Plant McIntosh Client: Southern Company Data: McIntosh LF 3 CCR

	GWA-1A (bg)	GWA-1B (bg)	GWA-2B (bg)	GWA-3A (bg)	GWA-4 (bg)	GWA-5 (bg)	GWA-7A (bg)	GWC-1
10/5/1999	<0.002			<0.002	<0.002	<0.002		<0.002
11/12/1999	<0.002			<0.002	<0.002	<0.002		<0.002
12/29/1999	<0.002			<0.002	<0.002	<0.002		<0.002
2/17/2000	<0.002			<0.002	<0.002	<0.002		<0.002
9/13/2000	<0.002			<0.002	<0.002	<0.002		<0.002
11/10/2000	<0.002			<0.002	<0.002	<0.002		<0.002
1/4/2001	<0.002			<0.002	<0.002	<0.002		<0.002
12/11/2001	<0.002			<0.002	<0.002	<0.002		<0.002
4/4/2002	<0.002			<0.002	<0.002	<0.002		<0.002
12/6/2002	<0.002			<0.002	<0.002	0.0089 (o)		<0.002
6/28/2003	<0.002			<0.002	<0.002	0.019 (o)		<0.002
12/13/2003	<0.002			<0.002	<0.002	0.0067 (o)		<0.002
5/28/2004	0.0052			<0.002	<0.002	0.0057 (o)		<0.002
12/10/2004	<0.002			<0.002	<0.002	0.0027		<0.002
6/24/2005	<0.002			<0.002	<0.002	0.0038		<0.002
12/13/2005	<0.002			<0.002	<0.002	<0.002		<0.002
7/12/2006	0.0055			<0.002	<0.002	0.0033		0.0047 (o)
12/1/2006	<0.002			<0.002	<0.002	<0.002		<0.002
6/21/2007	0.0032			<0.002	<0.002	0.0035		<0.002
12/15/2007	<0.002			<0.002	<0.002	<0.002		<0.002
6/21/2008					<0.002			<0.002
6/22/2008	<0.002			<0.002		<0.002		<0.002
12/6/2008				<0.002	<0.002	<0.002		<0.002
12/7/2008	<0.002							
7/10/2009				<0.002				
7/11/2009	<0.002				<0.002	<0.002		<0.002
12/22/2009						0.0025		
12/23/2009	0.0025			<0.002	<0.002			<0.002
6/23/2010				<0.002	<0.002	<0.002		<0.002
6/24/2010	<0.002							
1/8/2011				<0.002	<0.002	<0.002		<0.002
1/9/2011	0.004							
7/10/2011				<0.002	<0.002	<0.002		<0.002
7/11/2011	<0.002							
1/19/2012				<0.002	<0.002			
1/20/2012	<0.002					<0.002		<0.002
7/12/2012				<0.002	<0.002	<0.002		<0.002
7/13/2012	<0.002							
1/21/2013	<0.002			<0.002	<0.002	<0.002		<0.002
7/20/2013	<0.002			<0.002	<0.002	<0.002		<0.002
1/17/2014	<0.005 (J)			<0.002	<0.002	<0.005 (J)		<0.002
7/12/2014	<0.005 (J)			<0.002	<0.002	<0.002		<0.002
1/15/2015				<0.002	<0.002			
1/16/2015	<0.002					<0.002		<0.002
7/15/2015	<0.002			<0.002	<0.002	<0.002		<0.002
1/16/2016	<0.002			<0.002	<0.002	<0.002		<0.002
6/22/2016	0.002 (JD)			0.00205 (JD)	<0.002	0.001		<0.002
1/19/2017				<0.002	<0.002	<0.002		
1/23/2017								<0.002
2/28/2017	<0.002							
7/17/2017	<0.002							
7/18/2017				<0.002	<0.002			

Time Series

Constituent: Copper (mg/L) Analysis Run 11/3/2022 1:05 PM View: Descriptive

Plant McIntosh Client: Southern Company Data: McIntosh LF 3 CCR

	GWC-1A	GWC-2	GWC-4A	GWC-5	GWC-5A	GWC-6	GWC-6A
10/5/1999		<0.002	<0.002	<0.002		<0.002	
11/12/1999		<0.002	<0.002	<0.002		<0.002	
12/29/1999		<0.002	<0.002	<0.002		<0.002	
2/17/2000		<0.002	<0.002	<0.002		<0.002	
9/13/2000		<0.002	<0.002	<0.002		<0.002	
11/10/2000		<0.002	<0.002	<0.002		<0.002	
1/4/2001		<0.002	<0.002	<0.002		<0.002	
12/11/2001		<0.002	<0.002	<0.002		<0.002	
4/4/2002		<0.002	<0.002	<0.002		<0.002	
12/6/2002		<0.002	<0.002	<0.002		<0.002	
6/28/2003		<0.002	<0.002	<0.002		<0.002	
12/13/2003		<0.002	<0.002	0.0026		<0.002	
5/28/2004		<0.002	<0.002	<0.002		<0.002	
12/10/2004		0.11 (o)	<0.002	<0.002		0.0044 (o)	
6/24/2005		<0.002	<0.002	<0.002		<0.002	
12/13/2005		<0.002	<0.002	<0.002		<0.002	
7/12/2006		<0.002	<0.002	<0.002		<0.002	
12/1/2006		<0.002	<0.002	<0.002		<0.002	
6/21/2007		<0.002	<0.002	<0.002		<0.002	
12/15/2007		<0.002	<0.002	<0.002		<0.002	
6/21/2008			<0.002	<0.002			
6/22/2008		<0.002				<0.002	
12/6/2008		<0.002	<0.002				
12/7/2008				<0.002		<0.002	
7/11/2009		<0.002	<0.002	<0.002		<0.002	
12/23/2009		<0.002	<0.002	<0.002		<0.002	
6/23/2010		<0.002	<0.002	<0.002			
6/24/2010						<0.002	
1/8/2011		<0.002	<0.002	<0.002			
1/9/2011						<0.002	
7/10/2011		<0.002	<0.002	<0.002			
7/11/2011						<0.002	
1/20/2012		<0.002	<0.002	<0.002		<0.002	
7/12/2012		<0.002	<0.002	<0.002			
7/13/2012						<0.002	
1/21/2013		<0.002	<0.002	<0.002		<0.002	
7/20/2013		<0.002	<0.002	<0.002		<0.002	
1/17/2014		0.0065 (o)	<0.002	<0.002		<0.002	
7/11/2014			<0.002	<0.002			
7/12/2014		<0.002				<0.002	
1/15/2015		<0.002					
1/16/2015			<0.002	<0.002		<0.002	
7/15/2015		<0.002	<0.002	<0.002		<0.002	
1/16/2016				<0.002		<0.002	
1/17/2016		<0.002	<0.002				
6/22/2016		0.0005 (J)	<0.002				
6/23/2016				0.0007 (J)		<0.002	
1/24/2017		<0.002		<0.002			
1/25/2017			<0.002				
1/27/2017						<0.002	
7/19/2017		<0.002					
7/20/2017			<0.002	<0.002		<0.002	

Time Series

Constituent: Copper (mg/L) Analysis Run 11/3/2022 1:05 PM View: Descriptive

Plant McIntosh Client: Southern Company Data: McIntosh LF 3 CCR

	GWC-1A	GWC-2	GWC-4A	GWC-5	GWC-5A	GWC-6	GWC-6A
1/9/2018		<0.002	<0.002				
1/10/2018				<0.002		<0.002	
7/10/2018		<0.002	<0.002				
7/11/2018				<0.002		<0.002	
1/30/2019			<0.002				
1/31/2019		<0.002		<0.002		<0.002	
3/28/2019		<0.002	<0.002	<0.002		<0.002	
9/12/2019		0.002	<0.002	0.00084 (J)		0.003	
3/11/2020						<0.002	
3/31/2020		<0.002	<0.002	<0.002			
9/22/2020		<0.002	<0.002	<0.002		<0.002	
3/23/2021		<0.002					<0.002
3/24/2021	0.001 (J)		<0.002	<0.002	<0.002	<0.002	
8/18/2021	0.00085 (J)	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002
2/8/2022		0.0019 (J)			<0.002		
2/9/2022	<0.002		<0.002	<0.002		<0.002	<0.002
8/30/2022	0.0019 (J)	<0.002	<0.002				
8/31/2022					<0.002	<0.002	<0.002
9/1/2022				0.0012 (J)			

Time Series

Constituent: Fluoride (mg/L) Analysis Run 11/3/2022 1:05 PM View: Descriptive

Plant McIntosh Client: Southern Company Data: McIntosh LF 3 CCR

	GWC-1A	GWC-2	GWC-4A	GWC-5	GWC-5A	GWC-6	GWC-6A
8/31/2016		<0.1	<0.1				
9/1/2016				<0.1			
1/24/2017		<0.1		0.84			
1/25/2017			<0.1				
1/27/2017						<0.1	
7/19/2017		<0.1					
7/20/2017			<0.1	0.62		<0.1	
9/21/2017		<0.1	<0.1	0.71			
9/22/2017						<0.1	
1/9/2018		<0.1	<0.1				
1/10/2018				0.81		<0.1	
3/28/2018			<0.1	0.45			
3/29/2018		<0.1				<0.1	
7/10/2018		<0.1	<0.1				
7/11/2018				0.37		<0.1	
10/9/2018		<0.1	<0.1	0.098 (J)		<0.1	
1/30/2019			<0.1				
1/31/2019		<0.1		0.063 (J)		<0.1	
3/28/2019		<0.1	<0.1	0.027 (J)		<0.1	
9/12/2019		<0.1	<0.1	0.078 (J)		<0.1	
3/11/2020						<0.1	
3/31/2020		0.043 (J)	0.028 (J)	0.16			
9/22/2020		<0.1	<0.1	0.1		<0.1	
3/23/2021		<0.1					<0.1
3/24/2021	0.046 (J)		<0.1	0.038 (J)	<0.1	<0.1	
8/18/2021	0.072 (J)	<0.1	<0.1	<0.1	<0.1	0.04 (J)	0.039 (J)
2/8/2022		<0.1			0.033 (J)		
2/9/2022	0.069 (J)		0.038 (J)	0.063 (J)		0.042 (J)	0.042 (J)
8/30/2022	0.071 (J)	<0.1	<0.1				
8/31/2022					<0.1	<0.1	<0.1
9/1/2022				<0.1			

Time Series

Constituent: Lead (mg/L) Analysis Run 11/3/2022 1:05 PM View: Descriptive

Plant McIntosh Client: Southern Company Data: McIntosh LF 3 CCR

	GWA-1A (bg)	GWA-1B (bg)	GWA-2B (bg)	GWA-3A (bg)	GWA-4 (bg)	GWA-5 (bg)	GWA-7A (bg)	GWC-1
10/5/1999	0.007			<0.001	<0.001	<0.001		<0.001
11/12/1999	0.0063 (o)			<0.001	<0.001	<0.001		<0.001
12/29/1999	0.016			<0.001	<0.001	<0.001		<0.001
2/17/2000	<0.001			<0.001	<0.001	<0.001		<0.001
9/13/2000	<0.001			<0.001	<0.001	<0.001		<0.001
11/10/2000	<0.001			<0.001	<0.001	<0.001		<0.001
1/4/2001	<0.001			<0.001	<0.001	<0.001		<0.001
12/11/2001	<0.001			<0.001	<0.001	<0.001		<0.001
4/4/2002	<0.001			<0.001	<0.001	<0.001		<0.001
12/6/2002	<0.001			<0.001	<0.001	0.011		<0.001
6/28/2003	<0.001			<0.001	<0.001	<0.001		<0.001
12/13/2003	<0.001			<0.001	<0.001	<0.001		<0.001
5/28/2004	0.015			<0.001	<0.001	<0.001		<0.001
12/10/2004	0.01			<0.001	<0.001	<0.001		<0.001
6/24/2005	<0.001			<0.001	<0.001	<0.001		<0.001
12/13/2005	<0.001			<0.001	<0.001	<0.001		<0.001
7/12/2006	0.013			<0.001	<0.001	<0.001		<0.001
12/1/2006	<0.001			<0.001	<0.001	<0.001		<0.001
6/21/2007	<0.001			<0.001	<0.001	<0.001		<0.001
12/15/2007	<0.001			<0.001	<0.001	<0.001		<0.001
6/21/2008					<0.001			<0.001
6/22/2008	<0.001			<0.001		<0.001		<0.001
12/6/2008				<0.001	<0.001	<0.001		<0.001
12/7/2008	<0.001							
7/10/2009				<0.001				
7/11/2009	<0.001				<0.001	<0.001		<0.001
12/22/2009						<0.001		
12/23/2009	<0.001			<0.001	<0.001			<0.001
6/23/2010				<0.001	<0.001	<0.001		<0.001
6/24/2010	<0.001							
1/8/2011				<0.001	<0.001	<0.001		<0.001
1/9/2011	<0.001							
7/10/2011				<0.001	<0.001	<0.001		<0.001
7/11/2011	<0.001							
1/19/2012				<0.001	<0.001			
1/20/2012	<0.001					<0.001		<0.001
7/12/2012				<0.001	<0.001	<0.001		<0.001
7/13/2012	<0.001							
1/21/2013	<0.001			<0.001	<0.001	<0.001		<0.001
7/20/2013	<0.001			<0.001	<0.001	<0.001		<0.001
1/17/2014	<0.001			<0.001	<0.001	<0.001		<0.001
7/12/2014	<0.001			<0.001	<0.001	<0.001		<0.001
1/15/2015				<0.001	<0.001			
1/16/2015	<0.001					<0.001		<0.001
7/15/2015	<0.001			<0.001	<0.001	<0.001		<0.001
1/16/2016	<0.001			<0.001	<0.001	<0.001		<0.001
6/22/2016	0.00125 (JD)			0.00025 (JD)	0.0003 (J)	0.001 (J)		<0.001
8/31/2016				<0.001	<0.001	0.00099 (J)		<0.001
9/1/2016	0.082 (o)							
1/19/2017				<0.001	<0.001	0.001 (J)		
1/23/2017								<0.001
2/28/2017	<0.001							

Time Series

Constituent: Lead (mg/L) Analysis Run 11/3/2022 1:05 PM View: Descriptive

Plant McIntosh Client: Southern Company Data: McIntosh LF 3 CCR

	GWC-1A	GWC-2	GWC-4A	GWC-5	GWC-5A	GWC-6	GWC-6A
10/5/1999		0.0054 (o)	<0.001	<0.001		<0.001	
11/12/1999		<0.001	<0.001	<0.001		<0.001	
12/29/1999		<0.001	<0.001	<0.001		<0.001	
2/17/2000		<0.001	<0.001	<0.001		<0.001	
9/13/2000		<0.001	0.0067 (o)	<0.001		0.079 (o)	
11/10/2000		<0.001	<0.001	<0.001		<0.001	
1/4/2001		<0.001	<0.001	<0.001		<0.001	
12/11/2001		<0.001	<0.001	<0.001		<0.001	
4/4/2002		<0.001	<0.001	<0.001		<0.001	
12/6/2002		<0.001	<0.001	0.007 (o)		<0.001	
6/28/2003		<0.001	<0.001	<0.001		<0.001	
12/13/2003		<0.001	<0.001	0.018 (o)		<0.001	
5/28/2004		<0.001	<0.001	<0.001		<0.001	
12/10/2004		<0.001	<0.001	<0.001		0.0073	
6/24/2005		<0.001	<0.001	<0.001		<0.001	
12/13/2005		<0.001	<0.001	<0.001		<0.001	
7/12/2006		<0.001	<0.001	<0.001		<0.001	
12/1/2006		<0.001	<0.001	<0.001		<0.001	
6/21/2007		<0.001	<0.001	<0.001		<0.001	
12/15/2007		<0.001	<0.001	<0.001		<0.001	
6/21/2008			<0.001	<0.001			
6/22/2008		<0.001				<0.001	
12/6/2008		<0.001	<0.001				
12/7/2008				<0.001		<0.001	
7/11/2009		<0.001	<0.001	<0.001		<0.001	
12/23/2009		<0.001	<0.001	<0.001		<0.001	
6/23/2010		<0.001	<0.001	<0.001		<0.001	
6/24/2010						<0.001	
1/8/2011		<0.001	<0.001	<0.001			
7/10/2011		<0.001	<0.001	<0.001			
7/11/2011						<0.001	
1/20/2012		<0.001	<0.001	<0.001		<0.001	
7/12/2012		<0.001	<0.001	<0.001			
7/13/2012						<0.001	
1/21/2013		<0.001	<0.001	<0.001		<0.001	
7/20/2013		<0.001	<0.001	<0.001		<0.001	
1/17/2014		<0.001	<0.001	<0.001		<0.001	
7/11/2014			<0.001	<0.001			
7/12/2014		<0.001				<0.001	
1/15/2015		<0.001					
1/16/2015			<0.001	<0.001		<0.001	
7/15/2015		<0.001	<0.001	<0.001		<0.001	
1/16/2016				<0.001		<0.001	
1/17/2016		<0.001	<0.001				
6/22/2016		0.0001 (J)	<0.001				
6/23/2016				0.0001 (J)		<0.001	
8/31/2016		<0.001	<0.001				
9/1/2016				<0.001		0.006	
1/24/2017		<0.001		<0.001			
1/25/2017			<0.001 (D)				
1/27/2017						<0.001 (D)	
7/19/2017		<0.001					

Time Series

Constituent: Lead (mg/L) Analysis Run 11/3/2022 1:05 PM View: Descriptive

Plant McIntosh Client: Southern Company Data: McIntosh LF 3 CCR

	GWC-1A	GWC-2	GWC-4A	GWC-5	GWC-5A	GWC-6	GWC-6A
7/20/2017			<0.001	<0.001		<0.001	
9/21/2017		0.0014 (o)	<0.001	<0.001			
9/22/2017						0.00042 (J)	
1/9/2018		<0.001	<0.001				
1/10/2018				<0.001		<0.001	
3/28/2018			<0.001	<0.001			
3/29/2018		<0.001				<0.001	
7/10/2018		<0.001	<0.001				
7/11/2018				<0.001		0.00037 (J)	
10/9/2018		<0.001	<0.001	<0.001		<0.001	
1/30/2019			<0.001				
1/31/2019		<0.001		<0.001		<0.001	
3/28/2019		<0.001	<0.001	<0.001		0.00052 (J)	
9/12/2019		<0.001	<0.001	0.00024 (J)		0.00065 (J)	
3/11/2020						<0.001	
3/31/2020		<0.001	<0.001	<0.001			
9/22/2020		<0.001	<0.001	0.00013 (J)		<0.001	
3/23/2021		<0.001					<0.001
3/24/2021	<0.001		<0.001	0.00034 (J)	0.0003 (J)	<0.001	
8/18/2021	<0.001	<0.001	<0.001	0.00032 (J)	0.00021 (J)	<0.001	<0.001
2/8/2022		<0.001			0.00061 (J)		
2/9/2022	<0.001		<0.001	0.00033 (J)		0.00039 (J)	<0.001
8/30/2022	<0.001	<0.001	<0.001				
8/31/2022					0.00027 (J)	<0.001	<0.001
9/1/2022				0.00031 (J)			

Time Series

Constituent: pH (S.U.) Analysis Run 11/3/2022 1:05 PM View: Descriptive

Plant McIntosh Client: Southern Company Data: McIntosh LF 3 CCR

	GWC-1A	GWC-2	GWC-4A	GWC-5	GWC-5A	GWC-6	GWC-6A
10/5/1999		6.08	5.33	6.13		5.84	
11/12/1999		5.35	4.6	5.81		5.34	
12/29/1999		5.19	4.8	5.43		5.01	
2/17/2000		5.18	4.98	5.49		5.04	
9/13/2000		5.13	4.75	5.05		5.29	
11/10/2000		5.2	4.65	5.48		5.99	
1/4/2001		5.14	4.83	4.99		5.31	
12/11/2001		4.93	4.73	5.52		5.18	
4/4/2002		5	5.05	5.5		5.31	
12/6/2002		5.02	4.65 (D)	4.58 (D)		4.9 (D)	
6/28/2003		4.92	4	4.32		4.82	
12/13/2003		4.82	4.97	4.73		4.8	
5/28/2004		4.6	4.51	4.5		5.18	
12/10/2004		4.29	4.09	4.28		4.43	
2/5/2005		4.43				4.6	
6/24/2005		4.56	4.27	4.56		4.93	
12/13/2005		4.34	4.54	4.49		4.36	
7/12/2006		4.38	4.57	4.8		5.5	
7/11/2014			4.64	4.83		5.54	
7/12/2014		5.68					
7/15/2015		5.22	4.67	4.66		5.22	
1/16/2016				5.05		4.9	
1/17/2016		6.07					
8/31/2016		5.49	4.89				
9/1/2016				7.21		5	
1/24/2017		5.25		8.32			
1/25/2017			4.73				
7/19/2017		5.54				5.27	
7/20/2017			4.96	7.41			
9/21/2017		5.19	4.78	6.94		4.99	
1/9/2018		4.97	4.79	7.39		5.25	
3/28/2018			4.44	7.31		5.14	
3/29/2018		5.15					
7/10/2018		5.37	4.88			5.13	
7/11/2018				7.09			
10/9/2018		5.04	4.85	6.68		4.93	
1/29/2019			4.7				
1/30/2019			4.52			4.52	
1/31/2019		5.38		5.69		4.52	
3/28/2019		5.38	4.68	5.46		4.85	
9/12/2019		5.14	4.89	5.96		4.96	
3/11/2020						5.23	
3/31/2020		5.64	4.66	6.17			
9/22/2020		5.04	4.92	5.87		4.73	
3/23/2021		5.61					5.31
3/24/2021	4.38		4.59	5.04	5.42	5.11	
8/18/2021	4.59	4.98	4.76	4.9	5.17	5.03	5.26
2/8/2022		4.79			5.2		
2/9/2022	4.53		4.82	4.82		5.05	5.31
8/30/2022	4.43	4.96	4.71				
8/31/2022					4.97	4.85	5.07
9/1/2022				4.29			

Time Series

Constituent: Sulfate (mg/L) Analysis Run 11/3/2022 1:05 PM View: Descriptive

Plant McIntosh Client: Southern Company Data: McIntosh LF 3 CCR

	GWC-1A	GWC-2	GWC-4A	GWC-5	GWC-5A	GWC-6	GWC-6A
8/31/2016		<1	1.7				
9/1/2016				110			
1/24/2017		<1		67			
1/25/2017			1.8				
1/27/2017						1.2	
7/19/2017		<1					
7/20/2017			0.83 (J)	25		0.84 (J)	
9/21/2017		<1	1.1	19			
9/22/2017						1.1	
1/9/2018		<1	0.79 (J)				
1/10/2018				25		0.95 (J)	
3/28/2018			0.79 (J)	26			
3/29/2018		<1				0.78 (J)	
7/10/2018		<1	0.76 (J)				
7/11/2018				26		0.78 (J)	
10/9/2018		<1	<1	10		0.79 (J)	
1/30/2019			0.9 (J)				
1/31/2019		0.57 (J)		4.8		0.86 (J)	
3/28/2019		<1	1.1	3		0.96 (J)	
9/12/2019		0.43 (J)	1.1	4.9		1	
3/11/2020						2.2	
3/31/2020		1	2.5	11			
9/22/2020		<1	0.76 (J)	4.3		0.59 (J)	
3/23/2021		0.8 (J)					10
3/24/2021	1		<1	<1	26	0.76 (J)	
8/18/2021	0.84 (J)	1.2	<1	<1	10	1.2	8.3
2/8/2022		2.7			5.9		
2/9/2022	<1		<1	<1		<1	5.4
8/30/2022	<1	1.1	<1				
8/31/2022					<1	0.41 (J)	3.5
9/1/2022				<1			

Time Series

Constituent: Total Dissolved Solids (mg/L) Analysis Run 11/3/2022 1:05 PM View: Descriptive
 Plant McIntosh Client: Southern Company Data: McIntosh LF 3 CCR

	GWC-1A	GWC-2	GWC-4A	GWC-5	GWC-5A	GWC-6	GWC-6A
8/31/2016		42 (D)	36 (D)				
9/1/2016				500 (D)			
1/24/2017		28 (D)		160 (D)			
1/25/2017			58 (D)				
1/27/2017						58 (D)	
7/19/2017		42					
7/20/2017			16	210		64	
9/21/2017		46	24	280			
9/22/2017						66	
1/9/2018		10	8				
1/10/2018				94		54	
3/28/2018			26	60			
3/29/2018		52				78	
7/10/2018		38	26				
7/11/2018				290		78	
10/9/2018		52	16	44		70	
1/30/2019			37				
1/31/2019		45		180		84	
3/28/2019		45	28	110		62	
9/12/2019		28	<10	110		80	
3/11/2020						67	
3/31/2020		50	52	750			
9/22/2020		30	36	440		30	
3/23/2021		56					71
3/24/2021	59		27	130	97	36	
8/18/2021	66	37	29	160	41	36	61
2/8/2022		30			48		
2/9/2022	62		22	110		86	100
8/30/2022	65	38	21				
8/31/2022					27	61	73
9/1/2022				140			

Time Series

Constituent: Vanadium (mg/L) Analysis Run 11/3/2022 1:05 PM View: Descriptive

Plant McIntosh Client: Southern Company Data: McIntosh LF 3 CCR

	GWA-1A (bg)	GWA-1B (bg)	GWA-2B (bg)	GWA-3A (bg)	GWA-4 (bg)	GWA-5 (bg)	GWA-7A (bg)	GWC-1
10/5/1999	0.02			<0.001	<0.001	<0.001		<0.001
11/12/1999	0.027			<0.001	<0.001	<0.001		<0.001
12/29/1999	0.055			<0.001	<0.001	<0.001		<0.001
2/17/2000	0.042			<0.001	<0.001	<0.001		<0.001
9/13/2000	<0.001			<0.001	<0.001	<0.001		<0.001
11/10/2000	0.014			<0.001	<0.001	<0.001		<0.001
1/4/2001	<0.001			<0.001	<0.001	<0.001		<0.001
12/11/2001	<0.001			<0.001	<0.001	<0.001		<0.001
4/4/2002	<0.001			<0.001	<0.001	<0.001		<0.001
12/6/2002	<0.001			<0.001	<0.001	0.03		<0.001
6/28/2003	<0.001			<0.001	<0.001	<0.001		<0.001
12/13/2003	<0.001			<0.001	<0.001	<0.001		<0.001
5/28/2004	0.017			<0.001	<0.001	<0.001		<0.001
12/10/2004	0.0082			<0.001	<0.001	<0.001		<0.001
6/24/2005	<0.001			<0.001	<0.001	<0.001		<0.001
12/13/2005	<0.001			<0.001	<0.001	<0.001		<0.001
7/12/2006	0.023			<0.001	<0.001	<0.001		<0.001
12/1/2006	0.0081			<0.001	<0.001	<0.001		<0.001
6/21/2007	0.009			0.0038	<0.001	0.07 (e)		<0.001
12/15/2007	0.0056			<0.001	<0.001	<0.001		<0.001
6/21/2008					<0.001			<0.001
6/22/2008	0.013			<0.001		0.0026		<0.001
12/6/2008				<0.001	<0.001	<0.001		<0.001
12/7/2008	0.0027							
7/10/2009				<0.001				
7/11/2009	0.0032				<0.001	<0.001		<0.001
12/22/2009						<0.001		
12/23/2009	0.0093			<0.001	<0.001			<0.001
6/23/2010				<0.001	<0.001	<0.001		<0.001
6/24/2010	0.0033							
1/8/2011				<0.001	<0.001	<0.001		<0.001
1/9/2011	<0.001							
7/10/2011				<0.001	<0.001	<0.001		<0.001
7/11/2011	<0.001							
1/19/2012				<0.001	<0.001			
1/20/2012	<0.001					<0.001		<0.001
7/12/2012				<0.001	<0.001	<0.001		<0.001
7/13/2012	0.011							
1/21/2013	0.028			<0.001	<0.001	<0.001		<0.001
7/20/2013	<0.001			<0.001	<0.001	<0.001		<0.001
1/17/2014	0.019			<0.001	<0.001	<0.001		<0.001
7/12/2014	<0.005 (J)			<0.001	<0.001	<0.001		<0.001
1/15/2015				<0.001	<0.001			
1/16/2015	0.0012 (J)					0.0011 (J)		<0.001
7/15/2015	<0.001			<0.001	<0.001	0.0016 (J)		<0.001
1/16/2016	0.0015 (J)			0.0011 (J)	0.00082 (J)	<0.001		<0.001
6/22/2016	0.0056 (JD)			<0.001	<0.001	0.0018 (J)		<0.001
1/19/2017				<0.001	0.0025	0.0033		
1/23/2017								0.0063
2/28/2017	0.0019 (J)							
7/17/2017	<0.001							
7/18/2017				<0.001	<0.001			

Time Series

Constituent: Vanadium (mg/L) Analysis Run 11/3/2022 1:05 PM View: Descriptive

Plant McIntosh Client: Southern Company Data: McIntosh LF 3 CCR

	GWC-1A	GWC-2	GWC-4A	GWC-5	GWC-5A	GWC-6	GWC-6A
10/5/1999		0.015 (o)	<0.001	<0.001		<0.001	
11/12/1999		<0.001	<0.001	<0.001		<0.001	
12/29/1999		<0.001	<0.001	<0.001		<0.001	
2/17/2000		<0.001	<0.001	<0.001		<0.001	
9/13/2000		<0.001	<0.001	<0.001		<0.001	
11/10/2000		<0.001	<0.001	<0.001		<0.001	
1/4/2001		<0.001	<0.001	<0.001		<0.001	
12/11/2001		<0.001	<0.001	<0.001		<0.001	
4/4/2002		<0.001	<0.001	<0.001		<0.001	
12/6/2002		<0.001	<0.001	0.0082		<0.001	
6/28/2003		<0.001	<0.001	<0.001		<0.001	
12/13/2003		<0.001	<0.001	0.017		<0.001	
5/28/2004		<0.001	<0.001	<0.001		<0.001	
12/10/2004		<0.001	<0.001	<0.001		<0.001	
6/24/2005		<0.001	<0.001	<0.001		<0.001	
12/13/2005		<0.001	<0.001	<0.001		<0.001	
7/12/2006		<0.001	<0.001	<0.001		<0.001	
12/1/2006		<0.001	<0.001	<0.001		<0.001	
6/21/2007		<0.001	<0.001	<0.001		<0.001	
12/15/2007		<0.001	<0.001	<0.001		<0.001	
6/21/2008			<0.001	<0.001			
6/22/2008		<0.001				<0.001	
12/6/2008		<0.001	<0.001				
12/7/2008				<0.001		<0.001	
7/11/2009		<0.001	<0.001	<0.001		<0.001	
12/23/2009		<0.001	<0.001	<0.001		<0.001	
6/23/2010		<0.001	<0.001	<0.001			
6/24/2010						<0.001	
1/8/2011		<0.001	<0.001	<0.001			
7/10/2011		<0.001	<0.001	<0.001			
7/11/2011						<0.001	
1/20/2012		<0.001	<0.001	<0.001		<0.001	
7/12/2012		<0.001	<0.001	<0.001			
7/13/2012						<0.001	
1/21/2013		<0.001	<0.001	<0.001		<0.001	
7/20/2013		<0.001	<0.001	<0.001		<0.001	
1/17/2014		<0.001	<0.001	<0.001		<0.001	
7/11/2014			<0.001	<0.001			
7/12/2014		<0.001				<0.001	
1/15/2015		<0.001					
1/16/2015			<0.001	<0.001		<0.001	
7/15/2015		<0.001	<0.001	<0.001		<0.001	
1/16/2016				<0.001		<0.001	
1/17/2016		<0.001	<0.001				
6/22/2016		0.0019 (J)	<0.001				
6/23/2016				0.0021 (J)		<0.001	
1/24/2017		0.0062		0.044 (o)			
1/25/2017			<0.001				
1/27/2017						<0.001	
7/19/2017		0.0015 (J)					
7/20/2017			<0.001	0.014		0.0021 (J)	
1/9/2018		<0.001	<0.001				

Time Series

Constituent: Vanadium (mg/L) Analysis Run 11/3/2022 1:05 PM View: Descriptive
Plant McIntosh Client: Southern Company Data: McIntosh LF 3 CCR

	GWC-1A	GWC-2	GWC-4A	GWC-5	GWC-5A	GWC-6	GWC-6A
1/10/2018				0.014		<0.001	
7/10/2018		<0.001	<0.001				
7/11/2018				0.011 (J)		<0.001	
1/30/2019			<0.001				
1/31/2019		<0.001		<0.001		<0.001	
3/28/2019		<0.001	<0.001	<0.001		<0.001	
9/12/2019		0.0018	0.0021	0.0044		0.0043	
3/11/2020						<0.001	
3/31/2020		<0.001	<0.001	0.0016			
9/22/2020		<0.001	<0.001	0.0015		0.0011	
3/23/2021		<0.001					<0.001
3/24/2021	<0.001		<0.001	<0.001	<0.001	<0.001	
8/18/2021	<0.001	<0.001	<0.001	<0.001	<0.001	0.0013	<0.001
2/8/2022		<0.001			<0.001		
2/9/2022	<0.001		<0.001	<0.001		0.0012	<0.001
8/30/2022	0.00087 (J)	<0.001	<0.001				
8/31/2022					<0.001	0.0013	<0.001
9/1/2022				<0.001			

Time Series

Constituent: Zinc (mg/L) Analysis Run 11/3/2022 1:05 PM View: Descriptive

Plant McIntosh Client: Southern Company Data: McIntosh LF 3 CCR

	GWA-1A (bg)	GWA-1B (bg)	GWA-2B (bg)	GWA-3A (bg)	GWA-4 (bg)	GWA-5 (bg)	GWA-7A (bg)	GWC-1
10/5/1999	0.043			0.023	0.039	<0.005		<0.005
11/12/1999	0.035			<0.005	0.025	<0.005		<0.005
12/29/1999	0.058			<0.005	0.023	<0.005		<0.005
2/17/2000	0.051			<0.005	<0.005	<0.005		<0.005
9/13/2000	<0.005			<0.005	0.035	0.021		<0.005
11/10/2000	<0.005			<0.005	0.023	<0.005		<0.005
1/4/2001	<0.005			<0.005	0.027	<0.005		<0.005
12/11/2001	<0.005			<0.005	0.036	<0.005		<0.005
4/4/2002	<0.005			<0.005	0.038	<0.005		<0.005
12/6/2002	<0.005			<0.005	0.033	0.06		0.011
6/28/2003	<0.005			<0.005	0.018	0.19 (o)		<0.005
12/13/2003	<0.005			<0.005	0.013	0.067		<0.005
5/28/2004	0.034			<0.005	<0.005	0.068		<0.005
12/10/2004	0.021			<0.005	<0.005	0.039		<0.005
6/24/2005	<0.005			<0.005	<0.005	0.033		<0.005
12/13/2005	0.013			<0.005	0.011	0.039		0.015
7/12/2006	0.074			0.0047	0.0055	0.022		0.0042
12/1/2006	0.048			0.065	0.0052	0.018		0.0047
6/21/2007	0.067			0.008	0.0062	0.058		0.0052
12/15/2007	0.053			0.0043	0.0055	0.0072		0.0046
6/21/2008					0.011			0.0067
6/22/2008	0.024			0.0062		0.011		
12/6/2008				0.051	0.008	0.011		0.0054
12/7/2008	0.0087							
7/10/2009				0.0043				
7/11/2009	0.045				0.011	0.013		0.0038
12/22/2009						0.013		
12/23/2009	0.054			0.0039	0.0051			0.0029
6/23/2010				<0.005	0.0031	0.0084		<0.005
6/24/2010	0.0065							
1/8/2011				0.0037	0.0035	0.0089		0.0032
1/9/2011	0.022							
7/10/2011				0.0047	0.0081	0.0084		0.004
7/11/2011	0.0032							
1/19/2012				0.0045	0.017			
1/20/2012	0.0089					0.0094		0.0067
7/12/2012				0.0033	0.01	0.0098		0.0036
7/13/2012	0.012							
1/21/2013	0.024			0.0038	0.013	0.007		0.0031
7/20/2013	0.0068			0.004	<0.005	0.0074		<0.005
1/17/2014	0.02			0.005	0.0066	0.0092		0.0031
7/12/2014	0.0055			0.004	0.0054	0.013		<0.0025 (J)
1/15/2015				0.0056	0.0076			
1/16/2015	0.0043					0.0081		0.002 (J)
7/15/2015	0.0026			0.0034	0.0053	0.009		0.0015 (J)
1/16/2016	0.0035			0.0038	0.0048	0.007		0.0015 (J)
6/22/2016	0.00805 (JD)			0.00575 (JD)	0.0038 (J)	0.0091 (J)		<0.005
1/19/2017				<0.005	<0.005	0.0065 (J)		
1/23/2017								<0.005
2/28/2017	<0.005							
7/17/2017	<0.005							
7/18/2017				<0.005	<0.005			

Time Series

Constituent: Zinc (mg/L) Analysis Run 11/3/2022 1:05 PM View: Descriptive

Plant McIntosh Client: Southern Company Data: McIntosh LF 3 CCR

	GWC-1A	GWC-2	GWC-4A	GWC-5	GWC-5A	GWC-6	GWC-6A
10/5/1999		0.028	<0.005	0.037		0.063 (o)	
11/12/1999		<0.005	<0.005	0.022		0.025	
12/29/1999		0.022	<0.005	0.036		0.024	
2/17/2000		0.021	<0.005	<0.005		<0.005	
9/13/2000		<0.005	0.036 (o)	0.027		0.061 (o)	
11/10/2000		<0.005	<0.005	<0.005		0.061 (o)	
1/4/2001		<0.005	<0.005	<0.005		0.05 (o)	
12/11/2001		<0.005	<0.005	<0.005		<0.005	
4/4/2002		0.069 (o)	<0.005	0.028		<0.005	
12/6/2002		0.012	0.012	0.028		0.013	
6/28/2003		0.011	<0.005	0.012		0.014	
12/13/2003		<0.005	<0.005	0.026		<0.005	
5/28/2004		<0.005	<0.005	0.018		<0.005	
12/10/2004		0.027	<0.005	0.029		<0.005	
6/24/2005		<0.005	<0.005	0.016		<0.005	
12/13/2005		0.011	<0.005	0.017		<0.005	
7/12/2006		0.0064	<0.005	0.013		0.0057	
12/1/2006		0.0077	0.098 (o)	0.03		0.0068	
6/21/2007		0.0082	0.0043	0.017		0.016	
12/15/2007		0.0063	0.0057	0.013		0.012	
6/21/2008			0.0064	0.016			
6/22/2008		0.0074				0.014	
12/6/2008		0.0066	0.0052				
12/7/2008				0.05		0.044 (o)	
7/11/2009		0.0054	0.0049	0.013		0.0062	
12/23/2009		0.0046	0.005	0.01		0.007	
6/23/2010		0.0041	0.0044	0.011			
6/24/2010						0.0049	
1/8/2011		0.019	0.0036	0.012			
7/10/2011		0.005	0.0046	0.0096			
7/11/2011						0.0052	
1/20/2012		0.007	0.0045	0.014		0.0081	
7/12/2012		0.0045	0.0041	0.01			
7/13/2012						0.004	
1/21/2013		0.0045	0.0038	0.011		0.0093	
7/20/2013		<0.005	0.0047	0.0089		0.0054	
1/17/2014		0.0075	0.0051	0.0098		0.0054	
7/11/2014			0.0066	0.014			
7/12/2014		0.0051				0.0057	
1/15/2015		0.0054					
1/16/2015			0.0046	0.011		0.0084	
7/15/2015		0.0049	0.0036	0.012		0.0046	
1/16/2016				0.014		0.0051	
1/17/2016		0.0051	0.004				
6/22/2016		0.0087 (J)	0.0053 (J)				
6/23/2016				0.0116		0.0041 (J)	
1/24/2017		0.0071 (J)		0.01 (J)			
1/25/2017			<0.005				
1/27/2017						<0.005	
7/19/2017		<0.005					
7/20/2017			<0.005	0.016 (J)		<0.005	
1/9/2018		0.0079 (J)	<0.005				

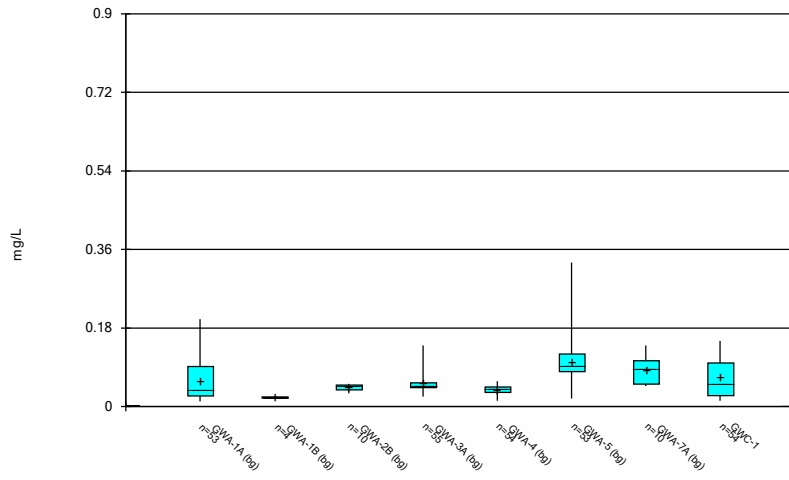
Time Series

Constituent: Zinc (mg/L) Analysis Run 11/3/2022 1:05 PM View: Descriptive
Plant McIntosh Client: Southern Company Data: McIntosh LF 3 CCR

	GWC-1A	GWC-2	GWC-4A	GWC-5	GWC-5A	GWC-6	GWC-6A
1/10/2018				0.012 (J)		<0.005	
7/10/2018		0.0067 (J)	<0.005				
7/11/2018				0.015 (J)		<0.005	
1/30/2019			0.0042 (J)				
1/31/2019		<0.005		0.033		<0.005	
3/28/2019		0.0069 (J)	<0.005	0.032		0.0084 (J)	
9/12/2019		0.0089	0.0093	0.033		0.011	
3/11/2020						0.0047 (J)	
3/31/2020		0.0065	<0.005	0.025			
9/22/2020		0.029	0.017	0.037		0.0053	
3/23/2021		0.0085					0.0091
3/24/2021	0.02		0.01	0.034	0.013	0.0043 (J)	
8/18/2021	0.15	0.0081	0.012	0.035	0.021	0.12	0.072
2/8/2022		0.0078			0.011		
2/9/2022	0.023		0.0039 (J)	0.03		0.0087	0.0069
8/30/2022	0.02	0.012	0.0046 (J)				
8/31/2022					0.014	0.0073	0.0049 (J)
9/1/2022				0.035			

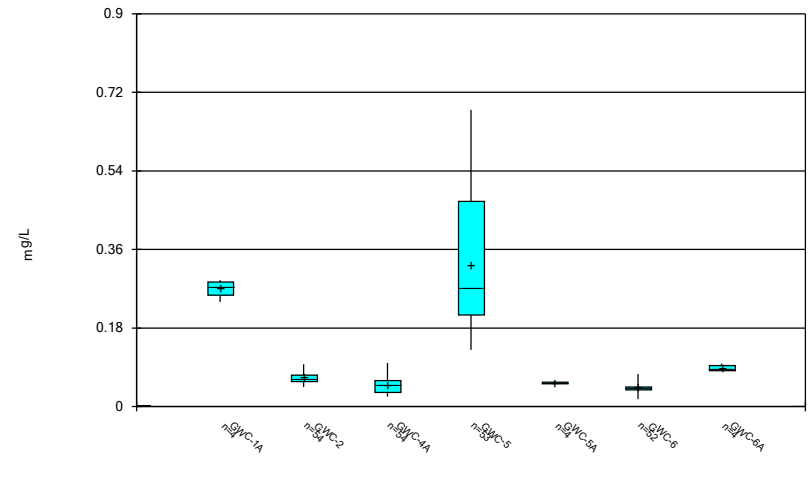
FIGURE B.

Box & Whiskers Plot



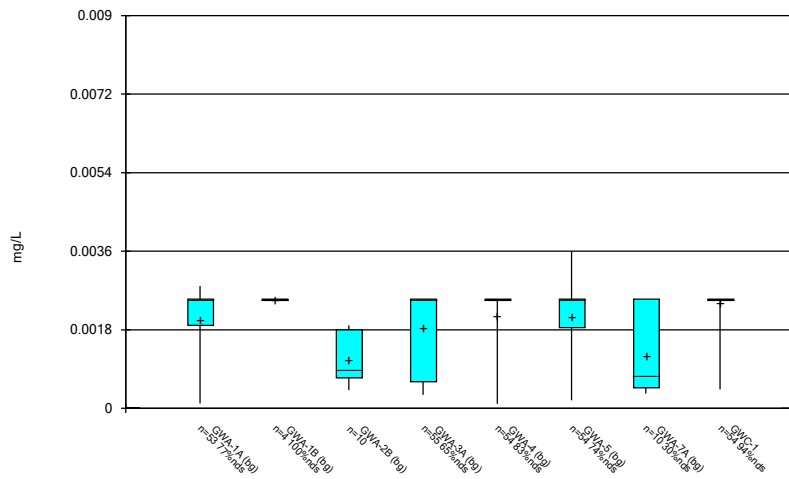
Constituent: Barium Analysis Run 11/3/2022 1:11 PM View: Descriptive
 Plant McIntosh Client: Southern Company Data: McIntosh LF 3 CCR

Box & Whiskers Plot



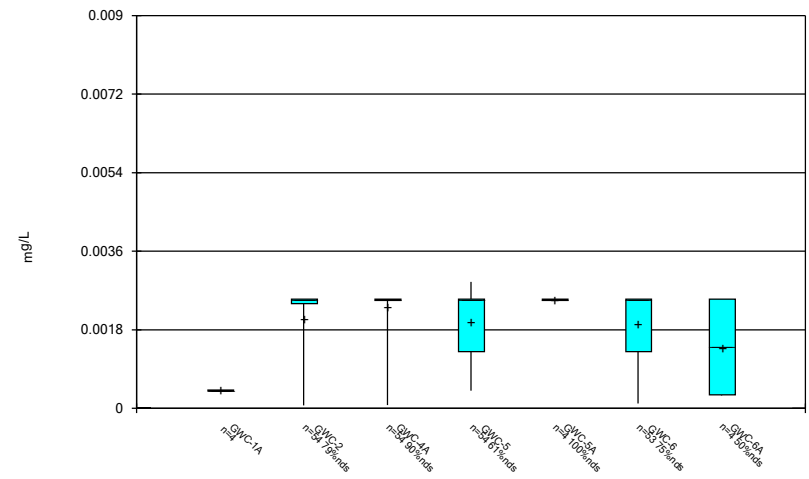
Constituent: Barium Analysis Run 11/3/2022 1:11 PM View: Descriptive
 Plant McIntosh Client: Southern Company Data: McIntosh LF 3 CCR

Box & Whiskers Plot



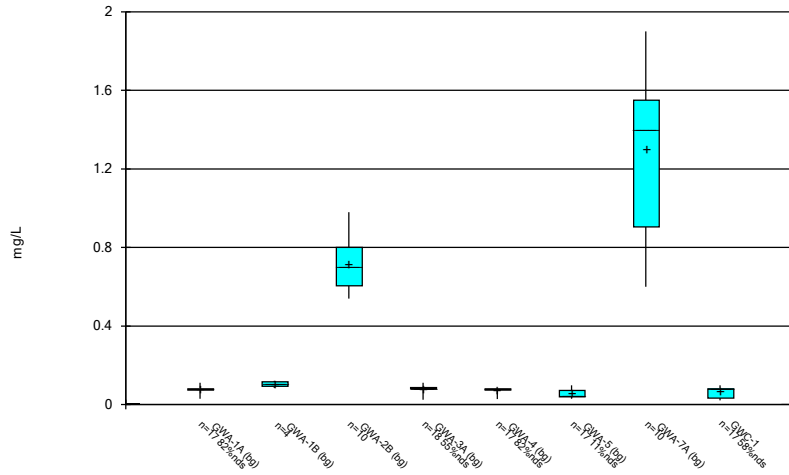
Constituent: Beryllium Analysis Run 11/3/2022 1:11 PM View: Descriptive
 Plant McIntosh Client: Southern Company Data: McIntosh LF 3 CCR

Box & Whiskers Plot



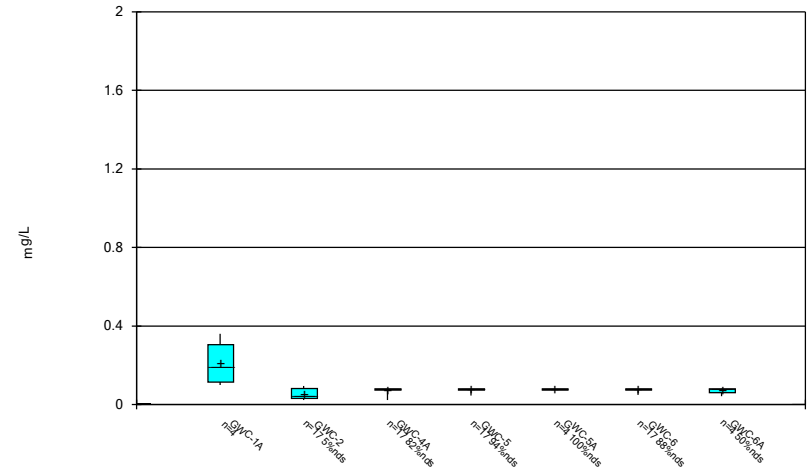
Constituent: Beryllium Analysis Run 11/3/2022 1:11 PM View: Descriptive
 Plant McIntosh Client: Southern Company Data: McIntosh LF 3 CCR

Box & Whiskers Plot



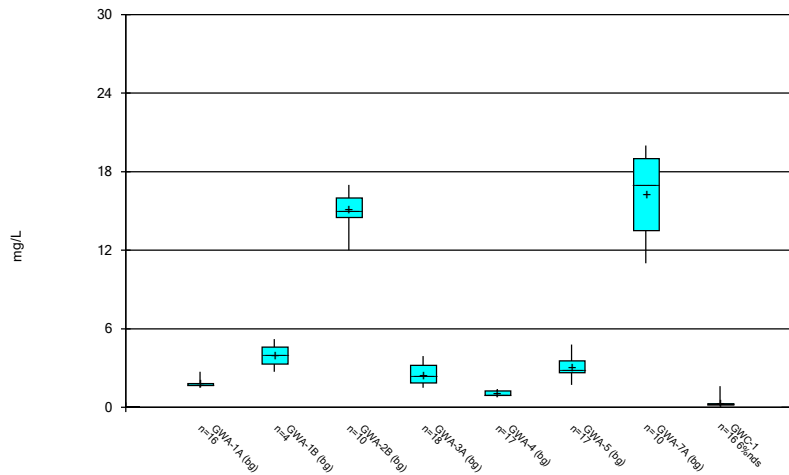
Constituent: Boron Analysis Run 11/3/2022 1:11 PM View: Descriptive
 Plant McIntosh Client: Southern Company Data: McIntosh LF 3 CCR

Box & Whiskers Plot



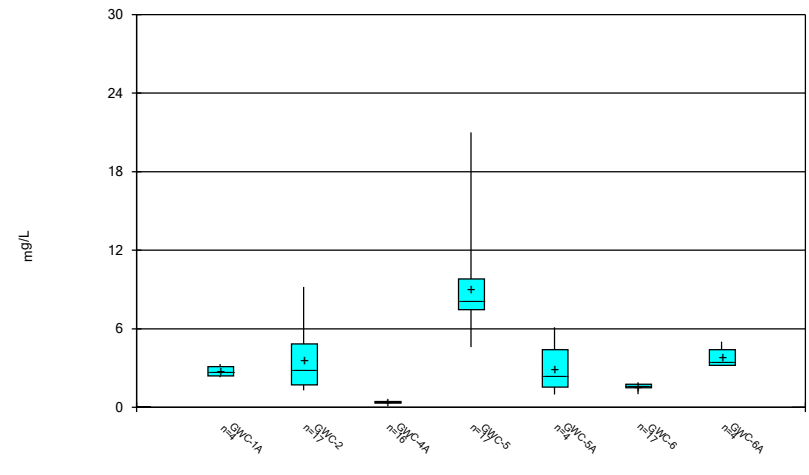
Constituent: Boron Analysis Run 11/3/2022 1:11 PM View: Descriptive
 Plant McIntosh Client: Southern Company Data: McIntosh LF 3 CCR

Box & Whiskers Plot



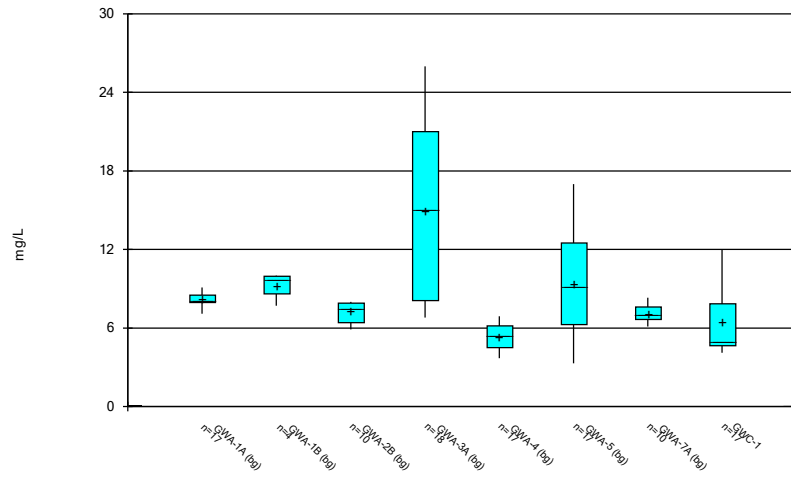
Constituent: Calcium Analysis Run 11/3/2022 1:11 PM View: Descriptive
 Plant McIntosh Client: Southern Company Data: McIntosh LF 3 CCR

Box & Whiskers Plot



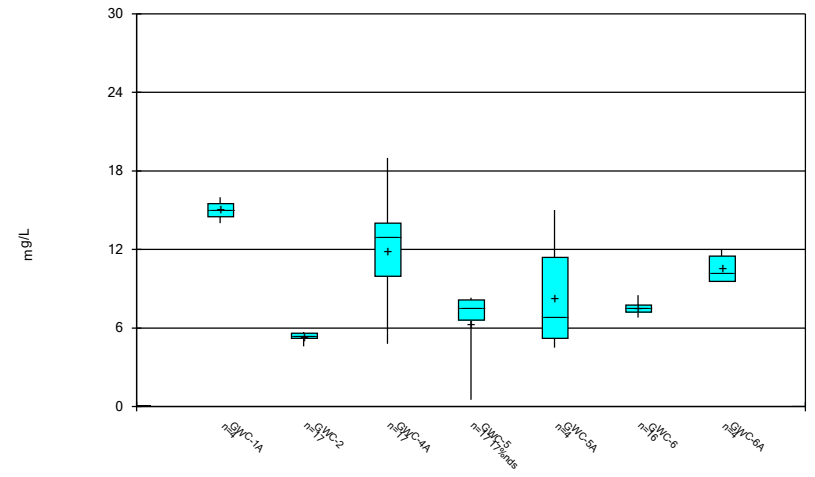
Constituent: Calcium Analysis Run 11/3/2022 1:11 PM View: Descriptive
 Plant McIntosh Client: Southern Company Data: McIntosh LF 3 CCR

Box & Whiskers Plot



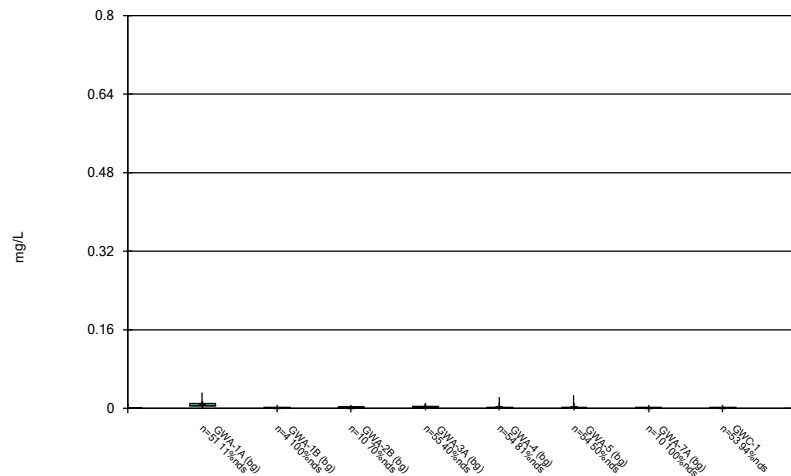
Constituent: Chloride Analysis Run 11/3/2022 1:11 PM View: Descriptive
 Plant McIntosh Client: Southern Company Data: McIntosh LF 3 CCR

Box & Whiskers Plot



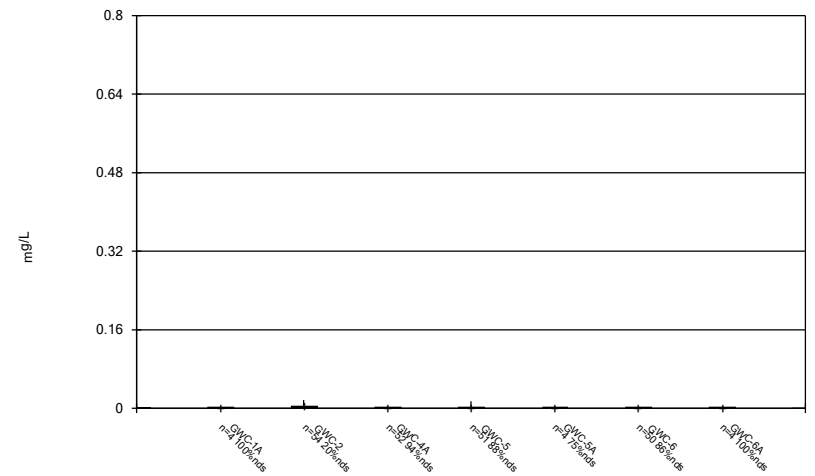
Constituent: Chloride Analysis Run 11/3/2022 1:11 PM View: Descriptive
 Plant McIntosh Client: Southern Company Data: McIntosh LF 3 CCR

Box & Whiskers Plot



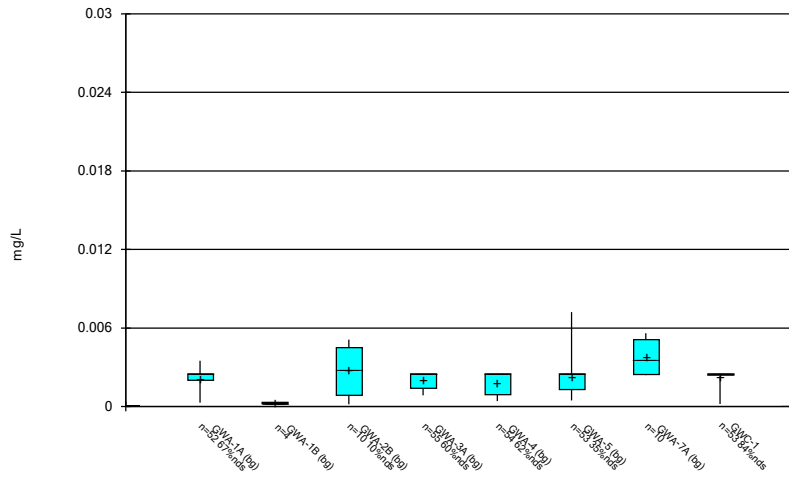
Constituent: Chromium Analysis Run 11/3/2022 1:11 PM View: Descriptive
 Plant McIntosh Client: Southern Company Data: McIntosh LF 3 CCR

Box & Whiskers Plot



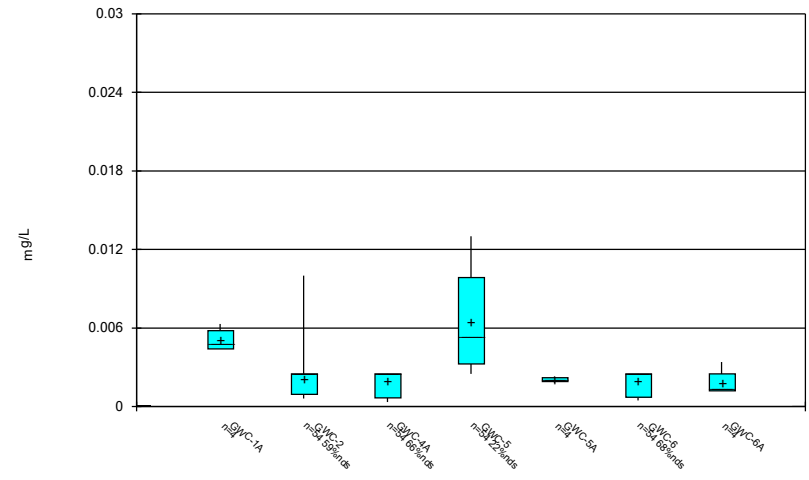
Constituent: Chromium Analysis Run 11/3/2022 1:11 PM View: Descriptive
 Plant McIntosh Client: Southern Company Data: McIntosh LF 3 CCR

Box & Whiskers Plot



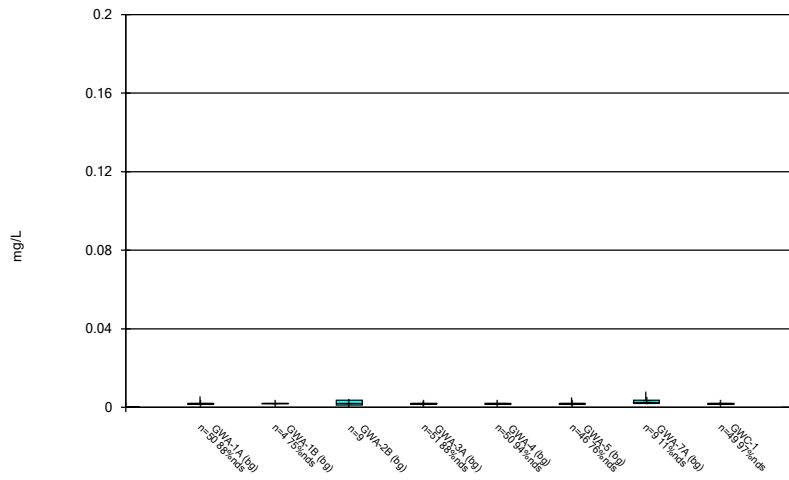
Constituent: Cobalt Analysis Run 11/3/2022 1:11 PM View: Descriptive
 Plant McIntosh Client: Southern Company Data: McIntosh LF 3 CCR

Box & Whiskers Plot



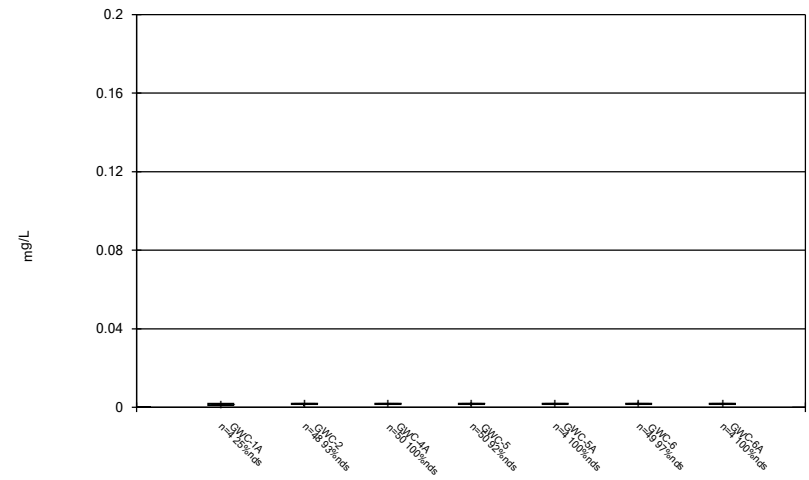
Constituent: Cobalt Analysis Run 11/3/2022 1:11 PM View: Descriptive
 Plant McIntosh Client: Southern Company Data: McIntosh LF 3 CCR

Box & Whiskers Plot



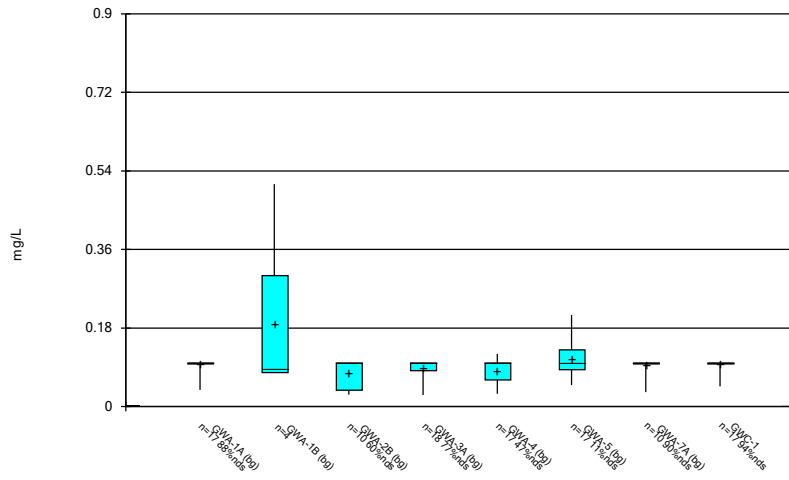
Constituent: Copper Analysis Run 11/3/2022 1:11 PM View: Descriptive
 Plant McIntosh Client: Southern Company Data: McIntosh LF 3 CCR

Box & Whiskers Plot



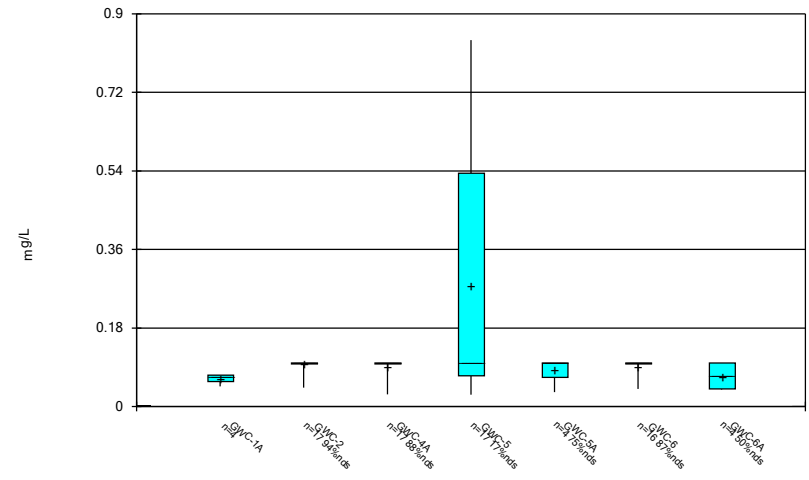
Constituent: Copper Analysis Run 11/3/2022 1:12 PM View: Descriptive
 Plant McIntosh Client: Southern Company Data: McIntosh LF 3 CCR

Box & Whiskers Plot



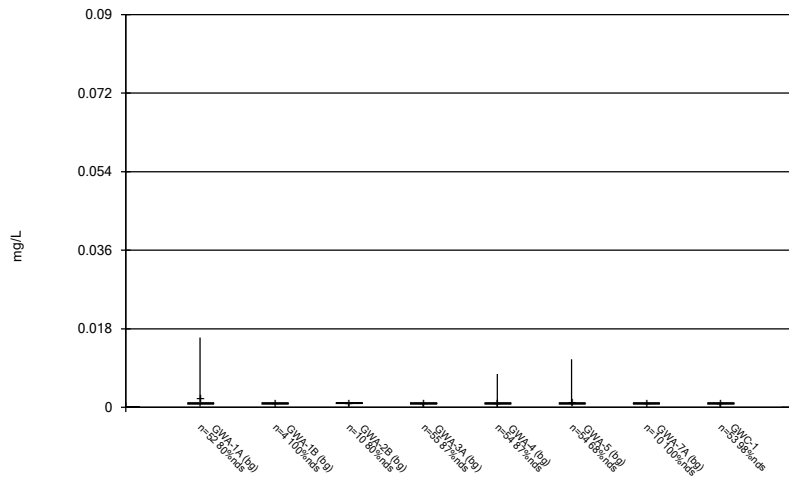
Constituent: Fluoride Analysis Run 11/3/2022 1:12 PM View: Descriptive
 Plant McIntosh Client: Southern Company Data: McIntosh LF 3 CCR

Box & Whiskers Plot



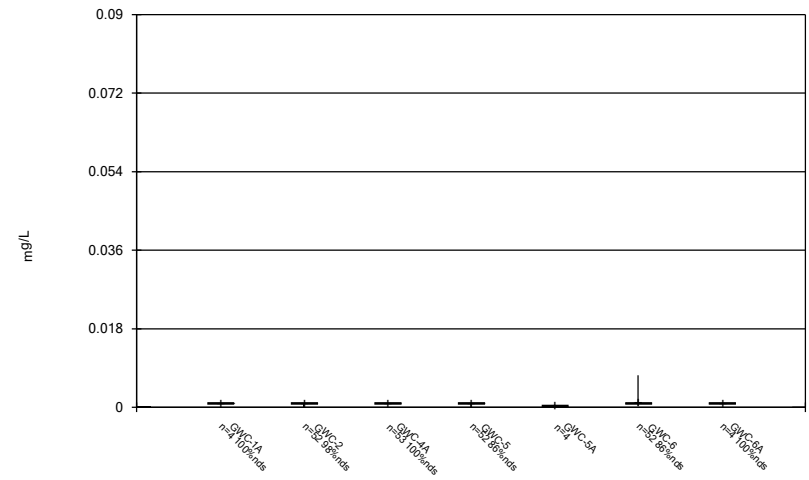
Constituent: Fluoride Analysis Run 11/3/2022 1:12 PM View: Descriptive
 Plant McIntosh Client: Southern Company Data: McIntosh LF 3 CCR

Box & Whiskers Plot



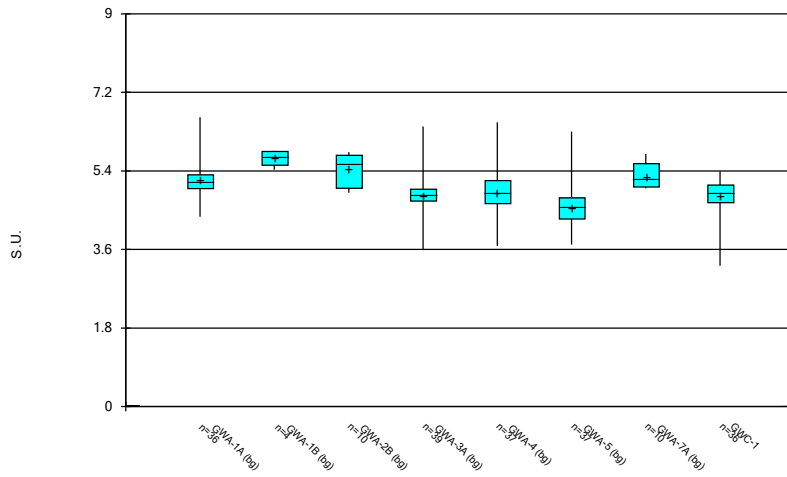
Constituent: Lead Analysis Run 11/3/2022 1:12 PM View: Descriptive
 Plant McIntosh Client: Southern Company Data: McIntosh LF 3 CCR

Box & Whiskers Plot



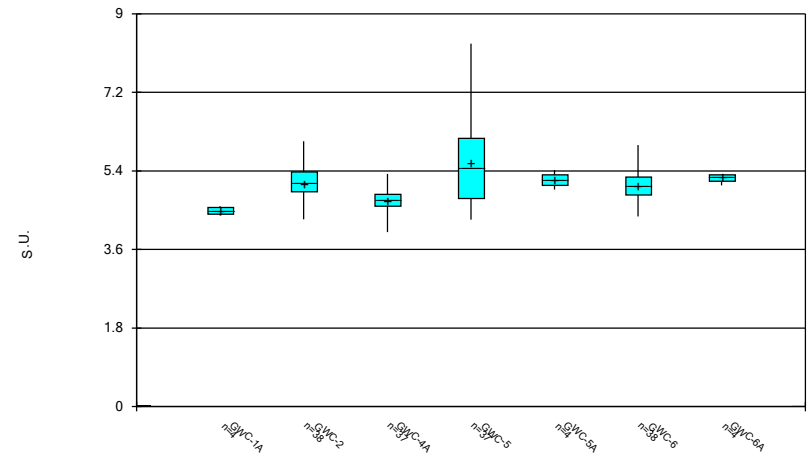
Constituent: Lead Analysis Run 11/3/2022 1:12 PM View: Descriptive
 Plant McIntosh Client: Southern Company Data: McIntosh LF 3 CCR

Box & Whiskers Plot



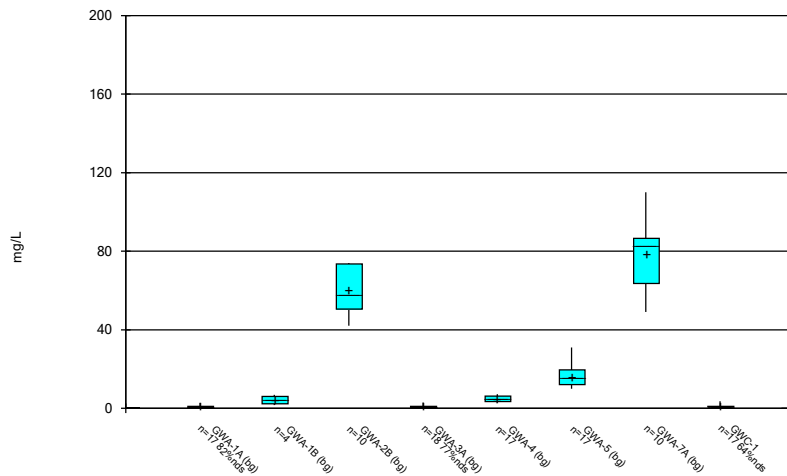
Constituent: pH Analysis Run 11/3/2022 1:12 PM View: Descriptive
 Plant McIntosh Client: Southern Company Data: McIntosh LF 3 CCR

Box & Whiskers Plot



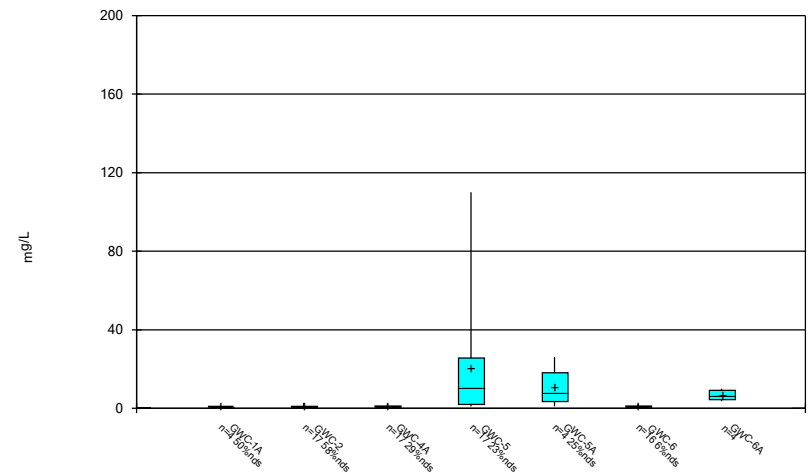
Constituent: pH Analysis Run 11/3/2022 1:12 PM View: Descriptive
 Plant McIntosh Client: Southern Company Data: McIntosh LF 3 CCR

Box & Whiskers Plot



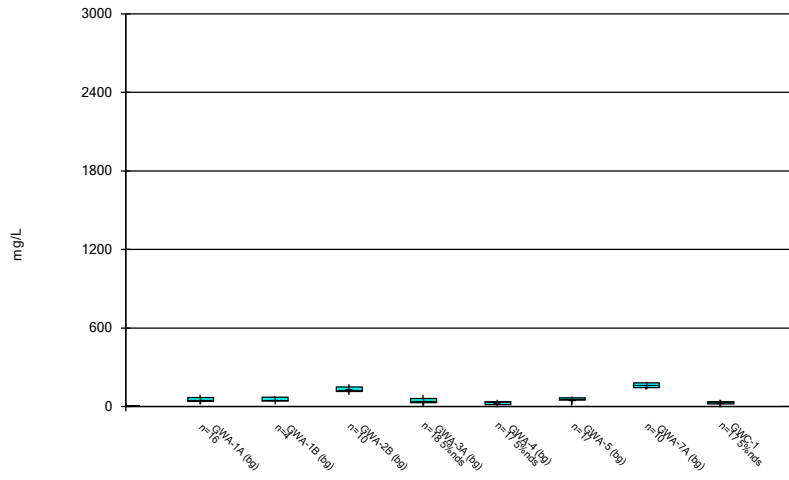
Constituent: Sulfate Analysis Run 11/3/2022 1:12 PM View: Descriptive
 Plant McIntosh Client: Southern Company Data: McIntosh LF 3 CCR

Box & Whiskers Plot



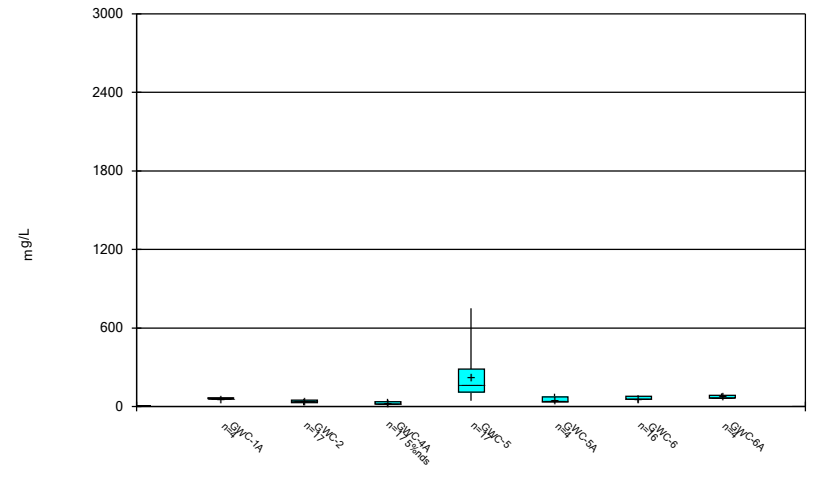
Constituent: Sulfate Analysis Run 11/3/2022 1:12 PM View: Descriptive
 Plant McIntosh Client: Southern Company Data: McIntosh LF 3 CCR

Box & Whiskers Plot



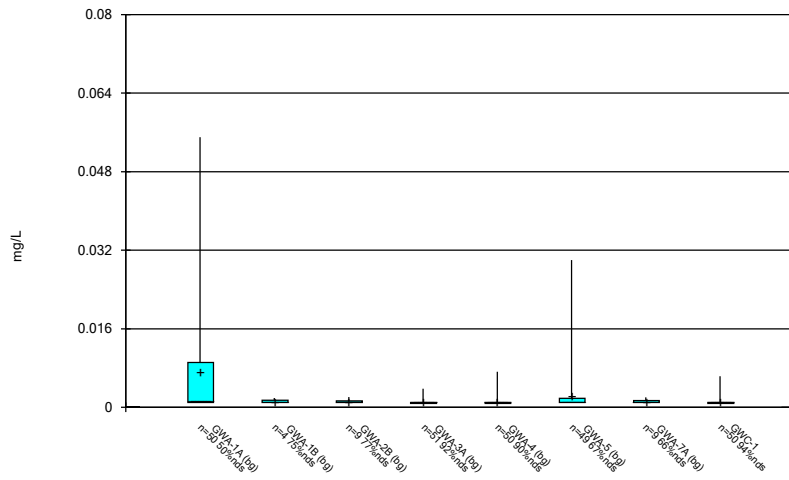
Constituent: Total Dissolved Solids Analysis Run 11/3/2022 1:12 PM View: Descriptive
 Plant McIntosh Client: Southern Company Data: McIntosh LF 3 CCR

Box & Whiskers Plot



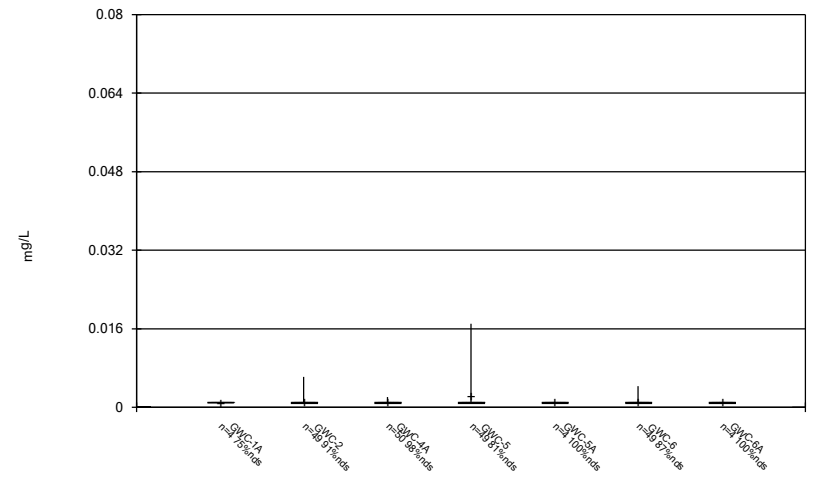
Constituent: Total Dissolved Solids Analysis Run 11/3/2022 1:12 PM View: Descriptive
 Plant McIntosh Client: Southern Company Data: McIntosh LF 3 CCR

Box & Whiskers Plot



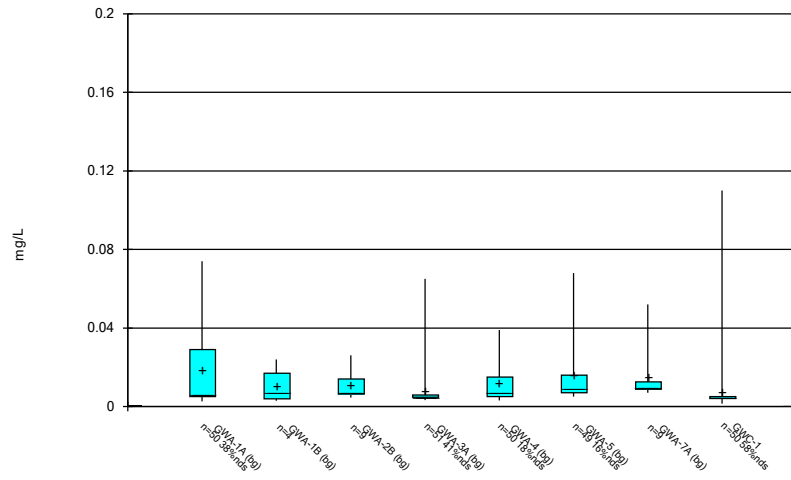
Constituent: Vanadium Analysis Run 11/3/2022 1:12 PM View: Descriptive
 Plant McIntosh Client: Southern Company Data: McIntosh LF 3 CCR

Box & Whiskers Plot



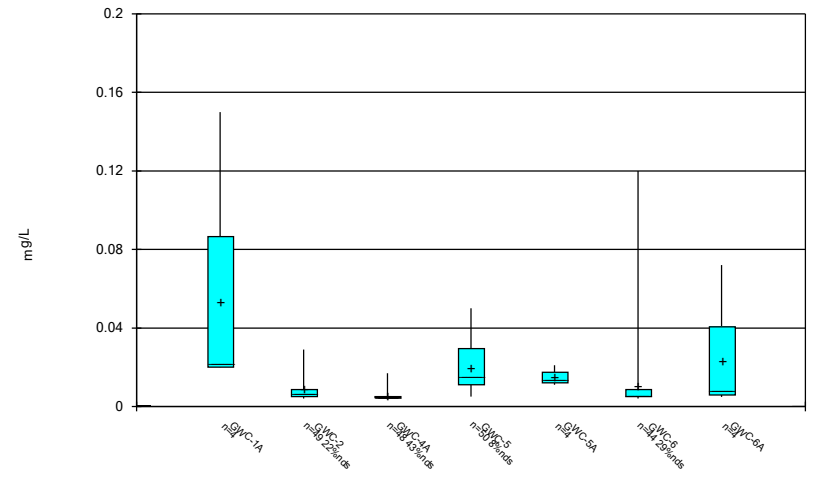
Constituent: Vanadium Analysis Run 11/3/2022 1:12 PM View: Descriptive
 Plant McIntosh Client: Southern Company Data: McIntosh LF 3 CCR

Box & Whiskers Plot



Constituent: Zinc Analysis Run 11/3/2022 1:12 PM View: Descriptive
Plant McIntosh Client: Southern Company Data: McIntosh LF 3 CCR

Box & Whiskers Plot



Constituent: Zinc Analysis Run 11/3/2022 1:12 PM View: Descriptive
Plant McIntosh Client: Southern Company Data: McIntosh LF 3 CCR

FIGURE C.

Outlier Summary

Plant McIntosh Client: Southern Company Data: McIntosh LF 3 CCR Printed 11/3/2022, 1:20 PM

GWA-1A Barium (mg/L) GWA-5 Barium (mg/L) GWC-5 Barium (mg/L) GWC-6 Barium (mg/L) GWA-1A Beryllium (mg/L) GWC-6 Beryllium (mg/L) GWA-1A Calcium (mg/L) GWC-1 Calcium (mg/L) GWC-4A Calcium (mg/L) GWA-1A Chromium (mg/L)

10/5/1999									
11/12/1999									
12/29/1999								0.059 (o)	
2/17/2000								0.048 (o)	
9/13/2000									
11/10/2000									
1/4/2001									
4/4/2002									
12/6/2002									
6/28/2003									
12/13/2003									
5/28/2004									
12/10/2004					0.0058 (o)				
7/12/2006									
12/1/2006		0.019 (o)							
6/21/2007									
6/21/2008									
12/7/2008			0.12 (o)						
1/17/2014									
9/1/2016	0.86 (o)			0.0084 (o)		26 (o)			0.12 (o)
1/23/2017							1.3 (o)		
1/24/2017									
9/21/2017									
7/10/2018		0.14 (o)						2 (o)	

Outlier Summary

Plant McIntosh Client: Southern Company Data: McIntosh LF 3 CCR Printed 11/3/2022, 1:20 PM

	GWC-2 Vanadium (mg/L)	GWC-5 Vanadium (mg/L)	GWA-5 Zinc (mg/L)	GWC-2 Zinc (mg/L)	GWC-4A Zinc (mg/L)	GWC-6 Zinc (mg/L)
10/5/1999	0.015 (o)					0.063 (o)
11/12/1999						
12/29/1999						
2/17/2000						
9/13/2000				0.036 (o)		0.061 (o)
11/10/2000						0.061 (o)
1/4/2001						0.05 (o)
4/4/2002			0.069 (o)			
12/6/2002						
6/28/2003		0.19 (o)				
12/13/2003						
5/28/2004						
12/10/2004						
7/12/2006						
12/1/2006				0.098 (o)		
6/21/2007						
6/21/2008						
12/7/2008						0.044 (o)
1/17/2014						
9/1/2016						
1/23/2017						
1/24/2017	0.044 (o)					
9/21/2017						
7/10/2018						

FIGURE D.

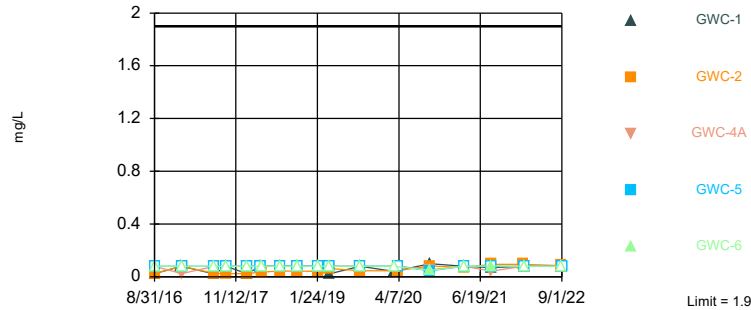
Interwell Prediction Limit Appendix III - All Results (No Significant)

Plant McIntosh Client: Southern Company Data: McIntosh LF 3 CCR Printed 11/5/2022, 3:56 PM

Constituent	Well	Upper Lim.	Lower Lim.	Date	Observ.	Sig.	Bg	NBg	Mean	Std. Dev.	%NDs	ND Adj.	Transform	Alpha	Method
Boron (mg/L)	GWC-1	1.9	n/a	8/31/2022	0.08ND	No	93	n/a	n/a	43.01	n/a	n/a	n/a	0.0002244	NP Inter (normality) 1 of 2
Boron (mg/L)	GWC-2	1.9	n/a	8/30/2022	0.085	No	93	n/a	n/a	43.01	n/a	n/a	n/a	0.0002244	NP Inter (normality) 1 of 2
Boron (mg/L)	GWC-4A	1.9	n/a	8/30/2022	0.08ND	No	93	n/a	n/a	43.01	n/a	n/a	n/a	0.0002244	NP Inter (normality) 1 of 2
Boron (mg/L)	GWC-5	1.9	n/a	9/1/2022	0.08ND	No	93	n/a	n/a	43.01	n/a	n/a	n/a	0.0002244	NP Inter (normality) 1 of 2
Boron (mg/L)	GWC-6	1.9	n/a	8/31/2022	0.08ND	No	93	n/a	n/a	43.01	n/a	n/a	n/a	0.0002244	NP Inter (normality) 1 of 2
Calcium (mg/L)	GWC-1	20	n/a	8/31/2022	0.31J	No	92	n/a	n/a	0	n/a	n/a	n/a	0.0002288	NP Inter (normality) 1 of 2
Calcium (mg/L)	GWC-2	20	n/a	8/30/2022	1.4	No	92	n/a	n/a	0	n/a	n/a	n/a	0.0002288	NP Inter (normality) 1 of 2
Calcium (mg/L)	GWC-4A	20	n/a	8/30/2022	0.39J	No	92	n/a	n/a	0	n/a	n/a	n/a	0.0002288	NP Inter (normality) 1 of 2
Calcium (mg/L)	GWC-5	20	n/a	9/1/2022	5.2	No	92	n/a	n/a	0	n/a	n/a	n/a	0.0002288	NP Inter (normality) 1 of 2
Calcium (mg/L)	GWC-6	20	n/a	8/31/2022	1.5	No	92	n/a	n/a	0	n/a	n/a	n/a	0.0002288	NP Inter (normality) 1 of 2
Chloride (mg/L)	GWC-1	26	n/a	8/31/2022	12	No	93	n/a	n/a	0	n/a	n/a	n/a	0.0002244	NP Inter (normality) 1 of 2
Chloride (mg/L)	GWC-2	26	n/a	8/30/2022	4.8	No	93	n/a	n/a	0	n/a	n/a	n/a	0.0002244	NP Inter (normality) 1 of 2
Chloride (mg/L)	GWC-4A	26	n/a	8/30/2022	4.8	No	93	n/a	n/a	0	n/a	n/a	n/a	0.0002244	NP Inter (normality) 1 of 2
Chloride (mg/L)	GWC-5	26	n/a	9/1/2022	7	No	93	n/a	n/a	0	n/a	n/a	n/a	0.0002244	NP Inter (normality) 1 of 2
Chloride (mg/L)	GWC-6	26	n/a	8/31/2022	7.3	No	93	n/a	n/a	0	n/a	n/a	n/a	0.0002244	NP Inter (normality) 1 of 2
Fluoride (mg/L)	GWC-1	0.51	n/a	8/31/2022	0.1ND	No	93	n/a	n/a	58.06	n/a	n/a	n/a	0.0002244	NP Inter (NDs) 1 of 2
Fluoride (mg/L)	GWC-2	0.51	n/a	8/30/2022	0.1ND	No	93	n/a	n/a	58.06	n/a	n/a	n/a	0.0002244	NP Inter (NDs) 1 of 2
Fluoride (mg/L)	GWC-4A	0.51	n/a	8/30/2022	0.1ND	No	93	n/a	n/a	58.06	n/a	n/a	n/a	0.0002244	NP Inter (NDs) 1 of 2
Fluoride (mg/L)	GWC-5	0.51	n/a	9/1/2022	0.1ND	No	93	n/a	n/a	58.06	n/a	n/a	n/a	0.0002244	NP Inter (NDs) 1 of 2
Fluoride (mg/L)	GWC-6	0.51	n/a	8/31/2022	0.1ND	No	93	n/a	n/a	58.06	n/a	n/a	n/a	0.0002244	NP Inter (NDs) 1 of 2
pH (S.U.)	GWC-1	5.834	4.041	8/31/2022	4.69	No	173	4.937	0.5015	0	None	No	0.000752	Param Inter 1 of 2	
pH (S.U.)	GWC-2	5.834	4.041	8/30/2022	4.96	No	173	4.937	0.5015	0	None	No	0.000752	Param Inter 1 of 2	
pH (S.U.)	GWC-4A	5.834	4.041	8/30/2022	4.71	No	173	4.937	0.5015	0	None	No	0.000752	Param Inter 1 of 2	
pH (S.U.)	GWC-5	5.834	4.041	9/1/2022	4.29	No	173	4.937	0.5015	0	None	No	0.000752	Param Inter 1 of 2	
pH (S.U.)	GWC-6	5.834	4.041	8/31/2022	4.85	No	173	4.937	0.5015	0	None	No	0.000752	Param Inter 1 of 2	
Sulfate (mg/L)	GWC-1	110	n/a	8/31/2022	1ND	No	93	n/a	n/a	30.11	n/a	n/a	n/a	0.0002244	NP Inter (normality) 1 of 2
Sulfate (mg/L)	GWC-2	110	n/a	8/30/2022	1.1	No	93	n/a	n/a	30.11	n/a	n/a	n/a	0.0002244	NP Inter (normality) 1 of 2
Sulfate (mg/L)	GWC-4A	110	n/a	8/30/2022	1ND	No	93	n/a	n/a	30.11	n/a	n/a	n/a	0.0002244	NP Inter (normality) 1 of 2
Sulfate (mg/L)	GWC-5	110	n/a	9/1/2022	1ND	No	93	n/a	n/a	30.11	n/a	n/a	n/a	0.0002244	NP Inter (normality) 1 of 2
Sulfate (mg/L)	GWC-6	110	n/a	8/31/2022	0.41J	No	93	n/a	n/a	30.11	n/a	n/a	n/a	0.0002244	NP Inter (normality) 1 of 2
Total Dissolved Solids (mg/L)	GWC-1	166.2	n/a	8/31/2022	37	No	92	7.688	2.879	2.174	None	sqrt(x)	0.001504	Param Inter 1 of 2	
Total Dissolved Solids (mg/L)	GWC-2	166.2	n/a	8/30/2022	38	No	92	7.688	2.879	2.174	None	sqrt(x)	0.001504	Param Inter 1 of 2	
Total Dissolved Solids (mg/L)	GWC-4A	166.2	n/a	8/30/2022	21	No	92	7.688	2.879	2.174	None	sqrt(x)	0.001504	Param Inter 1 of 2	
Total Dissolved Solids (mg/L)	GWC-5	166.2	n/a	9/1/2022	140	No	92	7.688	2.879	2.174	None	sqrt(x)	0.001504	Param Inter 1 of 2	
Total Dissolved Solids (mg/L)	GWC-6	166.2	n/a	8/31/2022	61	No	92	7.688	2.879	2.174	None	sqrt(x)	0.001504	Param Inter 1 of 2	

Within Limit

Prediction Limit
Interwell Non-parametric

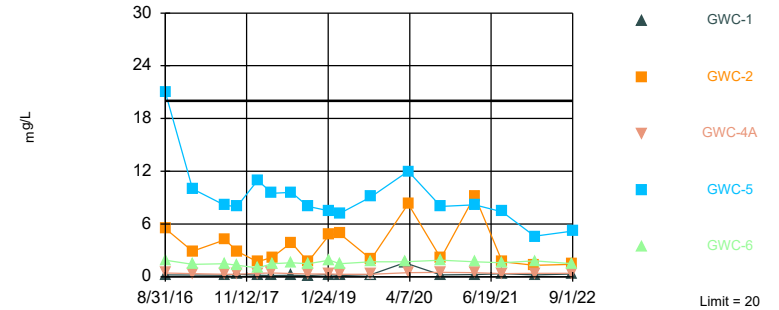


Non-parametric test used in lieu of parametric prediction limit because the Shapiro Francia normality test showed the data to be non-normal at the 0.01 alpha level. Limit is highest of 93 background values. 43.01% NDs. Annual per-constituent alpha = 0.002241. Individual comparison alpha = 0.0002244 (1 of 2). Comparing 5 points to limit.

Constituent: Boron Analysis Run 11/5/2022 3:54 PM View: PLs Interwell App III
Plant McIntosh Client: Southern Company Data: McIntosh LF 3 CCR

Within Limit

Prediction Limit
Interwell Non-parametric

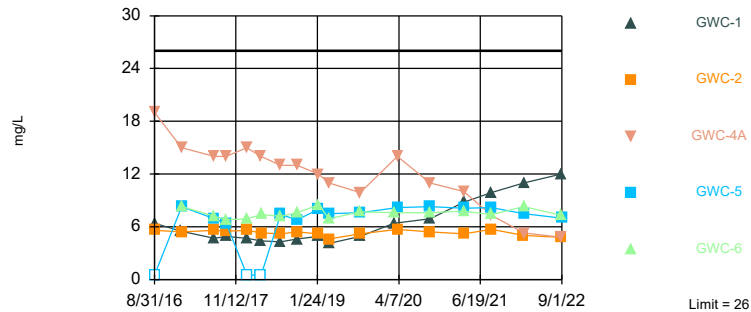


Non-parametric test used in lieu of parametric prediction limit because the Shapiro Francia normality test showed the data to be non-normal at the 0.01 alpha level. Limit is highest of 92 background values. Annual per-constituent alpha = 0.002286. Individual comparison alpha = 0.0002288 (1 of 2). Comparing 5 points to limit.

Constituent: Calcium Analysis Run 11/5/2022 3:54 PM View: PLs Interwell App III
Plant McIntosh Client: Southern Company Data: McIntosh LF 3 CCR

Within Limit

Prediction Limit
Interwell Non-parametric

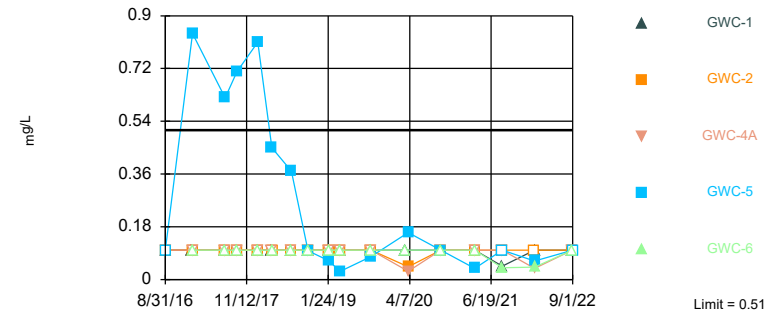


Non-parametric test used in lieu of parametric prediction limit because the Shapiro Francia normality test showed the data to be non-normal at the 0.01 alpha level. Limit is highest of 93 background values. Annual per-constituent alpha = 0.002241. Individual comparison alpha = 0.0002244 (1 of 2). Comparing 5 points to limit.

Constituent: Chloride Analysis Run 11/5/2022 3:54 PM View: PLs Interwell App III
Plant McIntosh Client: Southern Company Data: McIntosh LF 3 CCR

Within Limit

Prediction Limit
Interwell Non-parametric

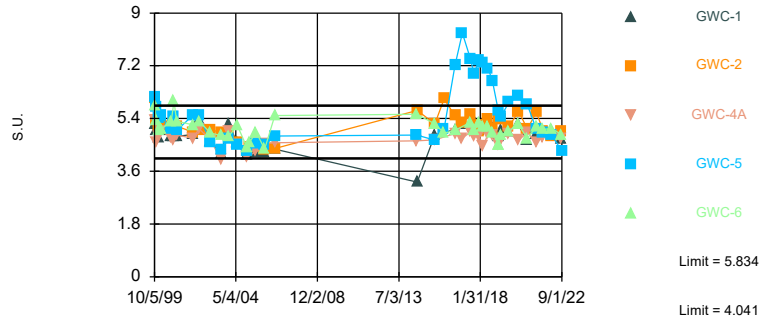


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 93 background values. 58.06% NDs. Annual per-constituent alpha = 0.002241. Individual comparison alpha = 0.0002244 (1 of 2). Comparing 5 points to limit.

Constituent: Fluoride Analysis Run 11/5/2022 3:54 PM View: PLs Interwell App III
Plant McIntosh Client: Southern Company Data: McIntosh LF 3 CCR

Within Limits

Prediction Limit
Interwell Parametric

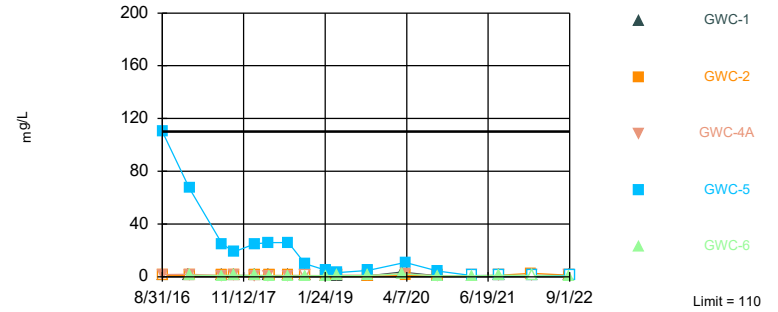


Background Data Summary: Mean=4.937, Std. Dev.=0.5015, n=173. Normality test: Chi Squared @alpha = 0.01, calculated = 11.91, critical = 14.07. Kappa = 1.788 (c=7, w=5, 1 of 2, event alpha = 0.05132). N exceeds UG tables; Kappa based on n=150. Report alpha = 0.007498. Individual comparison alpha = 0.000752. Comparing 5 points to limit.

Constituent: pH Analysis Run 11/5/2022 3:54 PM View: PLs Interwell App III
 Plant McIntosh Client: Southern Company Data: McIntosh LF 3 CCR

Within Limit

Prediction Limit
Interwell Non-parametric

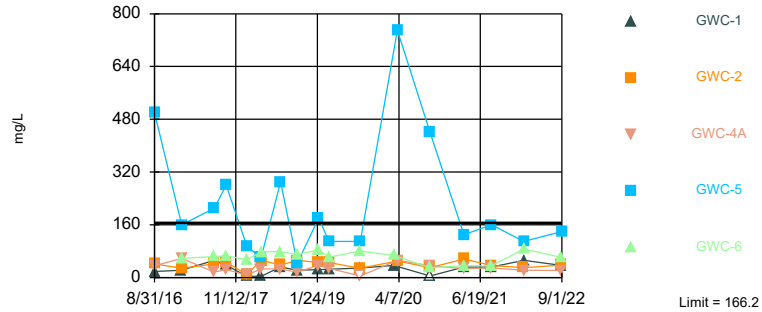


Non-parametric test used in lieu of parametric prediction limit because the Shapiro Francia normality test showed the data to be non-normal at the 0.01 alpha level. Limit is highest of 93 background values. 30.11% NDs. Annual per-constituent alpha = 0.002241. Individual comparison alpha = 0.0002244 (1 of 2). Comparing 5 points to limit.

Constituent: Sulfate Analysis Run 11/5/2022 3:54 PM View: PLs Interwell App III
 Plant McIntosh Client: Southern Company Data: McIntosh LF 3 CCR

Within Limit

Prediction Limit
Interwell Parametric



Background Data Summary (based on square root transformation): Mean=7.688, Std. Dev.=2.879, n=92, 2.174% NDs. Normality test: Shapiro Francia @alpha = 0.01, calculated = 0.9693, critical = 0.962. Kappa = 1.808 (c=7, w=5, 1 of 2, event alpha = 0.05132). Report alpha = 0.007498. Individual comparison alpha = 0.001504. Comparing 5 points to limit.

Constituent: Total Dissolved Solids Analysis Run 11/5/2022 3:54 PM View: PLs Interwell App III
 Plant McIntosh Client: Southern Company Data: McIntosh LF 3 CCR

Prediction Limit

Constituent: Boron (mg/L) Analysis Run 11/5/2022 3:56 PM View: PLs Interwell App III

Plant McIntosh Client: Southern Company Data: McIntosh LF 3 CCR

	GWA-4 (bg)	GWC-1	GWA-3A (bg)	GWC-4A	GWA-5 (bg)	GWC-2	GWC-6	GWC-5	GWA-1A (bg)
8/31/2016	<0.08	0.023 (J)	<0.08	<0.08	0.073	0.023 (J)			
9/1/2016							<0.08	<0.08	0.029 (J)
1/19/2017	0.027 (J)		<0.08		0.036 (J)				
1/23/2017		<0.08							
1/24/2017						<0.08		<0.08	
1/25/2017				0.023 (J)					
1/27/2017							<0.08		
2/28/2017									<0.08
7/17/2017									<0.08
7/18/2017	<0.08		<0.08						
7/19/2017		0.021 (J)			0.07	0.026 (J)			
7/20/2017				<0.08			<0.08	<0.08	
9/20/2017			<0.08						<0.08
9/21/2017	<0.08	<0.08		<0.08	0.07	0.025 (J)		<0.08	
9/22/2017							<0.08		
1/8/2018									<0.08
1/9/2018	<0.08	0.025 (J)	<0.08	<0.08	0.042 (J)	0.023 (J)			
1/10/2018							<0.08	<0.08	
3/27/2018	<0.08		<0.08		0.037 (J)				<0.08
3/28/2018		<0.08		<0.08				<0.08	
3/29/2018						0.035 (J)	<0.08		
7/10/2018	<0.08		<0.08	<0.08	0.042 (J)	0.044 (J)			<0.08
7/11/2018		<0.08					<0.08	<0.08	
10/8/2018	<0.08				0.044 (J)				<0.08
10/9/2018		<0.08	<0.08	<0.08		0.043 (J)	<0.08	<0.08	
1/30/2019	<0.08	<0.08	<0.08	<0.08	0.03 (J)				<0.08
1/31/2019						0.04 (J)	<0.08	<0.08	
3/27/2019					0.036 (J)				<0.08
3/28/2019	<0.08	0.021 (J)	0.024 (J)	<0.08		0.062	<0.08	<0.08	
9/11/2019									<0.08
9/12/2019	<0.08	<0.08	<0.08	<0.08	0.048 (J)	0.045 (J)	<0.08	<0.08	
3/10/2020	<0.08		0.059 (J)		0.066 (J)				<0.08
3/11/2020		0.04 (J)					<0.08		
3/31/2020				<0.08		0.046 (J)		<0.08	
4/2/2020			0.084						
9/21/2020	0.073 (J)		0.11						0.11
9/22/2020		0.098		0.053 (J)	0.097	0.083	0.048 (J)	0.045 (J)	
3/23/2021			0.088			0.07 (J)			<0.08
3/24/2021	<0.08	<0.08		<0.08	0.048 (J)		<0.08	<0.08	
8/17/2021	0.045 (J)		0.098		0.067 (J)				0.049 (J)
8/18/2021		0.07 (J)		0.043 (J)		0.095	0.082	<0.08	
2/7/2022									
2/8/2022	<0.08		0.077 (J)		<0.08	0.094			<0.08
2/9/2022		<0.08		<0.08			<0.08	<0.08	
8/30/2022	<0.08		0.1	<0.08	<0.08	0.085			<0.08
8/31/2022		<0.08					<0.08		
9/1/2022								<0.08	

Prediction Limit

Constituent: Boron (mg/L) Analysis Run 11/5/2022 3:56 PM View: PLs Interwell App III
Plant McIntosh Client: Southern Company Data: McIntosh LF 3 CCR

	GWA-7A (bg)	GWA-2B (bg)	GWA-1B (bg)
8/31/2016			
9/1/2016			
1/19/2017			
1/23/2017			
1/24/2017			
1/25/2017			
1/27/2017			
2/28/2017			
7/17/2017			
7/18/2017			
7/19/2017			
7/20/2017			
9/20/2017			
9/21/2017			
9/22/2017			
1/8/2018			
1/9/2018			
1/10/2018			
3/27/2018			
3/28/2018			
3/29/2018			
7/10/2018			
7/11/2018			
10/8/2018	1.3	0.76	
10/9/2018			
1/30/2019	1.5	0.77	
1/31/2019			
3/27/2019			
3/28/2019	1.4	0.83	
9/11/2019			
9/12/2019	1.6	0.65	
3/10/2020		0.64	
3/11/2020	1.9		
3/31/2020			
4/2/2020			
9/21/2020	0.61		
9/22/2020		0.73	
3/23/2021	1.5	0.57	0.1
3/24/2021			
8/17/2021	1.4	0.68	0.11
8/18/2021			
2/7/2022	0.6	0.54	
2/8/2022			0.084
2/9/2022			
8/30/2022	1.2	0.98	0.12
8/31/2022			
9/1/2022			

Prediction Limit

Constituent: Calcium (mg/L) Analysis Run 11/5/2022 3:56 PM View: PLs Interwell App III

Plant McIntosh Client: Southern Company Data: McIntosh LF 3 CCR

	GWA-4 (bg)	GWA-5 (bg)	GWA-3A (bg)	GWC-1	GWC-2	GWC-4A	GWC-5	GWC-6	GWA-1A (bg)
8/31/2016	0.88	3.7	1.5	0.22 (J)	5.5	0.42			
9/1/2016							21	1.9	26 (o)
1/19/2017	1.1	2	1.8						
1/23/2017				1.3 (o)					
1/24/2017					2.9		10		
1/25/2017						0.37			
1/27/2017								1.4	
2/28/2017									2.7
7/17/2017									1.7
7/18/2017	0.86		1.7						
7/19/2017		2.6		0.19 (J)	4.2				
7/20/2017						0.29	8.1	1.5	
9/20/2017			1.7						1.5
9/21/2017	0.9	2.7		0.3	2.9	0.3	8		
9/22/2017								1.3	
1/8/2018									1.7
1/9/2018	1	4.1	1.9	0.16 (J)	1.7	0.38			
1/10/2018							11	1	
3/27/2018	0.89	4.8	1.9						1.7
3/28/2018				0.14 (J)		0.44	9.5		
3/29/2018					2.2			1.5	
7/10/2018	0.99	3.7	1.9		3.9	2 (o)			1.7
7/11/2018				0.18 (J)			9.6	1.6	
10/8/2018	1.1	3.2							1.6
10/9/2018			2.2	0.13 (J)	1.7	0.34	8	1.5	
1/30/2019	1	1.7	2.4	0.24 (J)		0.34			1.9
1/31/2019					4.8		7.5	1.9	
3/27/2019		3.1							1.6
3/28/2019	0.98		2.4	0.15 (J)	4.9	0.3	7.2	1.5	
9/11/2019									1.6
9/12/2019	0.84	1.9	2.3	<0.5 (D)	2	0.3 (J)	9.1	1.7	
3/10/2020	1.1	2.9	2.8						2
3/11/2020				1.6				1.7	
3/31/2020					8.3	0.48 (J)	12		
4/2/2020			3						
9/21/2020	1.4		3.1						1.8
9/22/2020		2.9		0.21 (J)	2.1	0.51	8	1.9	
3/23/2021			3.6		9.2				1.8
3/24/2021	1.3	3.1		0.25 (J)		0.46 (J)	8.2	1.7	
8/17/2021	1.4	2.9	3.5						1.8
8/18/2021				0.36 (J)	1.7	0.37 (J)	7.4	1.6	
2/7/2022									
2/8/2022	1.3	2.8	3.3		1.3				1.7
2/9/2022				0.23 (J)		0.39 (J)	4.6	1.8	
8/30/2022	1.2	3.4	3.9		1.4	0.39 (J)			1.8
8/31/2022				0.31 (J)				1.5	
9/1/2022							5.2		

Prediction Limit

Constituent: Calcium (mg/L) Analysis Run 11/5/2022 3:56 PM View: PLs Interwell App III
Plant McIntosh Client: Southern Company Data: McIntosh LF 3 CCR

	GWA-2B (bg)	GWA-7A (bg)	GWA-1B (bg)
8/31/2016			
9/1/2016			
1/19/2017			
1/23/2017			
1/24/2017			
1/25/2017			
1/27/2017			
2/28/2017			
7/17/2017			
7/18/2017			
7/19/2017			
7/20/2017			
9/20/2017			
9/21/2017			
9/22/2017			
1/8/2018			
1/9/2018			
1/10/2018			
3/27/2018			
3/28/2018			
3/29/2018			
7/10/2018			
7/11/2018			
10/8/2018	17	17	
10/9/2018			
1/30/2019	16	15	
1/31/2019			
3/27/2019			
3/28/2019	16	18	
9/11/2019			
9/12/2019	15	19	
3/10/2020	14		
3/11/2020		20	
3/31/2020			
4/2/2020			
9/21/2020		13	
9/22/2020	16		
3/23/2021	15	19	4
3/24/2021			
8/17/2021	15	17	3.9
8/18/2021			
2/7/2022	12	11	
2/8/2022			2.7
2/9/2022			
8/30/2022	15	14	5.2
8/31/2022			
9/1/2022			

Prediction Limit

Constituent: Chloride (mg/L) Analysis Run 11/5/2022 3:56 PM View: PLs Interwell App III

Plant McIntosh Client: Southern Company Data: McIntosh LF 3 CCR

	GWA-4 (bg)	GWA-3A (bg)	GWC-4A	GWC-2	GWC-1	GWA-5 (bg)	GWC-5	GWA-1A (bg)	GWC-6
8/31/2016	3.7	6.8	19	5.6	6.4	7.1			
9/1/2016							<1	8	
1/19/2017	4.6	6.9				3.3			
1/23/2017					5.5				
1/24/2017				5.4			8.3		
1/25/2017			15						
1/27/2017									8.3
2/28/2017								8.5	
7/17/2017								7.8	
7/18/2017	4.2	7.4							
7/19/2017				5.6	4.7	5.8			
7/20/2017			14				6.9		7.2
9/20/2017		7.6						8	
9/21/2017	4.4		14	5.5	4.9	6.2	6.4		
9/22/2017									6.8
1/8/2018								7.9	
1/9/2018	4.4	8.6	15	5.6	4.7	9.9			
1/10/2018							<1		6.9
3/27/2018	4.9	9.4				13		8	
3/28/2018			14		4.4		<1		
3/29/2018				5.3					7.4
7/10/2018	5.5	11	13	5.2		17		7.8	
7/11/2018					4.3		7.4		7.2
10/8/2018	6.6					16		8.5	
10/9/2018		14	13	5.4	4.6		6.8		7.6
1/30/2019	6.9	15	12		4.9	6.5		8.2	
1/31/2019				5.2			8		8.5
3/27/2019						9.1		8.1	
3/28/2019	5.7	15	11	4.6	4.1		7.5		6.9
9/11/2019								7.1	
9/12/2019	6.1	16	9.9	5.2	4.9	9.1	7.6		7.7
3/10/2020	5	19				3.7		8.1	
3/11/2020					6.4				7.6
3/31/2020			14	5.7			8.2		
4/2/2020		20							
9/21/2020	5.4	19						8.1	
9/22/2020			11	5.4	6.9	6.3	8.3		7.6
3/23/2021		22		5.2				8.6	
3/24/2021	6.2		10		8.8	7.4	8.1		7.8
8/17/2021	6.1	23				11		9.1	
8/18/2021			7.3	5.7	9.9		8.2		7.4
2/7/2022									
2/8/2022	6.4	23		5		12		8.6	
2/9/2022			5.3		11		7.5		8.3
8/30/2022	4.7	26	4.8	4.8		15		8.5	
8/31/2022					12				7.3
9/1/2022							7		

Prediction Limit

Constituent: Chloride (mg/L) Analysis Run 11/5/2022 3:56 PM View: PLs Interwell App III
Plant McIntosh Client: Southern Company Data: McIntosh LF 3 CCR

	GWA-2B (bg)	GWA-7A (bg)	GWA-1B (bg)
8/31/2016			
9/1/2016			
1/19/2017			
1/23/2017			
1/24/2017			
1/25/2017			
1/27/2017			
2/28/2017			
7/17/2017			
7/18/2017			
7/19/2017			
7/20/2017			
9/20/2017			
9/21/2017			
9/22/2017			
1/8/2018			
1/9/2018			
1/10/2018			
3/27/2018			
3/28/2018			
3/29/2018			
7/10/2018			
7/11/2018			
10/8/2018	7.3	6.8	
10/9/2018			
1/30/2019	7.3	7.1	
1/31/2019			
3/27/2019			
3/28/2019	6.1	6.1	
9/11/2019			
9/12/2019	7.6	6.8	
3/10/2020	8		
3/11/2020		6.9	
3/31/2020			
4/2/2020			
9/21/2020		6.5	
9/22/2020	8		
3/23/2021	7.8	7.6	9.9
3/24/2021			
8/17/2021	7.7	8.3	10
8/18/2021			
2/7/2022	6.7	7.6	
2/8/2022			9.5
2/9/2022			
8/30/2022	5.9	7.5	7.7
8/31/2022			
9/1/2022			

Prediction Limit

Constituent: Fluoride (mg/L) Analysis Run 11/5/2022 3:56 PM View: PLs Interwell App III

Plant McIntosh Client: Southern Company Data: McIntosh LF 3 CCR

	GWA-4 (bg)	GWA-3A (bg)	GWC-4A	GWC-2	GWC-1	GWA-5 (bg)	GWC-5	GWA-1A (bg)	GWC-6
8/31/2016	<0.1	<0.1	<0.1	<0.1	<0.1	0.13 (J)			
9/1/2016							<0.1	<0.1	
1/19/2017	0.089 (J)	<0.1				<0.1			
1/23/2017					<0.1				
1/24/2017				<0.1			0.84		
1/25/2017			<0.1						
1/27/2017									<0.1
2/28/2017								0.098 (J)	
7/17/2017								<0.1	
7/18/2017	<0.1	<0.1							
7/19/2017				<0.1	<0.1	<0.1			
7/20/2017			<0.1				0.62		<0.1
9/20/2017		<0.1						<0.1	
9/21/2017	<0.1		<0.1	<0.1	<0.1	0.13 (J)	0.71		
9/22/2017									<0.1
1/8/2018								<0.1	
1/9/2018	<0.1	<0.1	<0.1	<0.1	<0.1	0.13 (J)			
1/10/2018							0.81		<0.1
3/27/2018	<0.1	<0.1				0.21		<0.1	
3/28/2018			<0.1		<0.1		0.45		
3/29/2018				<0.1					<0.1
7/10/2018	<0.1	<0.1	<0.1	<0.1		0.17 (J)		<0.1	
7/11/2018					<0.1		0.37		<0.1
10/8/2018	<0.1					0.11 (J)		<0.1	
10/9/2018		<0.1	<0.1	<0.1	<0.1		0.098 (J)		<0.1
1/30/2019	0.029 (J)	<0.1	<0.1		<0.1	0.089 (J)		<0.1	
1/31/2019				<0.1			0.063 (J)		<0.1
3/27/2019						0.1 (J)		<0.1	
3/28/2019	<0.1	<0.1	<0.1	<0.1	<0.1		0.027 (J)		<0.1
9/11/2019								<0.1	
9/12/2019	0.035 (J)	<0.1	<0.1	<0.1	<0.1	0.052 (J)	0.078 (J)		<0.1
3/10/2020	0.066 (J)	0.026 (J)				0.051 (J)		<0.1	
3/11/2020					<0.1				<0.1
3/31/2020			0.028 (J)	0.043 (J)			0.16		
4/2/2020		0.051 (J)							
9/21/2020	0.06 (J)	<0.1						<0.1	
9/22/2020			<0.1	<0.1	<0.1	0.049 (J)	0.1		<0.1
3/23/2021		<0.1		<0.1				<0.1	
3/24/2021	0.12		<0.1		<0.1	0.08 (J)	0.038 (J)		<0.1
8/17/2021	0.061 (J)	0.064 (J)				0.097 (J)		0.038 (J)	
8/18/2021			<0.1	<0.1	0.046 (J)		<0.1		0.04 (J)
2/7/2022									
2/8/2022	0.061 (J)	0.033 (J)		<0.1		0.12		<0.1	
2/9/2022			0.038 (J)		<0.1		0.063 (J)		0.042 (J)
8/30/2022	0.047 (J)	<0.1	<0.1	<0.1		0.11		<0.1	
8/31/2022					<0.1				<0.1
9/1/2022							<0.1		

Prediction Limit

Constituent: Fluoride (mg/L) Analysis Run 11/5/2022 3:56 PM View: PLs Interwell App III
Plant McIntosh Client: Southern Company Data: McIntosh LF 3 CCR

	GWA-2B (bg)	GWA-7A (bg)	GWA-1B (bg)
8/31/2016			
9/1/2016			
1/19/2017			
1/23/2017			
1/24/2017			
1/25/2017			
1/27/2017			
2/28/2017			
7/17/2017			
7/18/2017			
7/19/2017			
7/20/2017			
9/20/2017			
9/21/2017			
9/22/2017			
1/8/2018			
1/9/2018			
1/10/2018			
3/27/2018			
3/28/2018			
3/29/2018			
7/10/2018			
7/11/2018			
10/8/2018	<0.1	<0.1	
10/9/2018			
1/30/2019	<0.1	<0.1	
1/31/2019			
3/27/2019			
3/28/2019	<0.1	<0.1	
9/11/2019			
9/12/2019	0.036 (J)	<0.1	
3/10/2020	<0.1		
3/11/2020		<0.1	
3/31/2020			
4/2/2020			
9/21/2020		<0.1	
9/22/2020	0.039 (J)		
3/23/2021	<0.1	<0.1	0.079 (J)
3/24/2021			
8/17/2021	0.083 (J)	0.033 (J)	0.09 (J)
8/18/2021			
2/7/2022	0.027 (J)	<0.1	
2/8/2022			0.077 (J)
2/9/2022			
8/30/2022	<0.1	<0.1	0.51
8/31/2022			
9/1/2022			

Prediction Limit

Constituent: pH (S.U.) Analysis Run 11/5/2022 3:56 PM View: PLs Interwell App III

Plant McIntosh Client: Southern Company Data: McIntosh LF 3 CCR

	GWA-1A (bg)	GWA-3A (bg)	GWA-5 (bg)	GWC-1	GWC-2	GWC-4A	GWC-5	GWC-6	GWA-4 (bg)
10/5/1999	6.63	6.42	6.3	5.23	6.08	5.33	6.13	5.84	6.51
11/12/1999	5.51	5.03	4.72	5.02	5.35	4.6	5.81	5.34	5.46
12/29/1999	5.23	4.92	4.8	4.75	5.19	4.8	5.43	5.01	5.13
2/17/2000	5.29	5.13	4.78	4.99	5.18	4.98	5.49	5.04	5.22
9/13/2000	5.41	4.85	4.58	4.81	5.13	4.75	5.05	5.29	4.86
11/10/2000	5.47	5.05	4.5	4.79	5.2	4.65	5.48	5.99	5.29
1/4/2001	5.44	5.08	4.61	4.79	5.14	4.83	4.99	5.31	5.53
12/11/2001	4.86	4.81	4.87	4.86	4.93	4.73	5.52	5.18	5.37
4/4/2002	5.1	4.92	4.96	5.39	5	5.05	5.5	5.31	5.32
12/6/2002	4.917 (D)	5.07 (D)	4.4 (D)	4.63	5.02	4.65 (D)	4.58 (D)	4.9 (D)	5.3 (D)
6/28/2003	4.91	4.69	3.77	4.19	4.92	4	4.32	4.82	4.73
12/13/2003	4.87	4.81	4.25	5.2	4.82	4.97	4.73	4.8	4.53
5/28/2004	4.98	3.93	3.9	4.57	4.6	4.51	4.5	5.18	4.22
12/10/2004	4.35	4.25	3.71	4.16	4.29	4.09	4.28	4.43	4.26
2/5/2005					4.43			4.6	
6/24/2005	4.82	4.5	3.94	4.23	4.56	4.27	4.56	4.93	4.47
12/13/2005	4.66	4.52	3.94	4.24	4.34	4.54	4.49	4.36	4.47
7/12/2006	5.49	3.59	5.56	4.36	4.38	4.57	4.8	5.5	3.68
7/11/2014	5.55					4.64	4.83	5.54	
7/12/2014		5.44	3.88	3.23	5.68				5.33
7/15/2015	5.13	4.98	4.19	4.85	5.22	4.67	4.66	5.22	4.94
1/16/2016	5.06	4.87	4.35				5.05	4.9	4.85
1/17/2016					6.07				
8/31/2016		4.92	4.53	5.02	5.49	4.89			4.79
9/1/2016							7.21	5	
1/19/2017		4.86	4.79						4.72
1/23/2017				5.22					
1/24/2017					5.25		8.32		
1/25/2017						4.73			
2/28/2017	5.33								
7/17/2017	5.09								
7/18/2017		5.02							4.96
7/19/2017			4.83	5.23	5.54			5.27	
7/20/2017						4.96	7.41		
9/20/2017	5.29	4.72							
9/21/2017			4.57	5.34	5.19	4.78	6.94	4.99	4.7
1/8/2018	5.26	4.92							
1/9/2018		4.83	4.4	5	4.97	4.79	7.39	5.25	4.91
3/27/2018	5.27	4.91	4.11						4.92
3/28/2018				5.08		4.44	7.31	5.14	
3/29/2018					5.15				
7/10/2018	5.17	4.87	4.62		5.37	4.88		5.13	4.94
7/11/2018				5.07			7.09		
10/8/2018	5.18	4.84	4.51						4.76
10/9/2018				5.1	5.04	4.85	6.68	4.93	
1/29/2019						4.7			
1/30/2019	5.17	4.88	4.72	4.81		4.52		4.52	4.94
1/31/2019					5.38		5.69	4.52	
3/27/2019	5.09		4.56						
3/28/2019		4.8		4.99	5.38	4.68	5.46	4.85	4.99
9/11/2019	5.1								
9/12/2019		4.99	4.54	4.95	5.14	4.89	5.96	4.96	4.92

Prediction Limit

Constituent: pH (S.U.) Analysis Run 11/5/2022 3:56 PM View: PLs Interwell App III
Plant McIntosh Client: Southern Company Data: McIntosh LF 3 CCR

	GWA-1A (bg)	GWA-3A (bg)	GWA-5 (bg)	GWC-1	GWC-2	GWC-4A	GWC-5	GWC-6	GWA-4 (bg)
3/10/2020	5.48	4.79	4.81						4.59
3/11/2020				5.21				5.23	
3/31/2020					5.64	4.66	6.17		
4/2/2020		4.75							
9/21/2020	4.95	4.69							4.6
9/22/2020			4.99	4.66	5.04	4.92	5.87	4.73	
3/23/2021	5.17	4.6			5.61				
3/24/2021			4.37	4.86		4.59	5.04	5.11	4.42
8/17/2021	5.24	4.76	4.62						4.78
8/18/2021				4.94	4.98	4.76	4.9	5.03	
2/7/2022									
2/8/2022	5.17	4.69	4.67		4.79				4.93
2/9/2022				5.01		4.82	4.82	5.05	
8/30/2022	5.01	4.71	4.51		4.96	4.71			4.72
8/31/2022				4.69				4.85	
9/1/2022							4.29		

Prediction Limit

Constituent: pH (S.U.) Analysis Run 11/5/2022 3:56 PM View: PLs Interwell App III
Plant McIntosh Client: Southern Company Data: McIntosh LF 3 CCR

	GWA-2B (bg)	GWA-7A (bg)	GWA-1B (bg)
10/5/1999			
11/12/1999			
12/29/1999			
2/17/2000			
9/13/2000			
11/10/2000			
1/4/2001			
12/11/2001			
4/4/2002			
12/6/2002			
6/28/2003			
12/13/2003			
5/28/2004			
12/10/2004			
2/5/2005			
6/24/2005			
12/13/2005			
7/12/2006			
7/11/2014			
7/12/2014			
7/15/2015			
1/16/2016			
1/17/2016			
8/31/2016			
9/1/2016			
1/19/2017			
1/23/2017			
1/24/2017			
1/25/2017			
2/28/2017			
7/17/2017			
7/18/2017			
7/19/2017			
7/20/2017			
9/20/2017			
9/21/2017			
1/8/2018			
1/9/2018			
3/27/2018			
3/28/2018			
3/29/2018			
7/10/2018			
7/11/2018			
10/8/2018	5.29	5.79	
10/9/2018			
1/29/2019			
1/30/2019	5.08	5.15	
1/31/2019			
3/27/2019			
3/28/2019	4.93	5.62	
9/11/2019			
9/12/2019	5.57	5.1	

Prediction Limit

Constituent: pH (S.U.) Analysis Run 11/5/2022 3:56 PM View: PLs Interwell App III
Plant McIntosh Client: Southern Company Data: McIntosh LF 3 CCR

	GWA-2B (bg)	GWA-7A (bg)	GWA-1B (bg)
3/10/2020	5.56		
3/11/2020		5.05	
3/31/2020			
4/2/2020			
9/21/2020		5.35	
9/22/2020	5.83		
3/23/2021	5.61	5.01	5.63
3/24/2021			
8/17/2021	5.82	5.51	5.83
8/18/2021			
2/7/2022	5.7	5.29	
2/8/2022			5.43
2/9/2022			
8/30/2022	4.9	5	5.86
8/31/2022			
9/1/2022			

Prediction Limit

Constituent: Sulfate (mg/L) Analysis Run 11/5/2022 3:56 PM View: PLs Interwell App III

Plant McIntosh Client: Southern Company Data: McIntosh LF 3 CCR

	GWA-4 (bg)	GWA-3A (bg)	GWC-4A	GWC-2	GWC-1	GWA-5 (bg)	GWC-5	GWA-1A (bg)	GWC-6
8/31/2016	7	<1	1.7	<1	<1	21			
9/1/2016							110	<1	
1/19/2017	6.3	<1				11			
1/23/2017					<1				
1/24/2017				<1			67		
1/25/2017			1.8						
1/27/2017									1.2
2/28/2017								2.7	
7/17/2017								<1	
7/18/2017	4.7	<1							
7/19/2017				<1	<1	12			
7/20/2017			0.83 (J)				25		0.84 (J)
9/20/2017		<1						<1	
9/21/2017	4.5		1.1	<1	<1	15	19		
9/22/2017									1.1
1/8/2018								<1	
1/9/2018	3	<1	0.79 (J)	<1	<1	25			
1/10/2018							25		0.95 (J)
3/27/2018	3.8	<1				31		<1	
3/28/2018			0.79 (J)		<1		26		
3/29/2018				<1					0.78 (J)
7/10/2018	3.4	<1	0.76 (J)	<1		19		<1	
7/11/2018					<1		26		0.78 (J)
10/8/2018	3.4					17		<1	
10/9/2018		<1	<1	<1	<1		10		0.79 (J)
1/30/2019	3.5	0.41 (J)	0.9 (J)		0.58 (J)	15		1.2	
1/31/2019				0.57 (J)			4.8		0.86 (J)
3/27/2019						20		<1	
3/28/2019	3	0.44 (J)	1.1	<1	0.67 (J)		3		0.96 (J)
9/11/2019								<1	
9/12/2019	3.7	0.69 (J)	1.1	0.43 (J)	0.78 (J)	10	4.9		1
3/10/2020	7.2	3				15		1.5	
3/11/2020					3.5				2.2
3/31/2020			2.5	1			11		
4/2/2020		<1							
9/21/2020	5	<1						<1	
9/22/2020			0.76 (J)	<1	0.63 (J)	12	4.3		0.59 (J)
3/23/2021		<1		0.8 (J)				<1	
3/24/2021	7		<1		0.77 (J)	16	<1		0.76 (J)
8/17/2021	5	<1				11		<1	
8/18/2021			<1	1.2	<1		<1		1.2
2/7/2022									
2/8/2022	5.9	<1		2.7		13		<1	
2/9/2022			<1		<1		<1		<1
8/30/2022	3.5	<1	<1	1.1		13		<1	
8/31/2022					<1				0.41 (J)
9/1/2022							<1		

Prediction Limit

Constituent: Sulfate (mg/L) Analysis Run 11/5/2022 3:56 PM View: PLs Interwell App III
Plant McIntosh Client: Southern Company Data: McIntosh LF 3 CCR

	GWA-2B (bg)	GWA-7A (bg)	GWA-1B (bg)
8/31/2016			
9/1/2016			
1/19/2017			
1/23/2017			
1/24/2017			
1/25/2017			
1/27/2017			
2/28/2017			
7/17/2017			
7/18/2017			
7/19/2017			
7/20/2017			
9/20/2017			
9/21/2017			
9/22/2017			
1/8/2018			
1/9/2018			
1/10/2018			
3/27/2018			
3/28/2018			
3/29/2018			
7/10/2018			
7/11/2018			
10/8/2018	73	75	
10/9/2018			
1/30/2019	74	85	
1/31/2019			
3/27/2019			
3/28/2019	71	85	
9/11/2019			
9/12/2019	59	81	
3/10/2020	57		
3/11/2020		110	
3/31/2020			
4/2/2020			
9/21/2020		49	
9/22/2020	52		
3/23/2021	49	88	6.8
3/24/2021			
8/17/2021	54	84	5.2
8/18/2021			
2/7/2022	42	54	
2/8/2022			2.8
2/9/2022			
8/30/2022	74	73	1.6
8/31/2022			
9/1/2022			

Prediction Limit

Constituent: Total Dissolved Solids (mg/L) Analysis Run 11/5/2022 3:56 PM View: PLs Interwell App III

Plant McIntosh Client: Southern Company Data: McIntosh LF 3 CCR

	GWC-1	GWA-3A (bg)	GWA-5 (bg)	GWC-4A	GWC-2	GWA-4 (bg)	GWC-5	GWC-6	GWA-1A (bg)
8/31/2016	18 (D)	42 (D)	66 (D)	36 (D)	42 (D)	14 (D)			
9/1/2016							500 (D)		2200 (o)
1/19/2017		52 (D)	48 (D)			34 (D)			
1/23/2017	22 (D)								
1/24/2017					28 (D)		160 (D)		
1/25/2017				58 (D)					
1/27/2017								58 (D)	
2/28/2017									74 (D)
7/17/2017									50
7/18/2017		32				26			
7/19/2017	52		48		42				
7/20/2017				16			210	64	
9/20/2017		16							26
9/21/2017	38		76	24	46	24	280		
9/22/2017								66	
1/8/2018									16
1/9/2018	4 (J)	4 (J)	18	8	10	16			
1/10/2018							94	54	
3/27/2018		30	48			<10			40
3/28/2018	4 (J)			26			60		
3/29/2018					52			78	
7/10/2018		30	76	26	38	14			90
7/11/2018	32						290	78	
10/8/2018			8			36			70
10/9/2018	22	56		16	52		44	70	
1/30/2019	24	41	67	37		40			82
1/31/2019					45		180	84	
3/27/2019			70						66
3/28/2019	25	36		28	45	24	110	62	
9/11/2019									53
9/12/2019	29	<10	20	<10	28	10	110	80	
3/10/2020		49	67			39			67
3/11/2020	37							67	
3/31/2020				52	50		750		
4/2/2020		61							
9/21/2020		61				31			31
9/22/2020	<10		53	36	30		440	30	
3/23/2021		76			56				47
3/24/2021	32		60	27		36	130	36	
8/17/2021		83	50			33			36
8/18/2021	32			29	37		160	36	
2/7/2022									
2/8/2022		62	57		30	29			45
2/9/2022	52			22			110	86	
8/30/2022		87	64	21	38	40			55
8/31/2022	37							61	
9/1/2022							140		

Prediction Limit

Constituent: Total Dissolved Solids (mg/L) Analysis Run 11/5/2022 3:56 PM View: PLs Interwell App III
Plant McIntosh Client: Southern Company Data: McIntosh LF 3 CCR

	GWA-2B (bg)	GWA-7A (bg)	GWA-1B (bg)
8/31/2016			
9/1/2016			
1/19/2017			
1/23/2017			
1/24/2017			
1/25/2017			
1/27/2017			
2/28/2017			
7/17/2017			
7/18/2017			
7/19/2017			
7/20/2017			
9/20/2017			
9/21/2017			
9/22/2017			
1/8/2018			
1/9/2018			
1/10/2018			
3/27/2018			
3/28/2018			
3/29/2018			
7/10/2018			
7/11/2018			
10/8/2018	170	180	
10/9/2018			
1/30/2019	140	180	
1/31/2019			
3/27/2019			
3/28/2019	150	170	
9/11/2019			
9/12/2019	89	140	
3/10/2020	130		
3/11/2020		180	
3/31/2020			
4/2/2020			
9/21/2020		130	
9/22/2020	110		
3/23/2021	130	180	63
3/24/2021			
8/17/2021	130	160	43
8/18/2021			
2/7/2022	120	150	
2/8/2022			39
2/9/2022			
8/30/2022	150	160	79
8/31/2022			
9/1/2022			

FIGURE E.

Interwell Prediction Limit Appendix I - Significant Results

Plant McIntosh Client: Southern Company Data: McIntosh LF 3 CCR Printed 11/5/2022, 4:02 PM

<u>Constituent</u>	<u>Well</u>	<u>Upper Lim.</u>	<u>Lower Lim.</u>	<u>Date</u>	<u>Observ.</u>	<u>Sig. Bg.N</u>	<u>Bg Mean</u>	<u>Std. Dev.</u>	<u>%NDs ND Adj.</u>	<u>Transform</u>	<u>Alpha</u>	<u>Method</u>
Barium (mg/L)	GWC-5	0.33	n/a	9/1/2022	0.36	Yes 277	n/a	n/a	0 n/a	n/a	0.0000492	NP Inter (normality) 1 of 2

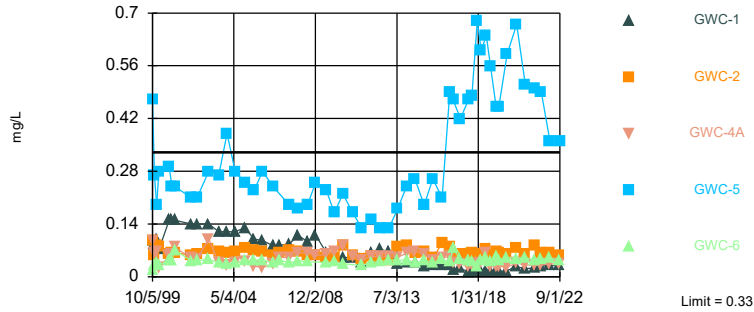
Interwell Prediction Limit Appendix I - All Results

Plant McIntosh Client: Southern Company Data: McIntosh LF 3 CCR Printed 11/5/2022, 4:02 PM

Constituent	Well	Upper Lim.	Lower Lim.	Date	Observ.	Sig. Bg N	Bg Mean	Std. Dev.	%NDs	ND Adj.	Transform	Alpha	Method
Barium (mg/L)	GWC-1	0.33	n/a	8/31/2022	0.03	No 277	n/a	n/a	0	n/a	n/a	0.0000492	NP Inter (normality) 1 of 2
Barium (mg/L)	GWC-2	0.33	n/a	8/30/2022	0.058	No 277	n/a	n/a	0	n/a	n/a	0.0000492	NP Inter (normality) 1 of 2
Barium (mg/L)	GWC-4A	0.33	n/a	8/30/2022	0.035	No 277	n/a	n/a	0	n/a	n/a	0.0000492	NP Inter (normality) 1 of 2
Barium (mg/L)	GWC-5	0.33	n/a	9/1/2022	0.36	Yes 277	n/a	n/a	0	n/a	n/a	0.0000492	NP Inter (normality) 1 of 2
Barium (mg/L)	GWC-6	0.33	n/a	8/31/2022	0.043	No 277	n/a	n/a	0	n/a	n/a	0.0000492	NP Inter (normality) 1 of 2
Beryllium (mg/L)	GWC-1	0.0041	n/a	8/31/2022	0.0025ND	No 277	n/a	n/a	73.29	n/a	n/a	0.0000492	NP Inter (NDs) 1 of 2
Beryllium (mg/L)	GWC-2	0.0041	n/a	8/30/2022	0.00038J	No 277	n/a	n/a	73.29	n/a	n/a	0.0000492	NP Inter (NDs) 1 of 2
Beryllium (mg/L)	GWC-4A	0.0041	n/a	8/30/2022	0.0025ND	No 277	n/a	n/a	73.29	n/a	n/a	0.0000492	NP Inter (NDs) 1 of 2
Beryllium (mg/L)	GWC-5	0.0041	n/a	9/1/2022	0.0018J	No 277	n/a	n/a	73.29	n/a	n/a	0.0000492	NP Inter (NDs) 1 of 2
Beryllium (mg/L)	GWC-6	0.0041	n/a	8/31/2022	0.00049J	No 277	n/a	n/a	73.29	n/a	n/a	0.0000492	NP Inter (NDs) 1 of 2
Chromium (mg/L)	GWC-1	0.097	n/a	8/31/2022	0.002ND	No 276	n/a	n/a	40.22	n/a	n/a	0.0000492	NP Inter (normality) 1 of 2
Chromium (mg/L)	GWC-2	0.097	n/a	8/30/2022	0.005	No 276	n/a	n/a	40.22	n/a	n/a	0.0000492	NP Inter (normality) 1 of 2
Chromium (mg/L)	GWC-4A	0.097	n/a	8/30/2022	0.002ND	No 276	n/a	n/a	40.22	n/a	n/a	0.0000492	NP Inter (normality) 1 of 2
Chromium (mg/L)	GWC-5	0.097	n/a	9/1/2022	0.014	No 276	n/a	n/a	40.22	n/a	n/a	0.0000492	NP Inter (normality) 1 of 2
Chromium (mg/L)	GWC-6	0.097	n/a	8/31/2022	0.002ND	No 276	n/a	n/a	40.22	n/a	n/a	0.0000492	NP Inter (normality) 1 of 2
Cobalt (mg/L)	GWC-1	0.017	n/a	8/31/2022	0.00036J	No 276	n/a	n/a	57.61	n/a	n/a	0.0000492	NP Inter (NDs) 1 of 2
Cobalt (mg/L)	GWC-2	0.017	n/a	8/30/2022	0.0012J	No 276	n/a	n/a	57.61	n/a	n/a	0.0000492	NP Inter (NDs) 1 of 2
Cobalt (mg/L)	GWC-4A	0.017	n/a	8/30/2022	0.00048J	No 276	n/a	n/a	57.61	n/a	n/a	0.0000492	NP Inter (NDs) 1 of 2
Cobalt (mg/L)	GWC-5	0.017	n/a	9/1/2022	0.012	No 276	n/a	n/a	57.61	n/a	n/a	0.0000492	NP Inter (NDs) 1 of 2
Cobalt (mg/L)	GWC-6	0.017	n/a	8/31/2022	0.00058J	No 276	n/a	n/a	57.61	n/a	n/a	0.0000492	NP Inter (NDs) 1 of 2
Copper (mg/L)	GWC-1	0.0055	n/a	8/31/2022	0.002ND	No 251	n/a	n/a	84.86	n/a	n/a	0.0000492	NP Inter (NDs) 1 of 2
Copper (mg/L)	GWC-2	0.0055	n/a	8/30/2022	0.002ND	No 251	n/a	n/a	84.86	n/a	n/a	0.0000492	NP Inter (NDs) 1 of 2
Copper (mg/L)	GWC-5	0.0055	n/a	9/1/2022	0.0012J	No 251	n/a	n/a	84.86	n/a	n/a	0.0000492	NP Inter (NDs) 1 of 2
Copper (mg/L)	GWC-6	0.0055	n/a	8/31/2022	0.002ND	No 251	n/a	n/a	84.86	n/a	n/a	0.0000492	NP Inter (NDs) 1 of 2
Lead (mg/L)	GWC-1	0.044	n/a	8/31/2022	0.001ND	No 277	n/a	n/a	78.7	n/a	n/a	0.0000492	NP Inter (NDs) 1 of 2
Lead (mg/L)	GWC-2	0.044	n/a	8/30/2022	0.001ND	No 277	n/a	n/a	78.7	n/a	n/a	0.0000492	NP Inter (NDs) 1 of 2
Lead (mg/L)	GWC-5	0.044	n/a	9/1/2022	0.00031J	No 277	n/a	n/a	78.7	n/a	n/a	0.0000492	NP Inter (NDs) 1 of 2
Lead (mg/L)	GWC-6	0.044	n/a	8/31/2022	0.001ND	No 277	n/a	n/a	78.7	n/a	n/a	0.0000492	NP Inter (NDs) 1 of 2
Vanadium (mg/L)	GWC-1	0.11	n/a	8/31/2022	0.0011	No 255	n/a	n/a	71.37	n/a	n/a	0.0000492	NP Inter (NDs) 1 of 2
Vanadium (mg/L)	GWC-2	0.11	n/a	8/30/2022	0.001ND	No 255	n/a	n/a	71.37	n/a	n/a	0.0000492	NP Inter (NDs) 1 of 2
Vanadium (mg/L)	GWC-4A	0.11	n/a	8/30/2022	0.001ND	No 255	n/a	n/a	71.37	n/a	n/a	0.0000492	NP Inter (NDs) 1 of 2
Vanadium (mg/L)	GWC-5	0.11	n/a	9/1/2022	0.001ND	No 255	n/a	n/a	71.37	n/a	n/a	0.0000492	NP Inter (NDs) 1 of 2
Vanadium (mg/L)	GWC-6	0.11	n/a	8/31/2022	0.0013	No 255	n/a	n/a	71.37	n/a	n/a	0.0000492	NP Inter (NDs) 1 of 2
Zinc (mg/L)	GWC-1	0.11	n/a	8/31/2022	0.005ND	No 256	n/a	n/a	29.3	n/a	n/a	0.0000492	NP Inter (normality) 1 of 2
Zinc (mg/L)	GWC-2	0.11	n/a	8/30/2022	0.012	No 256	n/a	n/a	29.3	n/a	n/a	0.0000492	NP Inter (normality) 1 of 2
Zinc (mg/L)	GWC-4A	0.11	n/a	8/30/2022	0.0046J	No 256	n/a	n/a	29.3	n/a	n/a	0.0000492	NP Inter (normality) 1 of 2
Zinc (mg/L)	GWC-5	0.11	n/a	9/1/2022	0.035	No 256	n/a	n/a	29.3	n/a	n/a	0.0000492	NP Inter (normality) 1 of 2
Zinc (mg/L)	GWC-6	0.11	n/a	8/31/2022	0.0073	No 256	n/a	n/a	29.3	n/a	n/a	0.0000492	NP Inter (normality) 1 of 2

Exceeds Limit: GWC-5

Prediction Limit
Interwell Non-parametric

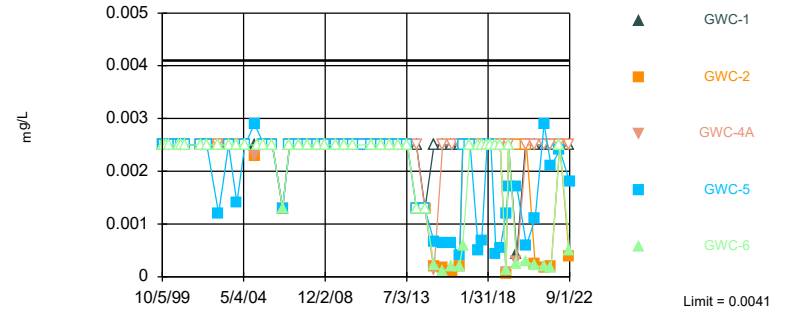


Non-parametric test used in lieu of parametric prediction limit because the Chi Squared normality test showed the data to be non-normal at the 0.01 alpha level. Limit is highest of 277 background values. Annual per-constituent alpha = 0.0004919. Individual comparison alpha = 0.0000492 (1 of 2). Comparing 5 points to limit.

Constituent: Barium Analysis Run 11/5/2022 3:59 PM View: PLs Interwell State
Plant McIntosh Client: Southern Company Data: McIntosh LF 3 CCR

Within Limit

Prediction Limit
Interwell Non-parametric



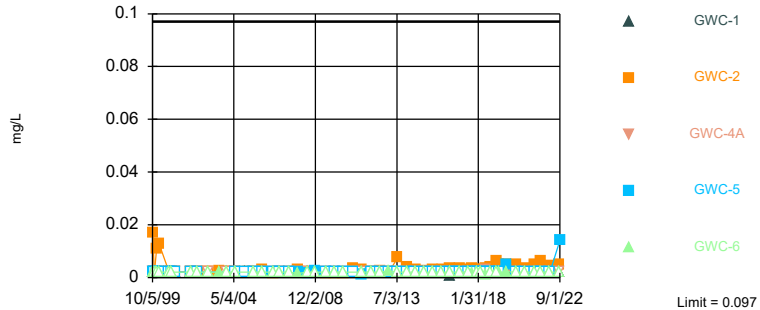
Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 277 background values. 73.29% NDs. Annual per-constituent alpha = 0.0004919. Individual comparison alpha = 0.0000492 (1 of 2). Comparing 5 points to limit.

Constituent: Beryllium Analysis Run 11/5/2022 3:59 PM View: PLs Interwell State
Plant McIntosh Client: Southern Company Data: McIntosh LF 3 CCR

Hollow symbols indicate censored values.

Within Limit

Prediction Limit
Interwell Non-parametric



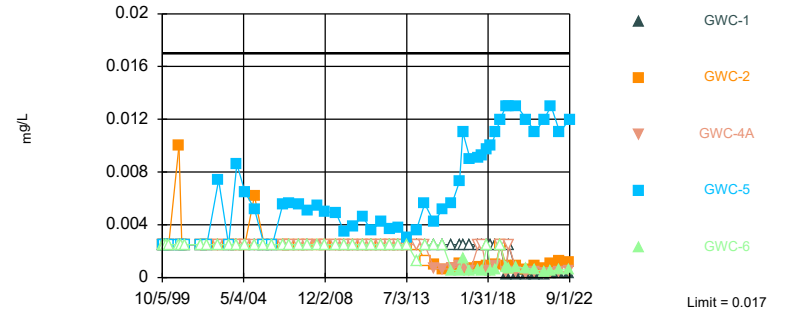
Non-parametric test used in lieu of parametric prediction limit because the Chi Squared normality test showed the data to be non-normal at the 0.01 alpha level. Limit is highest of 276 background values. 40.22% NDs. Annual per-constituent alpha = 0.0004919. Individual comparison alpha = 0.0000492 (1 of 2). Comparing 5 points to limit.

Constituent: Chromium Analysis Run 11/5/2022 3:59 PM View: PLs Interwell State
Plant McIntosh Client: Southern Company Data: McIntosh LF 3 CCR

Hollow symbols indicate censored values.

Within Limit

Prediction Limit
Interwell Non-parametric

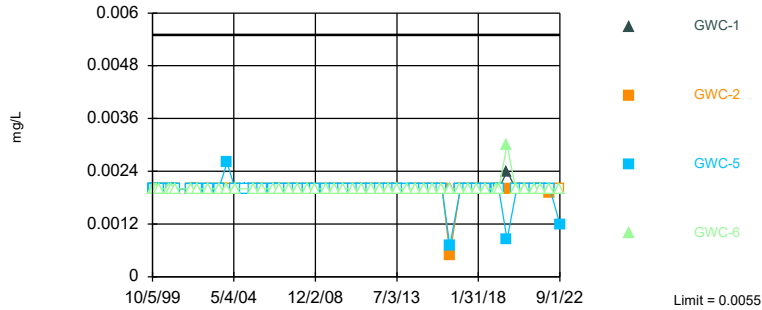


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 276 background values. 57.61% NDs. Annual per-constituent alpha = 0.0004919. Individual comparison alpha = 0.0000492 (1 of 2). Comparing 5 points to limit.

Constituent: Cobalt Analysis Run 11/5/2022 4:00 PM View: PLs Interwell State
Plant McIntosh Client: Southern Company Data: McIntosh LF 3 CCR

Within Limit

Prediction Limit
Interwell Non-parametric

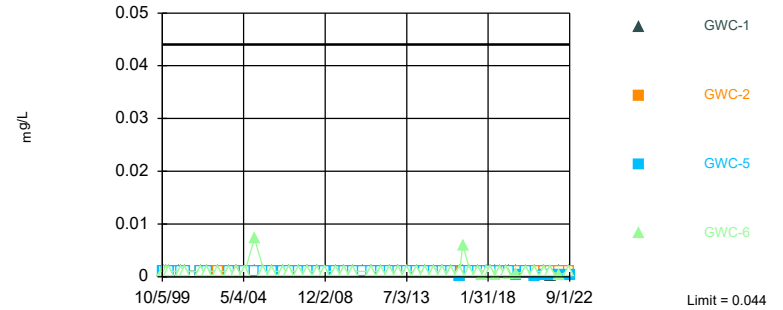


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 251 background values. 84.86% NDs. Annual per-constituent alpha = 0.0004919. Individual comparison alpha = 0.0000492 (1 of 2). Comparing 4 points to limit. Assumes 1 future value.

Constituent: Copper Analysis Run 11/5/2022 4:00 PM View: PLs Interwell State
Plant McIntosh Client: Southern Company Data: McIntosh LF 3 CCR

Within Limit

Prediction Limit
Interwell Non-parametric

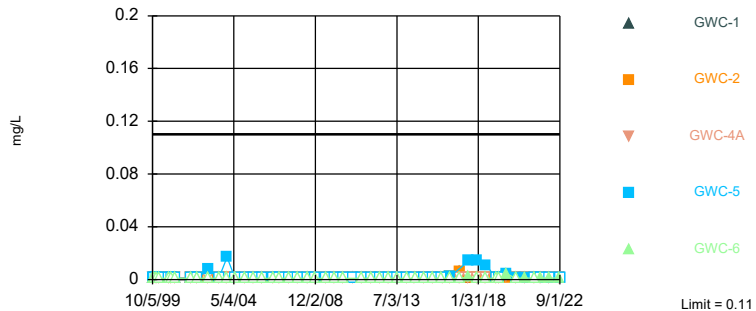


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 277 background values. 78.7% NDs. Annual per-constituent alpha = 0.0004919. Individual comparison alpha = 0.0000492 (1 of 2). Comparing 4 points to limit. Assumes 1 future value.

Constituent: Lead Analysis Run 11/5/2022 4:00 PM View: PLs Interwell State
Plant McIntosh Client: Southern Company Data: McIntosh LF 3 CCR

Within Limit

Prediction Limit
Interwell Non-parametric

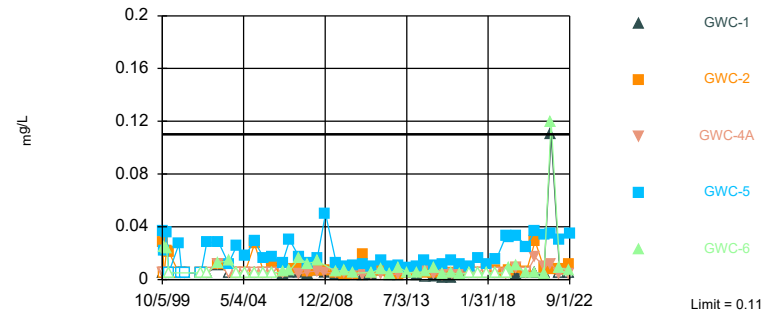


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 255 background values. 71.37% NDs. Annual per-constituent alpha = 0.0004919. Individual comparison alpha = 0.0000492 (1 of 2). Comparing 5 points to limit.

Constituent: Vanadium Analysis Run 11/5/2022 4:00 PM View: PLs Interwell State
Plant McIntosh Client: Southern Company Data: McIntosh LF 3 CCR

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 256 background values. 29.3% NDs. Annual per-constituent alpha = 0.0004919. Individual comparison alpha = 0.0000492 (1 of 2). Comparing 5 points to limit.

Constituent: Zinc Analysis Run 11/5/2022 4:00 PM View: PLs Interwell State
Plant McIntosh Client: Southern Company Data: McIntosh LF 3 CCR

Prediction Limit

Constituent: Barium (mg/L) Analysis Run 11/5/2022 4:02 PM View: PLs Interwell State

Plant McIntosh Client: Southern Company Data: McIntosh LF 3 CCR

	GWA-1A (bg)	GWA-4 (bg)	GWC-6	GWA-5 (bg)	GWC-4A	GWA-7 (bg)	GWC-1	GWC-5	GWA-3A (bg)
10/5/1999	0.084	0.013	0.017	0.1	0.095	0.26	0.096	0.47	0.031
11/12/1999	0.099	0.017	0.031	0.086	0.063	0.16	0.085	0.27	0.023
12/29/1999	0.18	0.027	0.039	0.12	0.066	0.13	0.1	0.19	0.033
2/17/2000	0.12	0.023	0.031	0.13	0.023	0.12	0.072	0.28	0.026
9/13/2000	0.038	0.022	0.043	0.18	0.056	0.01	0.15	0.29	0.044
11/10/2000	0.065	0.035	0.044	0.018	0.059	0.27	0.15	0.24	0.044
1/4/2001	0.037	0.032	0.071	0.23	0.079	0.93 (o)	0.15	0.24	0.043
12/11/2001	0.027	0.032	0.042	0.12	0.049	0.27	0.14	0.21	0.041
4/4/2002	0.027	0.03	0.043	0.094	0.048	0.043	0.14	0.21	0.038
12/6/2002	0.028	0.041	0.046	0.33	0.1	0.26	0.14	0.28	0.044
6/28/2003	0.054	0.035	0.038	0.11	0.036	0.093	0.12	0.27	0.045
12/13/2003	0.027	0.029	0.035	0.057	0.031	0.28	0.12	0.38	0.039
5/28/2004	0.18	0.033	0.037	0.035	0.038	0.04	0.12	0.28	0.042
12/10/2004	0.1	0.037	0.043	0.04	0.041	0.035	0.13	0.25	0.045
6/24/2005	0.045	0.034	0.044	0.037	0.028	0.031	0.1	0.23	0.042
12/13/2005	0.048	0.03	0.045	0.039	0.025	0.027	0.096	0.28	0.043
7/12/2006	0.13	0.03	0.037	0.042	0.033	0.3	0.083	0.24	0.043
12/1/2006	0.012	0.032	0.044	0.044	0.051	0.011	0.084	0.019 (o)	0.041
6/21/2007	0.2	0.03	0.037	0.058	0.052	0.024	0.087	0.19	0.043
12/15/2007	0.14	0.034	0.042	0.073	0.062	0.026	0.11	0.18	0.045
6/21/2008		0.037			0.065	0.032	0.093	0.19	
6/22/2008	0.1		0.04	0.096					0.05
12/6/2008		0.034		0.094	0.056	0.11	0.11		0.14
12/7/2008	0.043		0.12 (o)					0.25	
7/10/2009						0.031			0.046
7/11/2009	0.13	0.037	0.038	0.12	0.059		0.064	0.23	
12/22/2009				0.089					
12/23/2009	0.17	0.058	0.04		0.067	0.028	0.052	0.17	0.049
6/23/2010		0.046		0.081	0.084	0.028	0.051	0.22	0.043
6/24/2010	0.045		0.035						
1/8/2011		0.036		0.097	0.053	0.024	0.052	0.17	0.047
1/9/2011	0.11								
7/10/2011		0.031		0.084	0.043	0.022	0.036	0.13	0.035
7/11/2011	0.022		0.03						
1/19/2012		0.045				0.028			0.05
1/20/2012	0.043		0.039	0.099	0.054		0.065	0.15	
7/12/2012		0.039		0.12	0.053	0.026	0.074	0.13	0.042
7/13/2012	0.05		0.04						
1/21/2013	0.11	0.042	0.045	0.095	0.053	0.031	0.066	0.13	0.048
7/19/2013						0.026			
7/20/2013	0.04	0.054	0.043	0.086	0.052		0.035	0.18	0.047
1/16/2014						0.028			
1/17/2014	0.082	0.057	0.045	0.14	0.063		0.036	0.24	0.049
7/11/2014					0.068			0.26	
7/12/2014	0.034	0.042	0.036	0.17		0.023	0.037		0.043
1/15/2015		0.041				0.024			0.05
1/16/2015	0.029		0.044	0.12	0.059		0.027	0.19	
7/15/2015	0.025	0.04	0.038	0.12	0.045	0.023	0.031	0.26	0.044
1/16/2016	0.026	0.04	0.047	0.12		0.024	0.032	0.21	0.048
1/17/2016					0.052				
6/22/2016	0.0374 (D)	0.0453		0.0839	0.0528	0.02	0.0323		0.0471 (D)
6/23/2016			0.0393					0.491	

Prediction Limit

Constituent: Barium (mg/L) Analysis Run 11/5/2022 4:02 PM View: PLs Interwell State
Plant McIntosh Client: Southern Company Data: McIntosh LF 3 CCR

	GWC-2	GWA-2B (bg)	GWA-1B (bg)
10/5/1999	0.097		
11/12/1999	0.057		
12/29/1999	0.084		
2/17/2000	0.079		
9/13/2000	0.06		
11/10/2000	0.062		
1/4/2001	0.064		
12/11/2001	0.057		
4/4/2002	0.06		
12/6/2002	0.072		
6/28/2003	0.066		
12/13/2003	0.063		
5/28/2004	0.067		
12/10/2004	0.075		
6/24/2005	0.071		
12/13/2005	0.068		
7/12/2006	0.058		
12/1/2006	0.063		
6/21/2007	0.071		
12/15/2007	0.068		
6/21/2008			
6/22/2008	0.057		
12/6/2008	0.058		
12/7/2008			
7/10/2009			
7/11/2009	0.05		
12/22/2009			
12/23/2009	0.05		
6/23/2010	0.083		
6/24/2010			
1/8/2011	0.057		
1/9/2011			
7/10/2011	0.046		
7/11/2011			
1/19/2012			
1/20/2012	0.055		
7/12/2012	0.045		
7/13/2012			
1/21/2013	0.045		
7/19/2013			
7/20/2013	0.079		
1/16/2014			
1/17/2014	0.084		
7/11/2014			
7/12/2014	0.065		
1/15/2015	0.067		
1/16/2015			
7/15/2015	0.049		
1/16/2016			
1/17/2016	0.09		
6/22/2016	0.0806		
6/23/2016			

Prediction Limit

Constituent: Barium (mg/L) Analysis Run 11/5/2022 4:02 PM View: PLs Interwell State
Plant McIntosh Client: Southern Company Data: McIntosh LF 3 CCR

	GWC-2	GWA-2B (bg)	GWA-1B (bg)
8/30/2016			
8/31/2016	0.057		
9/1/2016			
1/19/2017			
1/23/2017			
1/24/2017	0.06		
1/25/2017			
1/27/2017			
2/28/2017			
7/17/2017			
7/18/2017			
7/19/2017	0.06		
7/20/2017			
9/20/2017			
9/21/2017	0.063		
9/22/2017			
1/8/2018			
1/9/2018	0.059		
1/10/2018			
3/27/2018			
3/28/2018			
3/29/2018	0.06		
7/10/2018	0.073		
7/11/2018			
10/8/2018		0.049	
10/9/2018	0.057		
1/30/2019		0.041	
1/31/2019	0.067		
3/27/2019			
3/28/2019	0.064	0.035	
9/11/2019			
9/12/2019	0.06	0.049	
3/10/2020		0.047	
3/11/2020			
3/31/2020	0.077		
4/2/2020			
9/21/2020			
9/22/2020	0.061	0.049	
3/23/2021	0.083	0.044	0.021
3/24/2021			
8/17/2021		0.047	0.022
8/18/2021	0.062		
2/7/2022		0.047	
2/8/2022	0.062		0.019
2/9/2022			
8/30/2022	0.058	0.03	0.022
8/31/2022			
9/1/2022			

Prediction Limit

Constituent: Beryllium (mg/L) Analysis Run 11/5/2022 4:02 PM View: PLs Interwell State

Plant McIntosh Client: Southern Company Data: McIntosh LF 3 CCR

	GWA-1A (bg)	GWA-4 (bg)	GWA-5 (bg)	GWC-6	GWA-7 (bg)	GWC-1	GWC-2	GWA-3A (bg)	GWC-4A
10/5/1999	<0.0025	<0.0025	<0.0025	<0.0025	<0.0025	<0.0025	<0.0025	<0.0025	<0.0025
11/12/1999	<0.0025	<0.0025	<0.0025	<0.0025	<0.0025	<0.0025	<0.0025	<0.0025	<0.0025
12/29/1999	<0.0025	<0.0025	<0.0025	<0.0025	<0.0025	<0.0025	<0.0025	<0.0025	<0.0025
2/17/2000	<0.0025	<0.0025	<0.0025	<0.0025	<0.0025	<0.0025	<0.0025	<0.0025	<0.0025
9/13/2000	<0.0025	<0.0025	<0.0025	<0.0025	<0.0025	<0.0025	<0.0025	<0.0025	<0.0025
11/10/2000	<0.0025	<0.0025	<0.0025	<0.0025	<0.0025	<0.0025	<0.0025	<0.0025	<0.0025
1/4/2001	<0.0025	<0.0025	<0.0025	<0.0025	0.016 (o)	<0.0025	<0.0025	<0.0025	<0.0025
12/11/2001	<0.0025	<0.0025	<0.0025	<0.0025	<0.0025	<0.0025	<0.0025	<0.0025	<0.0025
4/4/2002	<0.0025	<0.0025	<0.0025	<0.0025	<0.0025	<0.0025	<0.0025	<0.0025	<0.0025
12/6/2002	<0.0025	<0.0025	0.0018	<0.0025	0.0039	<0.0025	<0.0025	<0.0025	<0.0025
6/28/2003	<0.0025	<0.0025	0.0036	<0.0025	0.0013	<0.0025	<0.0025	<0.0025	<0.0025
12/13/2003	<0.0025	<0.0025	0.0019	<0.0025	0.0041	<0.0025	<0.0025	<0.0025	<0.0025
5/28/2004	<0.0025	<0.0025	<0.0025	<0.0025	<0.0025	<0.0025	<0.0025	<0.0025	<0.0025
12/10/2004	0.0028	0.0023	0.0035	0.0058 (o)	0.0025	0.0025	0.0023	0.0024	0.0023
2/5/2005				<0.0025					
6/24/2005	<0.0025	<0.0025	<0.0025	<0.0025	<0.0025	<0.0025	<0.0025	<0.0025	<0.0025
12/13/2005	<0.0025	<0.0025	<0.0025	<0.0025	<0.0025	<0.0025	<0.0025	<0.0025	<0.0025
7/12/2006	0.0013	<0.0025	0.0013	0.0013	0.005 (o)	0.0013	0.0013	<0.0025	0.0013
12/1/2006	<0.0025	<0.0025	<0.0025	<0.0025	<0.0025	<0.0025	<0.0025	<0.0025	<0.0025
6/21/2007	<0.0025	<0.0025	<0.0025	<0.0025	<0.0025	<0.0025	<0.0025	<0.0025	<0.0025
12/15/2007	<0.0025	<0.0025	<0.0025	<0.0025	<0.0025	<0.0025	<0.0025	<0.0025	<0.0025
6/21/2008		<0.0025			<0.0025	<0.0025			<0.0025
6/22/2008	<0.0025		<0.0025	<0.0025			<0.0025	<0.0025	
12/6/2008		<0.0025	<0.0025		<0.0025	<0.0025	<0.0025	<0.0025	<0.0025
12/7/2008	<0.0025			<0.0025					
7/10/2009					<0.0025			<0.0025	
7/11/2009	<0.0025	<0.0025	<0.0025	<0.0025		<0.0025	<0.0025		<0.0025
12/22/2009			<0.0025						
12/23/2009	<0.0025	<0.0025		<0.0025	<0.0025	<0.0025	<0.0025	<0.0025	<0.0025
6/23/2010		<0.0025	<0.0025		<0.0025	<0.0025	<0.0025	<0.0025	<0.0025
6/24/2010	<0.0025			<0.0025					
1/8/2011		<0.0025	<0.0025		<0.0025	<0.0025	<0.0025	<0.0025	<0.0025
1/9/2011	<0.0025								
7/10/2011		<0.0025	<0.0025		<0.0025	<0.0025	<0.0025	<0.0025	<0.0025
7/11/2011	<0.0025			<0.0025					
1/19/2012		<0.0025			<0.0025			<0.0025	
1/20/2012	<0.0025		<0.0025	<0.0025		<0.0025	<0.0025		<0.0025
7/12/2012		<0.0025	<0.0025		<0.0025	<0.0025	<0.0025	<0.0025	<0.0025
7/13/2012	<0.0025			<0.0025					
1/21/2013	<0.0025	<0.0025	<0.0025	<0.0025	<0.0025	<0.0025	<0.0025	<0.0025	<0.0025
7/19/2013					<0.0025				
7/20/2013	<0.0025	<0.0025	<0.0025	<0.0025		<0.0025	<0.0025	<0.0025	<0.0025
1/16/2014					<0.0013 (J)				
1/17/2014	<0.0013 (J)	<0.0013 (J)	<0.0013 (J)	<0.0013 (J)		<0.0025	<0.0013 (J)	<0.0025	<0.0025
7/11/2014									<0.0013 (J)
7/12/2014	<0.0013 (J)	<0.0013 (J)	<0.0013 (J)	<0.0013 (J)	<0.0013 (J)	<0.0013 (J)	<0.0013 (J)	<0.0025	
1/15/2015		0.0002 (J)			0.00027 (J)		0.00019 (J)	0.00039 (J)	
1/16/2015	0.00022 (J)		0.00043 (J)	0.00021 (J)		<0.0025			0.00012 (J)
7/15/2015	0.00015 (J)	0.00018 (J)	0.00064 (J)	0.00011 (J)	0.00021 (J)	<0.0025	0.00018 (J)	0.00031 (J)	<0.0025
1/16/2016	0.00011 (J)	0.00013 (J)	0.00039 (J)	0.00019 (J)	0.00016 (J)	<0.0025		0.00034 (J)	
1/17/2016							0.00011 (J)		<0.0025
6/22/2016	0.00025 (JD)	0.0001 (J)	0.0002 (J)		0.0002 (J)	<0.0025	0.0002 (J)	0.0004 (J)	<0.0025

Prediction Limit

Constituent: Beryllium (mg/L) Analysis Run 11/5/2022 4:02 PM View: PLs Interwell State
Plant McIntosh Client: Southern Company Data: McIntosh LF 3 CCR

	GWC-5	GWA-2B (bg)	GWA-1B (bg)
10/5/1999	<0.0025		
11/12/1999	<0.0025		
12/29/1999	<0.0025		
2/17/2000	<0.0025		
9/13/2000	<0.0025		
11/10/2000	<0.0025		
1/4/2001	<0.0025		
12/11/2001	<0.0025		
4/4/2002	<0.0025		
12/6/2002	0.0012		
6/28/2003	<0.0025		
12/13/2003	0.0014		
5/28/2004	<0.0025		
12/10/2004	0.0029		
2/5/2005			
6/24/2005	<0.0025		
12/13/2005	<0.0025		
7/12/2006	0.0013		
12/1/2006	<0.0025		
6/21/2007	<0.0025		
12/15/2007	<0.0025		
6/21/2008	<0.0025		
6/22/2008			
12/6/2008			
12/7/2008	<0.0025		
7/10/2009			
7/11/2009	<0.0025		
12/22/2009			
12/23/2009	<0.0025		
6/23/2010	<0.0025		
6/24/2010			
1/8/2011	<0.0025		
1/9/2011			
7/10/2011	<0.0025		
7/11/2011			
1/19/2012			
1/20/2012	<0.0025		
7/12/2012	<0.0025		
7/13/2012			
1/21/2013	<0.0025		
7/19/2013			
7/20/2013	<0.0025		
1/16/2014			
1/17/2014	<0.0013 (J)		
7/11/2014	<0.0013 (J)		
7/12/2014			
1/15/2015			
1/16/2015	0.00067 (J)		
7/15/2015	0.00065 (J)		
1/16/2016	0.00065 (J)		
1/17/2016			
6/22/2016			

Prediction Limit

Constituent: Beryllium (mg/L) Analysis Run 11/5/2022 4:02 PM View: PLs Interwell State
Plant McIntosh Client: Southern Company Data: McIntosh LF 3 CCR

	GWC-5	GWA-2B (bg)	GWA-1B (bg)
6/23/2016	0.0004 (J)		
8/30/2016			
8/31/2016			
9/1/2016	<0.0025		
1/19/2017			
1/23/2017			
1/24/2017	<0.0025		
1/25/2017			
1/27/2017			
2/28/2017			
7/17/2017			
7/18/2017			
7/19/2017			
7/20/2017	0.00049 (J)		
9/20/2017			
9/21/2017	0.00068 (J)		
9/22/2017			
1/8/2018			
1/9/2018			
1/10/2018	<0.0025		
3/27/2018			
3/28/2018	<0.0025		
3/29/2018			
7/10/2018			
7/11/2018	0.00043 (J)		
10/8/2018		0.0014 (J)	
10/9/2018	0.00054 (J)		
1/30/2019		0.0019 (J)	
1/31/2019	0.0012 (J)		
3/27/2019			
3/28/2019	0.0017 (J)	0.0017 (J)	
9/11/2019			
9/12/2019	0.0017	0.00088 (J)	
3/10/2020		0.00087 (J)	
3/11/2020			
3/31/2020	0.0006 (J)		
4/2/2020			
9/21/2020			
9/22/2020	0.0011 (J)	0.00042 (J)	
3/23/2021		0.00071 (J)	<0.0025
3/24/2021	0.0029		
8/17/2021		0.00068 (J)	<0.0025
8/18/2021	0.0021 (J)		
2/7/2022		0.00071 (J)	
2/8/2022			<0.0025
2/9/2022	0.0024 (J)		
8/30/2022		0.0019 (J)	<0.0025
8/31/2022			
9/1/2022	0.0018 (J)		

Prediction Limit

Constituent: Chromium (mg/L) Analysis Run 11/5/2022 4:02 PM View: PLs Interwell State

Plant McIntosh Client: Southern Company Data: McIntosh LF 3 CCR

	GWA-1A (bg)	GWC-6	GWA-4 (bg)	GWA-5 (bg)	GWC-5	GWC-1	GWA-7 (bg)	GWA-3A (bg)	GWC-2
10/5/1999	0.023	<0.002	<0.002	<0.002	<0.002	<0.002	0.097	<0.002	0.017
11/12/1999	0.03	<0.002	<0.002	<0.002	<0.002	<0.002	0.056	<0.002	<0.002
12/29/1999	0.059 (o)	<0.002	<0.002	<0.002	<0.002	<0.002	0.05	<0.002	0.011
2/17/2000	0.048 (o)	<0.002	<0.002	<0.002	<0.002	<0.002	0.058	<0.002	0.013
9/13/2000	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	0.043	<0.002	<0.002
11/10/2000	0.018	<0.002	<0.002	<0.002	<0.002	<0.002	0.011	<0.002	<0.002
1/4/2001	<0.002	0.016 (o)	<0.002	<0.002	<0.002	<0.002	0.33 (o)	<0.002	<0.002
12/11/2001	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	0.095	<0.002	<0.002
4/4/2002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	0.015	<0.002	<0.002
12/6/2002	0.0046	<0.002	0.0037	0.027	0.008 (o)	<0.002	0.07	<0.002	<0.002
6/28/2003	0.0082	0.0021	0.0039	0.0051	0.021 (o)	0.007 (o)	0.016	0.0053	0.0027
12/13/2003	<0.002	<0.002	<0.002	<0.002	0.011 (o)	<0.002	0.038	<0.002	<0.002
5/28/2004	0.016	<0.002	<0.002	0.0031	<0.002	<0.002	0.004	0.0027	<0.002
12/10/2004	0.0087	0.0046 (o)	<0.002	0.0067	<0.002	<0.002	0.0043	0.004	0.74 (o)
2/5/2005									<0.002
6/24/2005	0.0069	<0.002	<0.002	<0.002	<0.002	<0.002	0.003	0.0031	0.0023
12/13/2005	0.0075	<0.002	<0.002	<0.002	<0.002	<0.002	0.0037	0.0031	0.0031
7/12/2006	0.027	<0.002	0.023	<0.002	<0.002	<0.002	0.071	0.0025	0.0016
12/1/2006	<0.002	<0.002	0.0017	<0.002	<0.002	<0.002	0.0064	0.0037	0.0022
6/21/2007	0.012	<0.002	0.0027	0.0021	<0.002	<0.002	<0.002	0.0053	0.002
12/15/2007	0.0085	0.0016	0.0026	0.0022	0.002	<0.002	0.0044	0.0044	0.0029
6/21/2008			0.0021		0.0017	<0.002	0.004		
6/22/2008	0.021	<0.002		0.0019				0.0059	0.0023
12/6/2008			<0.002	<0.002		<0.002	0.0032	0.0031	0.0023
12/7/2008	0.01	<0.002			0.0025				
7/10/2009							0.004	0.0029	
7/11/2009	0.0073	<0.002	<0.002	<0.002	<0.002	<0.002			0.0015
12/22/2009				0.0032					
12/23/2009	0.013	<0.002	<0.002		<0.002	<0.002	0.0041	0.0025	0.0014
6/23/2010			<0.002	<0.002	<0.002	<0.002	0.0048	0.0013	0.0018
6/24/2010	0.0076	<0.002							
1/8/2011			<0.002	0.0019	<0.002	<0.002	0.0077	0.0017	0.0033
1/9/2011	0.023								
7/10/2011			<0.002	<0.002	0.0013	<0.002	0.0058	<0.002	0.0028
7/11/2011	0.0042	<0.002							
1/19/2012			<0.002				0.0059	<0.002	
1/20/2012	0.009	<0.002		<0.002	<0.002	<0.002			<0.002
7/12/2012			<0.002	0.0044	<0.002	<0.002	0.0053	<0.002	0.0025
7/13/2012	0.013	<0.002							
1/21/2013	0.032	0.0025	<0.002	<0.002	<0.002	<0.002	0.0059	0.0014	0.0022
7/19/2013							0.0063		
7/20/2013	0.01	<0.002	<0.002	0.0017	<0.002	<0.002		0.0021	0.0075
1/16/2014							0.0083		
1/17/2014	0.024	<0.002	<0.002	<0.0013 (J)	<0.002	<0.002		0.0023	0.0039
7/11/2014					<0.002				
7/12/2014	0.0069	<0.002	<0.002	0.0014		<0.002	0.0087	<0.0013 (J)	0.0031
1/15/2015			<0.002				0.0077	<0.002	0.0026
1/16/2015	0.0064	<0.002		0.0011 (J)	<0.002	<0.002			
7/15/2015	0.0051	<0.002	<0.002	0.0016	<0.002	<0.002	0.0078	<0.002	0.0032
1/16/2016	0.0066	<0.002	<0.002	<0.002	<0.002	<0.002	0.0084	0.0025	
1/17/2016									0.0029
6/22/2016	0.00815 (JD)		0.0005 (J)	0.002 (J)		0.0008 (J)	0.0061 (J)	0.00255 (JD)	0.0036 (J)

Prediction Limit

Constituent: Chromium (mg/L) Analysis Run 11/5/2022 4:02 PM View: PLs Interwell State
 Plant McIntosh Client: Southern Company Data: McIntosh LF 3 CCR

	GWA-1A (bg)	GWC-6	GWA-4 (bg)	GWA-5 (bg)	GWC-5	GWC-1	GWA-7 (bg)	GWA-3A (bg)	GWC-2
6/23/2016		<0.002			<0.002				
8/30/2016							0.0063		
8/31/2016			<0.002	0.002 (J)		<0.002		0.0042	0.0027
9/1/2016	0.12 (o)	0.0069 (o)			<0.002				
1/19/2017			<0.002	0.002 (J)			0.008	0.0039	
1/23/2017						<0.002			
1/24/2017					<0.002				0.0034
1/25/2017									
1/27/2017		<0.002 (D)							
2/28/2017	0.0012 (J)								
7/17/2017	0.003								
7/18/2017			<0.002					0.0018 (J)	
7/19/2017				0.0017 (J)		<0.002	0.0062		0.0028
7/20/2017		<0.002			<0.002				
9/20/2017	0.0025						0.0078	0.0026	
9/21/2017			<0.002	0.0021 (J)	<0.002	<0.002			0.0035
9/22/2017		0.0015 (J)							
1/8/2018	0.0038								
1/9/2018			0.0087	0.0019 (J)		<0.002		0.0038	0.003
1/10/2018		<0.002			<0.002		0.009		
3/27/2018	0.0044		<0.002	<0.002				0.0037	
3/28/2018					<0.002	<0.002	0.0081		
3/29/2018		<0.002							0.0032
7/10/2018	0.0045		<0.002	0.0012 (J)			0.0095	0.0022 (J)	0.0033
7/11/2018		0.0011 (J)			<0.002	<0.002			
10/8/2018	0.0054		<0.002	0.0015 (J)					
10/9/2018		<0.002			<0.002	<0.002	0.0026	0.0047	0.0039
1/30/2019	0.0061		0.00088 (J)	0.0014 (J)		0.0024 (J)	0.01	0.005	
1/31/2019		<0.002			<0.002				0.0061
3/27/2019	0.0044			<0.002					
3/28/2019		0.0019 (J)	<0.002		<0.002	<0.002	0.0048	0.0037	0.0049
9/11/2019	0.0076								
9/12/2019		0.0022	<0.002	0.0032	0.0051	<0.002	0.0035	<0.002	0.0048
3/10/2020	0.0041		<0.002	0.0031				<0.002	
3/11/2020		<0.002				<0.002	0.0053		
3/31/2020					<0.002				0.005
4/2/2020								0.0031	
9/21/2020	0.0049		<0.002					<0.002	
9/22/2020		<0.002		0.0017 (J)	<0.002	0.0017 (J)			0.0036
3/23/2021	0.0047							0.0022	0.0048
3/24/2021		<0.002	<0.002	<0.002	<0.002	<0.002			
8/17/2021	0.0046		<0.002	<0.002				<0.002	
8/18/2021		<0.002			<0.002	<0.002			0.0064
2/7/2022									
2/8/2022	0.0051		<0.002	0.003				<0.002	0.0046
2/9/2022		<0.002			<0.002	<0.002			
8/30/2022	0.0047		<0.002	<0.002				0.0084	0.005
8/31/2022		<0.002				<0.002			
9/1/2022					0.014				

Prediction Limit

Constituent: Chromium (mg/L) Analysis Run 11/5/2022 4:02 PM View: PLs Interwell State
Plant McIntosh Client: Southern Company Data: McIntosh LF 3 CCR

	GWC-4A	GWA-2B (bg)	GWA-1B (bg)
10/5/1999	<0.002		
11/12/1999	<0.002		
12/29/1999	<0.002		
2/17/2000	<0.002		
9/13/2000	<0.002		
11/10/2000	<0.002		
1/4/2001	<0.002		
12/11/2001	<0.002		
4/4/2002	<0.002		
12/6/2002	<0.002		
6/28/2003	0.061 (o)		
12/13/2003	<0.002		
5/28/2004	<0.002		
12/10/2004	0.0059 (o)		
2/5/2005			
6/24/2005	<0.002		
12/13/2005	<0.002		
7/12/2006	<0.002		
12/1/2006	<0.002		
6/21/2007	<0.002		
12/15/2007	<0.002		
6/21/2008	<0.002		
6/22/2008			
12/6/2008	<0.002		
12/7/2008			
7/10/2009			
7/11/2009	<0.002		
12/22/2009			
12/23/2009	<0.002		
6/23/2010	<0.002		
6/24/2010			
1/8/2011	<0.002		
1/9/2011			
7/10/2011	<0.002		
7/11/2011			
1/19/2012			
1/20/2012	<0.002		
7/12/2012	<0.002		
7/13/2012			
1/21/2013	<0.002		
7/19/2013			
7/20/2013	<0.002		
1/16/2014			
1/17/2014	<0.002		
7/11/2014	<0.002		
7/12/2014			
1/15/2015			
1/16/2015	<0.002		
7/15/2015	<0.002		
1/16/2016			
1/17/2016	<0.002		
6/22/2016	<0.002		

Prediction Limit

Constituent: Chromium (mg/L) Analysis Run 11/5/2022 4:02 PM View: PLs Interwell State
Plant McIntosh Client: Southern Company Data: McIntosh LF 3 CCR

	GWC-4A	GWA-2B (bg)	GWA-1B (bg)
6/23/2016			
8/30/2016			
8/31/2016	<0.002		
9/1/2016			
1/19/2017			
1/23/2017			
1/24/2017			
1/25/2017	<0.002 (D)		
1/27/2017			
2/28/2017			
7/17/2017			
7/18/2017			
7/19/2017			
7/20/2017	<0.002		
9/20/2017			
9/21/2017	<0.002		
9/22/2017			
1/8/2018			
1/9/2018	<0.002		
1/10/2018			
3/27/2018			
3/28/2018	0.0019 (J)		
3/29/2018			
7/10/2018	0.0029		
7/11/2018			
10/8/2018		<0.002	
10/9/2018	<0.002		
1/30/2019	<0.002	0.003	
1/31/2019			
3/27/2019			
3/28/2019	<0.002	0.0017 (J)	
9/11/2019			
9/12/2019	0.0028	<0.002	
3/10/2020		<0.002	
3/11/2020			
3/31/2020	<0.002		
4/2/2020			
9/21/2020			
9/22/2020	<0.002	<0.002	
3/23/2021		<0.002	<0.002
3/24/2021	<0.002		
8/17/2021		<0.002	<0.002
8/18/2021	<0.002		
2/7/2022		<0.002	
2/8/2022			<0.002
2/9/2022	<0.002		
8/30/2022	<0.002	0.0028	<0.002
8/31/2022			
9/1/2022			

Prediction Limit

Constituent: Cobalt (mg/L) Analysis Run 11/5/2022 4:02 PM View: PLs Interwell State

Plant McIntosh Client: Southern Company Data: McIntosh LF 3 CCR

	GWA-1A (bg)	GWC-5	GWC-4A	GWC-2	GWC-1	GWA-7 (bg)	GWA-5 (bg)	GWA-4 (bg)	GWA-3A (bg)
10/5/1999	<0.0025	<0.0025	<0.0025	<0.0025	<0.0025	0.013	<0.0025	<0.0025	<0.0025
11/12/1999	<0.0025	<0.0025	<0.0025	<0.0025	<0.0025	<0.0025	<0.0025	<0.0025	<0.0025
12/29/1999	<0.0025	<0.0025	<0.0025	<0.0025	<0.0025	<0.0025	<0.0025	<0.0025	<0.0025
2/17/2000	<0.0025	<0.0025	<0.0025	<0.0025	<0.0025	<0.0025	<0.0025	<0.0025	<0.0025
9/13/2000	<0.0025	<0.0025	<0.0025	0.01	<0.0025	<0.0025	<0.0025	<0.0025	<0.0025
11/10/2000	<0.0025	<0.0025	<0.0025	<0.0025	<0.0025	0.017	<0.0025	<0.0025	<0.0025
1/4/2001	<0.0025	<0.0025	<0.0025	<0.0025	<0.0025	0.054 (o)	<0.0025	<0.0025	<0.0025
12/11/2001	<0.0025	<0.0025	<0.0025	<0.0025	<0.0025	0.014	<0.0025	<0.0025	<0.0025
4/4/2002	<0.0025	<0.0025	<0.0025	<0.0025	<0.0025	<0.0025	<0.0025	<0.0025	<0.0025
12/6/2002	<0.0025	0.0074	<0.0025	<0.0025	<0.0025	<0.0025	<0.0025	<0.0025	<0.0025
6/28/2003	<0.0025	<0.0025	<0.0025	<0.0025	<0.0025	<0.0025	0.018 (o)	<0.0025	<0.0025
12/13/2003	<0.0025	0.0086	<0.0025	<0.0025	<0.0025	0.0076	<0.0025	<0.0025	<0.0025
5/28/2004	<0.0025	0.0065	<0.0025	<0.0025	<0.0025	<0.0025	<0.0025	<0.0025	<0.0025
12/10/2004	<0.0025	0.0052	<0.0025	0.0062	<0.0025	<0.0025	0.007	<0.0025	<0.0025
6/24/2005	<0.0025	<0.0025	<0.0025	<0.0025	<0.0025	<0.0025	0.0072	<0.0025	<0.0025
12/13/2005	<0.0025	<0.0025	<0.0025	<0.0025	<0.0025	<0.0025	0.0062	<0.0025	<0.0025
7/12/2006	0.0032	0.0055	<0.0025	<0.0025	<0.0025	0.012	0.0048	<0.0025	<0.0025
12/1/2006	0.012 (o)	0.0056	<0.0025	<0.0025	<0.0025	<0.0025	0.0032	<0.0025	<0.0025
6/21/2007	<0.0025	0.0055	<0.0025	<0.0025	<0.0025	0.0064	0.0037	<0.0025	0.0025
12/15/2007	<0.0025	0.0051	<0.0025	<0.0025	<0.0025	<0.0025	<0.0025	<0.0025	<0.0025
6/21/2008		0.0054	0.0025		0.0048 (o)	<0.0025		<0.0025	
6/22/2008	0.0031			<0.0025			0.0025		<0.0025
12/6/2008			<0.0025	<0.0025	<0.0025	<0.0025	0.0025	<0.0025	<0.0025
12/7/2008	<0.0025	0.005							
7/10/2009						<0.0025			<0.0025
7/11/2009	<0.0025	0.0049	<0.0025	<0.0025	<0.0025		<0.0025	<0.0025	
12/22/2009							0.0025		
12/23/2009	<0.0025	0.0035	<0.0025	<0.0025	<0.0025	<0.0025		<0.0025	<0.0025
6/23/2010		0.0039	<0.0025	<0.0025	<0.0025	<0.0025	<0.0025	<0.0025	<0.0025
6/24/2010	<0.0025								
1/8/2011		0.0046	<0.0025	<0.0025	<0.0025	<0.0025	0.0026	<0.0025	<0.0025
1/9/2011	0.0031								
7/10/2011		0.0036	<0.0025	<0.0025	<0.0025	<0.0025	<0.0025	<0.0025	<0.0025
7/11/2011	<0.0025								
1/19/2012						<0.0025		<0.0025	<0.0025
1/20/2012	<0.0025	0.0042	<0.0025	<0.0025	<0.0025		<0.0025		
7/12/2012		0.0037	<0.0025	<0.0025	<0.0025	<0.0025	0.002	<0.0025	<0.0025
7/13/2012	0.0015								
1/21/2013	0.0035	0.0038	<0.0025	<0.0025	<0.0025	<0.0025	0.0014	<0.0025	<0.0025
7/19/2013						<0.0025			
7/20/2013	<0.0025	0.003	<0.0025	<0.0025	<0.0025		<0.0025	<0.0025	<0.0025
1/16/2014						<0.0013 (J)			
1/17/2014	0.0027	0.0036	<0.0025	<0.0025	<0.0025		0.0019	<0.0013 (J)	<0.0013 (J)
7/11/2014		0.0056	<0.0025						
7/12/2014	<0.0013 (J)			<0.0013 (J)	<0.0025	<0.0025	0.0026	<0.0013 (J)	<0.0013 (J)
1/15/2015				0.00096 (J)		<0.0025		0.00084 (J)	0.00086 (J)
1/16/2015	<0.0025	0.0042	0.00071 (J)		<0.0025		0.0021		
7/15/2015	<0.0025	0.0052	0.00064 (J)	0.0006 (J)	<0.0025	<0.0025	0.0023	0.00083 (J)	0.00087 (J)
1/16/2016	0.00059 (J)	0.0056			<0.0025	<0.0025	0.002	0.00092 (J)	0.0011 (J)
1/17/2016			0.00066 (J)	0.00069 (J)					
6/22/2016	0.00085 (JD)		0.0009 (J)	0.0011 (J)	<0.0025	<0.0025	0.0007 (J)	0.0005 (J)	0.0009 (J)
6/23/2016		0.0073 (J)							

Prediction Limit

Constituent: Cobalt (mg/L) Analysis Run 11/5/2022 4:02 PM View: PLs Interwell State
 Plant McIntosh Client: Southern Company Data: McIntosh LF 3 CCR

	GWA-1A (bg)	GWC-5	GWC-4A	GWC-2	GWC-1	GWA-7 (bg)	GWA-5 (bg)	GWA-4 (bg)	GWA-3A (bg)
8/30/2016						<0.0025			
8/31/2016			0.0006 (J)	0.0006 (J)	<0.0025		0.001 (J)	0.00055 (J)	0.00095 (J)
9/1/2016	0.023 (o)	0.011							
1/19/2017						<0.0025	0.00046 (J)	0.00041 (J)	0.00087 (J)
1/23/2017					<0.0025				
1/24/2017		0.009		0.00067 (J)					
1/25/2017			0.00047 (J)						
1/27/2017									
2/28/2017	0.00048 (J)								
7/17/2017	<0.0025								
7/18/2017								0.0007 (J)	0.001 (J)
7/19/2017				0.00079 (J)	<0.0025	<0.0025	0.00069 (J)		
7/20/2017		0.0091	<0.0025						
9/20/2017	<0.0025					0.00041 (J)			0.0011 (J)
9/21/2017		0.0093	<0.0025	0.00077 (J)	<0.0025		0.00073 (J)	0.00073 (J)	
9/22/2017									
1/8/2018	<0.0025								
1/9/2018			0.00048 (J)	0.00092 (J)	<0.0025		0.0014 (J)	0.0012 (J)	0.0011 (J)
1/10/2018		0.0097				<0.0025			
3/27/2018	<0.0025						0.0019 (J)	0.00081 (J)	0.0011 (J)
3/28/2018		0.01	0.00048 (J)		<0.0025	<0.0025			
3/29/2018				0.0008 (J)					
7/10/2018	<0.0025		0.00084 (J)	0.00097 (J)		0.00066 (J)	0.0015 (J)	0.00086 (J)	0.0012 (J)
7/11/2018		0.011			<0.0025				
10/8/2018	<0.0025						<0.0025	<0.0025	
10/9/2018		0.012	<0.0025	<0.0025	<0.0025	<0.0025			<0.0025
1/30/2019	0.00038 (J)		0.00038 (J)		0.00023 (J)	0.0012 (J)	0.00076 (J)	0.00092 (J)	0.0014 (J)
1/31/2019		0.013		0.00092 (J)					
3/27/2019	<0.0025						0.0012 (J)		
3/28/2019		0.013	<0.0025	0.00072 (J)	<0.0025	<0.0025		0.00089 (J)	0.0014 (J)
9/11/2019	0.00032 (J)								
9/12/2019		0.013	0.00044 (J)	0.0009	0.00027 (J)	0.00048 (J)	0.00074	0.00091	0.0015
3/10/2020	0.00028 (J)						0.00099	0.0009	0.0019
3/11/2020					0.00026 (J)	0.00033 (J)			
3/31/2020		0.012	0.00033 (J)	0.00061 (J)					
4/2/2020									0.0017 (J)
9/21/2020	0.0003 (J)							0.00059 (J)	0.0016 (J)
9/22/2020		0.011	0.00042 (J)	0.00092 (J)	0.00021 (J)		0.00064 (J)		
3/23/2021	0.00028 (J)			0.00069 (J)					0.0017 (J)
3/24/2021		0.012	0.00037 (J)		0.0002 (J)		0.00077 (J)	0.00069 (J)	
8/17/2021	0.00032 (J)						0.00085 (J)	0.00096 (J)	0.002 (J)
8/18/2021		0.013	0.00034 (J)	0.0011 (J)	0.00031 (J)				
2/7/2022									
2/8/2022	0.00029 (J)			0.0013 (J)			0.001 (J)	0.00096 (J)	0.0019 (J)
2/9/2022		0.011	0.00042 (J)		0.0003 (J)				
8/30/2022	0.00031 (J)		0.00048 (J)	0.0012 (J)			0.0016 (J)	0.00097 (J)	0.0023 (J)
8/31/2022					0.00036 (J)				
9/1/2022		0.012							

Prediction Limit

Constituent: Cobalt (mg/L) Analysis Run 11/5/2022 4:02 PM View: PLs Interwell State
Plant McIntosh Client: Southern Company Data: McIntosh LF 3 CCR

	GWC-6	GWA-2B (bg)	GWA-1B (bg)
10/5/1999	<0.0025		
11/12/1999	<0.0025		
12/29/1999	<0.0025		
2/17/2000	<0.0025		
9/13/2000	<0.0025		
11/10/2000	<0.0025		
1/4/2001	<0.0025		
12/11/2001	<0.0025		
4/4/2002	<0.0025		
12/6/2002	<0.0025		
6/28/2003	<0.0025		
12/13/2003	<0.0025		
5/28/2004	<0.0025		
12/10/2004	<0.0025		
6/24/2005	<0.0025		
12/13/2005	<0.0025		
7/12/2006	<0.0025		
12/1/2006	<0.0025		
6/21/2007	<0.0025		
12/15/2007	<0.0025		
6/21/2008			
6/22/2008	<0.0025		
12/6/2008			
12/7/2008	<0.0025		
7/10/2009			
7/11/2009	<0.0025		
12/22/2009			
12/23/2009	<0.0025		
6/23/2010			
6/24/2010	<0.0025		
1/8/2011			
1/9/2011	<0.0025		
7/10/2011			
7/11/2011	<0.0025		
1/19/2012			
1/20/2012	<0.0025		
7/12/2012			
7/13/2012	<0.0025		
1/21/2013	<0.0025		
7/19/2013			
7/20/2013	<0.0025		
1/16/2014			
1/17/2014	<0.0013 (J)		
7/11/2014			
7/12/2014	<0.0025		
1/15/2015			
1/16/2015	<0.0025		
7/15/2015	<0.0025		
1/16/2016	0.00055 (J)		
1/17/2016			
6/22/2016			
6/23/2016	0.0005 (J)		

Prediction Limit

Constituent: Cobalt (mg/L) Analysis Run 11/5/2022 4:02 PM View: PLs Interwell State
Plant McIntosh Client: Southern Company Data: McIntosh LF 3 CCR

	GWC-6	GWA-2B (bg)	GWA-1B (bg)
8/30/2016			
8/31/2016			
9/1/2016	0.0014 (J)		
1/19/2017			
1/23/2017			
1/24/2017			
1/25/2017			
1/27/2017	0.00052 (J)		
2/28/2017			
7/17/2017			
7/18/2017			
7/19/2017			
7/20/2017	0.00062 (J)		
9/20/2017			
9/21/2017			
9/22/2017	0.00048 (J)		
1/8/2018			
1/9/2018			
1/10/2018	<0.0025		
3/27/2018			
3/28/2018			
3/29/2018	0.00052 (J)		
7/10/2018			
7/11/2018	0.00064 (J)		
10/8/2018		0.0051	
10/9/2018	<0.0025		
1/30/2019		0.0044	
1/31/2019	0.00076 (J)		
3/27/2019			
3/28/2019	0.0007 (J)	0.0046	
9/11/2019			
9/12/2019	0.00077	0.0023	
3/10/2020		0.003	
3/11/2020	0.00073		
3/31/2020			
4/2/2020			
9/21/2020			
9/22/2020	0.00058 (J)	<0.0025	
3/23/2021		0.00096 (J)	0.00019 (J)
3/24/2021	0.00046 (J)		
8/17/2021		0.00016 (J)	0.00025 (J)
8/18/2021	0.0005 (J)		
2/7/2022		0.00073 (J)	
2/8/2022			0.00032 (J)
2/9/2022	0.00059 (J)		
8/30/2022		0.004	0.00029 (J)
8/31/2022	0.00058 (J)		
9/1/2022			

Prediction Limit

Constituent: Copper (mg/L) Analysis Run 11/5/2022 4:02 PM View: PLs Interwell State

Plant McIntosh Client: Southern Company Data: McIntosh LF 3 CCR

	GWA-1A (bg)	GWA-7 (bg)	GWA-4 (bg)	GWC-1	GWC-2	GWA-3A (bg)	GWC-5	GWC-6	GWA-5 (bg)
10/5/1999	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002
11/12/1999	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002
12/29/1999	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002
2/17/2000	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002
9/13/2000	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002
11/10/2000	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002
1/4/2001	<0.002	0.054 (o)	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002
12/11/2001	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002
4/4/2002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002
12/6/2002	<0.002	0.012 (o)	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	0.0089 (o)
6/28/2003	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	0.019 (o)
12/13/2003	<0.002	0.01 (o)	<0.002	<0.002	<0.002	<0.002	0.0026	<0.002	0.0067 (o)
5/28/2004	0.0052	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	0.0057 (o)
12/10/2004	<0.002	<0.002	<0.002	<0.002	0.11 (o)	<0.002	<0.002	0.0044 (o)	0.0027
6/24/2005	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	0.0038
12/13/2005	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002
7/12/2006	0.0055	0.016 (o)	<0.002	0.0047 (o)	<0.002	<0.002	<0.002	<0.002	0.0033
12/1/2006	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002
6/21/2007	0.0032	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	0.0035
12/15/2007	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002
6/21/2008		<0.002	<0.002	<0.002			<0.002		
6/22/2008	<0.002				<0.002	<0.002		<0.002	<0.002
12/6/2008		<0.002	<0.002	<0.002	<0.002	<0.002			<0.002
12/7/2008	<0.002						<0.002	<0.002	
7/10/2009		<0.002				<0.002			
7/11/2009	<0.002		<0.002	<0.002	<0.002		<0.002	<0.002	<0.002
12/22/2009									0.0025
12/23/2009	0.0025	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	
6/23/2010		<0.002	<0.002	<0.002	<0.002	<0.002	<0.002		<0.002
6/24/2010	<0.002							<0.002	
1/8/2011		<0.002	<0.002	<0.002	<0.002	<0.002	<0.002		<0.002
1/9/2011	0.004							<0.002	
7/10/2011		<0.002	<0.002	<0.002	<0.002	<0.002	<0.002		<0.002
7/11/2011	<0.002							<0.002	
1/19/2012		<0.002	<0.002			<0.002			
1/20/2012	<0.002			<0.002	<0.002		<0.002	<0.002	<0.002
7/12/2012		<0.002	<0.002	<0.002	<0.002	<0.002	<0.002		<0.002
7/13/2012	<0.002							<0.002	
1/21/2013	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002
7/19/2013		<0.002							
7/20/2013	<0.002		<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002
1/16/2014		<0.002							
1/17/2014	<0.005 (J)		<0.002	<0.002	0.0065 (o)	<0.002	<0.002	<0.002	<0.005 (J)
7/11/2014							<0.002		
7/12/2014	<0.005 (J)	<0.002	<0.002	<0.002	<0.002	<0.002		<0.002	<0.002
1/15/2015		<0.002	<0.002		<0.002	<0.002			
1/16/2015	<0.002			<0.002			<0.002	<0.002	<0.002
7/15/2015	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002
1/16/2016	<0.002	<0.002	<0.002	<0.002		<0.002	<0.002	<0.002	<0.002
1/17/2016					<0.002				
6/22/2016	0.002 (JD)	<0.002	<0.002	<0.002	0.0005 (J)	0.00205 (JD)			0.001
6/23/2016							0.0007 (J)	<0.002	

Prediction Limit

Constituent: Copper (mg/L) Analysis Run 11/5/2022 4:02 PM View: PLs Interwell State
 Plant McIntosh Client: Southern Company Data: McIntosh LF 3 CCR

	GWA-1A (bg)	GWA-7 (bg)	GWA-4 (bg)	GWC-1	GWC-2	GWA-3A (bg)	GWC-5	GWC-6	GWA-5 (bg)
1/19/2017		<0.002	<0.002			<0.002			<0.002
1/23/2017				<0.002					
1/24/2017					<0.002		<0.002		
1/27/2017								<0.002	
2/28/2017	<0.002								
7/17/2017	<0.002								
7/18/2017			<0.002			<0.002			
7/19/2017		<0.002		<0.002	<0.002				<0.002
7/20/2017							<0.002	<0.002	
1/8/2018	<0.002								
1/9/2018			0.0025	<0.002	<0.002	<0.002			<0.002
1/10/2018		<0.002					<0.002	<0.002	
7/10/2018	<0.002	<0.002	<0.002		<0.002	<0.002			<0.002
7/11/2018				<0.002			<0.002	<0.002	
1/30/2019	<0.002	0.0016 (J)	<0.002	<0.002		<0.002			<0.002
1/31/2019					<0.002		<0.002	<0.002	
3/27/2019	<0.002								<0.002
3/28/2019		<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	
9/11/2019	<0.002								
9/12/2019		0.0026	0.0022	0.0024	0.002	0.0024	0.00084 (J)	0.003	0.0011 (J)
3/10/2020	<0.002		<0.002			0.00082 (J)			0.0019 (J)
3/11/2020		<0.002		<0.002				<0.002	
3/31/2020					<0.002		<0.002		
4/2/2020						0.0019 (J)			
9/21/2020	<0.002		<0.002			<0.002			
9/22/2020				<0.002	<0.002		<0.002	<0.002	0.0013 (J)
3/23/2021	<0.002				<0.002	<0.002			
3/24/2021			<0.002	<0.002			<0.002	<0.002	0.00077 (J)
8/17/2021	<0.002		<0.002			<0.002		<0.002	<0.002
8/18/2021				<0.002	<0.002		<0.002	<0.002	
2/7/2022									
2/8/2022	<0.002		<0.002		0.0019 (J)	0.0011 (J)			<0.002
2/9/2022				<0.002			<0.002	<0.002	
8/30/2022	<0.002		0.0012 (J)		<0.002	0.0029			0.0011 (J)
8/31/2022				<0.002				<0.002	
9/1/2022							0.0012 (J)		

Prediction Limit

Constituent: Copper (mg/L) Analysis Run 11/5/2022 4:02 PM View: PLs Interwell State
Plant McIntosh Client: Southern Company Data: McIntosh LF 3 CCR

GWA-2B (bg) GWA-1B (bg)

10/5/1999
11/12/1999
12/29/1999
2/17/2000
9/13/2000
11/10/2000
1/4/2001
12/11/2001
4/4/2002
12/6/2002
6/28/2003
12/13/2003
5/28/2004
12/10/2004
6/24/2005
12/13/2005
7/12/2006
12/1/2006
6/21/2007
12/15/2007
6/21/2008
6/22/2008
12/6/2008
12/7/2008
7/10/2009
7/11/2009
12/22/2009
12/23/2009
6/23/2010
6/24/2010
1/8/2011
1/9/2011
7/10/2011
7/11/2011
1/19/2012
1/20/2012
7/12/2012
7/13/2012
1/21/2013
7/19/2013
7/20/2013
1/16/2014
1/17/2014
7/11/2014
7/12/2014
1/15/2015
1/16/2015
7/15/2015
1/16/2016
1/17/2016
6/22/2016
6/23/2016

Prediction Limit

Constituent: Copper (mg/L) Analysis Run 11/5/2022 4:02 PM View: PLs Interwell State
Plant McIntosh Client: Southern Company Data: McIntosh LF 3 CCR

	GWA-2B (bg)	GWA-1B (bg)
1/19/2017		
1/23/2017		
1/24/2017		
1/27/2017		
2/28/2017		
7/17/2017		
7/18/2017		
7/19/2017		
7/20/2017		
1/8/2018		
1/9/2018		
1/10/2018		
7/10/2018		
7/11/2018		
1/30/2019	0.0035	
1/31/2019		
3/27/2019		
3/28/2019	0.0031	
9/11/2019		
9/12/2019	0.0038	
3/10/2020	0.0021	
3/11/2020		
3/31/2020		
4/2/2020		
9/21/2020		
9/22/2020	0.00096 (J)	
3/23/2021	0.0011 (J)	0.0015 (J)
3/24/2021		
8/17/2021	0.0043	<0.002
8/18/2021		
2/7/2022	0.0012 (J)	
2/8/2022		<0.002
2/9/2022		
8/30/2022	0.0013 (J)	<0.002
8/31/2022		
9/1/2022		

Prediction Limit

Constituent: Lead (mg/L) Analysis Run 11/5/2022 4:02 PM View: PLs Interwell State

Plant McIntosh Client: Southern Company Data: McIntosh LF 3 CCR

	GWA-1A (bg)	GWC-5	GWA-3A (bg)	GWC-6	GWA-4 (bg)	GWA-5 (bg)	GWC-1	GWA-7 (bg)	GWC-2
10/5/1999	0.007	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	0.024	0.0054 (o)
11/12/1999	0.0063 (o)	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	0.012	<0.001
12/29/1999	0.016	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	0.012	<0.001
2/17/2000	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
9/13/2000	<0.001	<0.001	<0.001	0.079 (o)	<0.001	<0.001	<0.001	0.044	<0.001
11/10/2000	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	0.024	<0.001
1/4/2001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	0.094 (o)	<0.001
12/11/2001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	0.024	<0.001
4/4/2002	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
12/6/2002	<0.001	0.007 (o)	<0.001	<0.001	<0.001	0.011	<0.001	0.023	<0.001
6/28/2003	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	0.0091	<0.001
12/13/2003	<0.001	0.018 (o)	<0.001	<0.001	<0.001	<0.001	<0.001	0.024	<0.001
5/28/2004	0.015	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
12/10/2004	0.01	<0.001	<0.001	0.0073	<0.001	<0.001	<0.001	<0.001	<0.001
6/24/2005	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
12/13/2005	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
7/12/2006	0.013	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	0.028	<0.001
12/1/2006	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
6/21/2007	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
12/15/2007	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
6/21/2008		<0.001			<0.001		<0.001	<0.001	
6/22/2008	<0.001		<0.001	<0.001		<0.001			<0.001
12/6/2008			<0.001		<0.001	<0.001	<0.001	<0.001	<0.001
12/7/2008	<0.001	<0.001		<0.001					
7/10/2009			<0.001					<0.001	
7/11/2009	<0.001	<0.001		<0.001	<0.001	<0.001	<0.001		<0.001
12/22/2009						<0.001			
12/23/2009	<0.001	<0.001	<0.001	<0.001	<0.001		<0.001	<0.001	<0.001
6/23/2010		<0.001	<0.001		<0.001	<0.001	<0.001	<0.001	<0.001
6/24/2010	<0.001			<0.001					
1/8/2011		<0.001	<0.001		<0.001	<0.001	<0.001	<0.001	<0.001
1/9/2011	<0.001								
7/10/2011		<0.001	<0.001		<0.001	<0.001	<0.001	<0.001	<0.001
7/11/2011	<0.001			<0.001					
1/19/2012			<0.001		<0.001			<0.001	
1/20/2012	<0.001	<0.001		<0.001		<0.001	<0.001		<0.001
7/12/2012		<0.001	<0.001		<0.001	<0.001	<0.001	<0.001	<0.001
7/13/2012	<0.001			<0.001					
1/21/2013	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
7/19/2013								<0.001	
7/20/2013	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001		<0.001
1/16/2014								<0.001	
1/17/2014	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001		<0.001
7/11/2014		<0.001							
7/12/2014	<0.001		<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
1/15/2015			<0.001		<0.001			<0.001	<0.001
1/16/2015	<0.001	<0.001		<0.001		<0.001	<0.001		
7/15/2015	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
1/16/2016	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	
1/17/2016									<0.001
6/22/2016	0.00125 (JD)		0.00025 (JD)		0.0003 (J)	0.001 (J)	<0.001	0.0002 (J)	0.0001 (J)
6/23/2016		0.0001 (J)		<0.001					

Prediction Limit

Constituent: Lead (mg/L) Analysis Run 11/5/2022 4:02 PM View: PLs Interwell State
 Plant McIntosh Client: Southern Company Data: McIntosh LF 3 CCR

	GWA-1A (bg)	GWC-5	GWA-3A (bg)	GWC-6	GWA-4 (bg)	GWA-5 (bg)	GWC-1	GWA-7 (bg)	GWC-2
8/30/2016								<0.001	
8/31/2016			<0.001		<0.001	0.00099 (J)	<0.001		<0.001
9/1/2016	0.082 (o)	<0.001		0.006					
1/19/2017			<0.001		<0.001	0.001 (J)		<0.001	
1/23/2017							<0.001		
1/24/2017		<0.001							<0.001
1/27/2017				<0.001 (D)					
2/28/2017	<0.001								
7/17/2017	<0.001								
7/18/2017			<0.001		<0.001				
7/19/2017						0.00081 (J)	<0.001	<0.001	<0.001
7/20/2017		<0.001		<0.001					
9/20/2017	0.00035 (J)		<0.001					0.00054 (J)	
9/21/2017		<0.001			0.0076	0.00086 (J)	0.004 (o)		0.0014 (o)
9/22/2017				0.00042 (J)					
1/8/2018	<0.001								
1/9/2018			<0.001		0.0023	0.00059 (J)	<0.001		<0.001
1/10/2018		<0.001		<0.001				<0.001	
3/27/2018	<0.001		<0.001		<0.001	<0.001			
3/28/2018		<0.001					<0.001	<0.001	
3/29/2018				<0.001					<0.001
7/10/2018	<0.001		<0.001		<0.001	0.00045 (J)		0.0013	<0.001
7/11/2018		<0.001		0.00037 (J)			<0.001		
10/8/2018	<0.001				<0.001	<0.001			
10/9/2018		<0.001	<0.001	<0.001			<0.001	<0.001	<0.001
1/30/2019	0.00021 (J)		0.00034 (J)		0.00013 (J)	0.00064 (J)	<0.001	0.0021	
1/31/2019		<0.001		<0.001					<0.001
3/27/2019	<0.001					0.0012 (J)			
3/28/2019		<0.001	0.00038 (J)	0.00052 (J)	<0.001		<0.001	<0.001	<0.001
9/11/2019	<0.001								
9/12/2019		0.00024 (J)	<0.001	0.00065 (J)	<0.001	0.00082 (J)	<0.001	0.00036 (J)	<0.001
3/10/2020	0.00015 (J)		0.00013 (J)		0.00031 (J)	0.0022			
3/11/2020				<0.001			<0.001	0.00015 (J)	
3/31/2020		<0.001							<0.001
4/2/2020			0.00062 (J)						
9/21/2020	<0.001		<0.001		0.00025 (J)				
9/22/2020		0.00013 (J)		<0.001		0.0012	<0.001		<0.001
3/23/2021	0.00017 (J)		0.00029 (J)						<0.001
3/24/2021		0.00034 (J)		<0.001	0.00021 (J)	0.00066 (J)	<0.001		
8/17/2021	<0.001		0.00015 (J)		<0.001	0.00044 (J)			
8/18/2021		0.00032 (J)		<0.001			0.00015 (J)		<0.001
2/7/2022									
2/8/2022	<0.001		<0.001		<0.001	0.00058 (J)			<0.001
2/9/2022		0.00033 (J)		0.00039 (J)			<0.001		
8/30/2022	<0.001		<0.001		<0.001	0.00064 (J)			<0.001
8/31/2022				<0.001			<0.001		
9/1/2022		0.00031 (J)							

Prediction Limit

Constituent: Lead (mg/L) Analysis Run 11/5/2022 4:02 PM View: PLs Interwell State
Plant McIntosh Client: Southern Company Data: McIntosh LF 3 CCR

GWA-2B (bg) GWA-1B (bg)

10/5/1999
11/12/1999
12/29/1999
2/17/2000
9/13/2000
11/10/2000
1/4/2001
12/11/2001
4/4/2002
12/6/2002
6/28/2003
12/13/2003
5/28/2004
12/10/2004
6/24/2005
12/13/2005
7/12/2006
12/1/2006
6/21/2007
12/15/2007
6/21/2008
6/22/2008
12/6/2008
12/7/2008
7/10/2009
7/11/2009
12/22/2009
12/23/2009
6/23/2010
6/24/2010
1/8/2011
1/9/2011
7/10/2011
7/11/2011
1/19/2012
1/20/2012
7/12/2012
7/13/2012
1/21/2013
7/19/2013
7/20/2013
1/16/2014
1/17/2014
7/11/2014
7/12/2014
1/15/2015
1/16/2015
7/15/2015
1/16/2016
1/17/2016
6/22/2016
6/23/2016

Prediction Limit

Constituent: Lead (mg/L) Analysis Run 11/5/2022 4:02 PM View: PLs Interwell State
Plant McIntosh Client: Southern Company Data: McIntosh LF 3 CCR

	GWA-2B (bg)	GWA-1B (bg)
8/30/2016		
8/31/2016		
9/1/2016		
1/19/2017		
1/23/2017		
1/24/2017		
1/27/2017		
2/28/2017		
7/17/2017		
7/18/2017		
7/19/2017		
7/20/2017		
9/20/2017		
9/21/2017		
9/22/2017		
1/8/2018		
1/9/2018		
1/10/2018		
3/27/2018		
3/28/2018		
3/29/2018		
7/10/2018		
7/11/2018		
10/8/2018	<0.001	
10/9/2018		
1/30/2019	0.00028 (J)	
1/31/2019		
3/27/2019		
3/28/2019	<0.001	
9/11/2019		
9/12/2019	<0.001	
3/10/2020	<0.001	
3/11/2020		
3/31/2020		
4/2/2020		
9/21/2020		
9/22/2020	<0.001	
3/23/2021	<0.001	<0.001
3/24/2021		
8/17/2021	0.00073 (J)	<0.001
8/18/2021		
2/7/2022	<0.001	
2/8/2022		<0.001
2/9/2022		
8/30/2022	<0.001	<0.001
8/31/2022		
9/1/2022		

Prediction Limit

Constituent: Vanadium (mg/L) Analysis Run 11/5/2022 4:02 PM View: PLs Interwell State

Plant McIntosh Client: Southern Company Data: McIntosh LF 3 CCR

	GWA-1A (bg)	GWC-1	GWA-7 (bg)	GWC-5	GWC-4A	GWC-6	GWA-4 (bg)	GWA-3A (bg)	GWA-5 (bg)
10/5/1999	0.02	<0.001	0.087	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
11/12/1999	0.027	<0.001	0.05	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
12/29/1999	0.055	<0.001	0.045	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
2/17/2000	0.042	<0.001		<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
9/13/2000	<0.001	<0.001	0.028	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
11/10/2000	0.014	<0.001	0.11	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
1/4/2001	<0.001	<0.001	0.32 (o)	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
12/11/2001	<0.001	<0.001	0.091	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
4/4/2002	<0.001	<0.001	0.012	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
12/6/2002	<0.001	<0.001	0.07	0.0082	<0.001	<0.001	<0.001	<0.001	0.03
6/28/2003	<0.001	<0.001	0.016	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
12/13/2003	<0.001	<0.001	0.046	0.017	<0.001	<0.001	<0.001	<0.001	<0.001
5/28/2004	0.017	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
12/10/2004	0.0082	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
6/24/2005	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
12/13/2005	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
7/12/2006	0.023	<0.001	0.071 (o)	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
12/1/2006	0.0081	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
6/21/2007	0.009	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	0.0038	0.07 (o)
12/15/2007	0.0056	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
6/21/2008		<0.001	0.0026	<0.001	<0.001		<0.001		
6/22/2008	0.013					<0.001		<0.001	0.0026
12/6/2008		<0.001	<0.001		<0.001		<0.001	<0.001	<0.001
12/7/2008	0.0027			<0.001		<0.001			
7/10/2009			<0.001					<0.001	
7/11/2009	0.0032	<0.001		<0.001	<0.001	<0.001	<0.001		<0.001
12/22/2009									<0.001
12/23/2009	0.0093	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	
6/23/2010		<0.001	<0.001	<0.001	<0.001		<0.001	<0.001	<0.001
6/24/2010	0.0033					<0.001			
1/8/2011		<0.001	<0.001	<0.001	<0.001		<0.001	<0.001	<0.001
1/9/2011	<0.001								
7/10/2011		<0.001	<0.001	<0.001	<0.001		<0.001	<0.001	<0.001
7/11/2011	<0.001					<0.001			
1/19/2012			<0.001				<0.001	<0.001	
1/20/2012	<0.001	<0.001		<0.001	<0.001	<0.001			<0.001
7/12/2012		<0.001	<0.001	<0.001	<0.001		<0.001	<0.001	<0.001
7/13/2012	0.011					<0.001			
1/21/2013	0.028	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
7/19/2013			<0.001						
7/20/2013	<0.001	<0.001		<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
1/16/2014			<0.001						
1/17/2014	0.019	<0.001		<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
7/11/2014				<0.001	<0.001				
7/12/2014	<0.005 (J)	<0.001	<0.001			<0.001	<0.001	<0.001	<0.001
1/15/2015			0.002 (J)				<0.001	<0.001	
1/16/2015	0.0012 (J)	<0.001		<0.001	<0.001	<0.001			0.0011 (J)
7/15/2015	<0.001	<0.001	0.0015 (J)	<0.001	<0.001	<0.001	<0.001	<0.001	0.0016 (J)
1/16/2016	0.0015 (J)	<0.001	0.001 (J)	<0.001		<0.001	0.00082 (J)	0.0011 (J)	<0.001
1/17/2016					<0.001				
6/22/2016	0.0081 (JD)	<0.001	<0.001		<0.001		<0.001	<0.001	0.0018 (J)
6/23/2016				0.0021 (J)		<0.001			

Prediction Limit

Constituent: Vanadium (mg/L) Analysis Run 11/5/2022 4:02 PM View: PLs Interwell State
 Plant McIntosh Client: Southern Company Data: McIntosh LF 3 CCR

	GWA-1A (bg)	GWC-1	GWA-7 (bg)	GWC-5	GWC-4A	GWC-6	GWA-4 (bg)	GWA-3A (bg)	GWA-5 (bg)
1/19/2017			0.0025				0.0025	<0.001	0.0033
1/23/2017		0.0063							
1/24/2017				0.044 (o)					
1/25/2017					<0.001				
1/27/2017						<0.001			
2/28/2017	0.0019 (J)								
7/17/2017	<0.001								
7/18/2017							<0.001	<0.001	
7/19/2017		<0.001	0.0025						0.0045
7/20/2017				0.014	<0.001	0.0021 (J)			
1/8/2018	<0.001								
1/9/2018		<0.001			<0.001		0.0072	<0.001	0.0027
1/10/2018			0.0015 (J)	0.014		<0.001			
7/10/2018	<0.001		<0.001		<0.001		<0.001	<0.001	<0.001
7/11/2018		<0.001		0.011 (J)		<0.001			
1/30/2019	<0.001	<0.001	0.0043		<0.001		<0.001	<0.001	0.0019 (J)
1/31/2019				<0.001		<0.001			
3/27/2019	<0.001								<0.001
3/28/2019		<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	
9/11/2019	0.0014								
9/12/2019		0.0023	0.0037	0.0044	0.0021	0.0043	0.0017	0.002	0.004
3/10/2020	<0.001						<0.001	<0.001	0.01
3/11/2020		<0.001	0.0013			<0.001			
3/31/2020				0.0016	<0.001				
4/2/2020								0.0013	
9/21/2020	<0.001						0.0012	<0.001	
9/22/2020		<0.001		0.0015	<0.001	0.0011			0.0056
3/23/2021	<0.001							<0.001	
3/24/2021		<0.001		<0.001	<0.001	<0.001	<0.001		0.0018
8/17/2021	<0.001			<0.001	<0.001		<0.001	<0.001	0.0018
8/18/2021		<0.001		<0.001	<0.001	0.0013			
2/7/2022									
2/8/2022	<0.001						<0.001	<0.001	0.0023
2/9/2022		<0.001		<0.001	<0.001	0.0012			
8/30/2022	0.0019				<0.001		<0.001	<0.001	0.0028
8/31/2022		0.0011				0.0013			
9/1/2022				<0.001					

Prediction Limit

Constituent: Vanadium (mg/L) Analysis Run 11/5/2022 4:02 PM View: PLs Interwell State
Plant McIntosh Client: Southern Company Data: McIntosh LF 3 CCR

	GWC-2	GWA-2B (bg)	GWA-1B (bg)
10/5/1999	0.015 (o)		
11/12/1999	<0.001		
12/29/1999	<0.001		
2/17/2000	<0.001		
9/13/2000	<0.001		
11/10/2000	<0.001		
1/4/2001	<0.001		
12/11/2001	<0.001		
4/4/2002	<0.001		
12/6/2002	<0.001		
6/28/2003	<0.001		
12/13/2003	<0.001		
5/28/2004	<0.001		
12/10/2004	<0.001		
6/24/2005	<0.001		
12/13/2005	<0.001		
7/12/2006	<0.001		
12/1/2006	<0.001		
6/21/2007	<0.001		
12/15/2007	<0.001		
6/21/2008			
6/22/2008	<0.001		
12/6/2008	<0.001		
12/7/2008			
7/10/2009			
7/11/2009	<0.001		
12/22/2009			
12/23/2009	<0.001		
6/23/2010	<0.001		
6/24/2010			
1/8/2011	<0.001		
1/9/2011			
7/10/2011	<0.001		
7/11/2011			
1/19/2012			
1/20/2012	<0.001		
7/12/2012	<0.001		
7/13/2012			
1/21/2013	<0.001		
7/19/2013			
7/20/2013	<0.001		
1/16/2014			
1/17/2014	<0.001		
7/11/2014			
7/12/2014	<0.001		
1/15/2015	<0.001		
1/16/2015			
7/15/2015	<0.001		
1/16/2016			
1/17/2016	<0.001		
6/22/2016	0.0019 (J)		
6/23/2016			

Prediction Limit

Constituent: Vanadium (mg/L) Analysis Run 11/5/2022 4:02 PM View: PLs Interwell State
Plant McIntosh Client: Southern Company Data: McIntosh LF 3 CCR

	GWC-2	GWA-2B (bg)	GWA-1B (bg)
1/19/2017			
1/23/2017			
1/24/2017	0.0062		
1/25/2017			
1/27/2017			
2/28/2017			
7/17/2017			
7/18/2017			
7/19/2017	0.0015 (J)		
7/20/2017			
1/8/2018			
1/9/2018	<0.001		
1/10/2018			
7/10/2018	<0.001		
7/11/2018			
1/30/2019		<0.001	
1/31/2019	<0.001		
3/27/2019			
3/28/2019	<0.001	<0.001	
9/11/2019			
9/12/2019	0.0018	0.0021	
3/10/2020		<0.001	
3/11/2020			
3/31/2020	<0.001		
4/2/2020			
9/21/2020			
9/22/2020	<0.001	<0.001	
3/23/2021	<0.001	<0.001	<0.001
3/24/2021			
8/17/2021		<0.001	<0.001
8/18/2021	<0.001		
2/7/2022		<0.001	
2/8/2022	<0.001		<0.001
2/9/2022			
8/30/2022	<0.001	0.0016	0.0019
8/31/2022			
9/1/2022			

Prediction Limit

Constituent: Zinc (mg/L) Analysis Run 11/5/2022 4:03 PM View: PLs Interwell State

Plant McIntosh Client: Southern Company Data: McIntosh LF 3 CCR

	GWA-1A (bg)	GWA-4 (bg)	GWA-5 (bg)	GWC-5	GWC-1	GWA-7 (bg)	GWA-3A (bg)	GWC-2	GWC-4A
10/5/1999	0.043	0.039	<0.005	0.037	<0.005	0.091	0.023	0.028	<0.005
11/12/1999	0.035	0.025	<0.005	0.022	<0.005	0.057	<0.005	<0.005	<0.005
12/29/1999	0.058	0.023	<0.005	0.036	<0.005	0.047	<0.005	0.022	<0.005
2/17/2000	0.051	<0.005	<0.005	<0.005	<0.005	0.048	<0.005	0.021	<0.005
9/13/2000	<0.005	0.035	0.021	0.027	<0.005	0.062	<0.005	<0.005	0.036 (o)
11/10/2000	<0.005	0.023	<0.005	<0.005	<0.005	0.11	<0.005	<0.005	<0.005
1/4/2001	<0.005	0.027	<0.005	<0.005	<0.005	0.39 (o)	<0.005	<0.005	<0.005
12/11/2001	<0.005	0.036	<0.005	<0.005	<0.005	0.096	<0.005	<0.005	<0.005
4/4/2002	<0.005	0.038	<0.005	0.028	<0.005	<0.005	<0.005	0.069 (o)	<0.005
12/6/2002	<0.005	0.033	0.06	0.028	0.011	0.084	<0.005	0.012	0.012
6/28/2003	<0.005	0.018	0.19 (o)	0.012	<0.005	0.026	<0.005	0.011	<0.005
12/13/2003	<0.005	0.013	0.067	0.026	<0.005	0.054	<0.005	<0.005	<0.005
5/28/2004	0.034	<0.005	0.068	0.018	<0.005	<0.005	<0.005	<0.005	<0.005
12/10/2004	0.021	<0.005	0.039	0.029	<0.005	<0.005	<0.005	0.027	<0.005
6/24/2005	<0.005	<0.005	0.033	0.016	<0.005	<0.005	<0.005	<0.005	<0.005
12/13/2005	0.013	0.011	0.039	0.017	0.015	<0.005	<0.005	0.011	<0.005
7/12/2006	0.074	0.0055	0.022	0.013	0.0042	0.15 (o)	0.0047	0.0064	<0.005
12/1/2006	0.048	0.0052	0.018	0.03	0.0047	0.047	0.065	0.0077	0.098 (o)
6/21/2007	0.067	0.0062	0.058	0.017	0.0052	0.003	0.008	0.0082	0.0043
12/15/2007	0.053	0.0055	0.0072	0.013	0.0046	<0.005	0.0043	0.0063	0.0057
6/21/2008		0.011		0.016	0.0067	0.0034			0.0064
6/22/2008	0.024		0.011				0.0062	0.0074	
12/6/2008		0.008	0.011		0.0054	0.041	0.051	0.0066	0.0052
12/7/2008	0.0087			0.05					
7/10/2009						0.0038	0.0043		
7/11/2009	0.045	0.011	0.013	0.013	0.0038			0.0054	0.0049
12/22/2009			0.013						
12/23/2009	0.054	0.0051		0.01	0.0029	<0.005	0.0039	0.0046	0.005
6/23/2010		0.0031	0.0084	0.011	<0.005	<0.005	<0.005	0.0041	0.0044
6/24/2010	0.0065								
1/8/2011		0.0035	0.0089	0.012	0.0032	0.0031	0.0037	0.019	0.0036
1/9/2011	0.022								
7/10/2011		0.0081	0.0084	0.0096	0.004	<0.005	0.0047	0.005	0.0046
7/11/2011	0.0032								
1/19/2012		0.017				0.0035	0.0045		
1/20/2012	0.0089		0.0094	0.014	0.0067			0.007	0.0045
7/12/2012		0.01	0.0098	0.01	0.0036	<0.005	0.0033	0.0045	0.0041
7/13/2012	0.012								
1/21/2013	0.024	0.013	0.007	0.011	0.0031	<0.005	0.0038	0.0045	0.0038
7/19/2013						<0.005			
7/20/2013	0.0068	<0.005	0.0074	0.0089	<0.005		0.004	<0.005	0.0047
1/16/2014						0.0033			
1/17/2014	0.02	0.0066	0.0092	0.0098	0.0031		0.005	0.0075	0.0051
7/11/2014				0.014					0.0066
7/12/2014	0.0055	0.0054	0.013		<0.0025 (J)	0.0028	0.004	0.0051	
1/15/2015		0.0076				0.0025	0.0056	0.0054	
1/16/2015	0.0043		0.0081	0.011	0.002 (J)				0.0046
7/15/2015	0.0026	0.0053	0.009	0.012	0.0015 (J)	0.0021 (J)	0.0034	0.0049	0.0036
1/16/2016	0.0035	0.0048	0.007	0.014	0.0015 (J)	0.0017 (J)	0.0038		
1/17/2016								0.0051	0.004
6/22/2016	0.00805 (JD)	0.0038 (J)	0.0091 (J)		<0.005	0.0087 (J)	0.00575 (JD)	0.0087 (J)	0.0053 (J)
6/23/2016				0.0116					

Prediction Limit

Constituent: Zinc (mg/L) Analysis Run 11/5/2022 4:03 PM View: PLs Interwell State
 Plant McIntosh Client: Southern Company Data: McIntosh LF 3 CCR

	GWA-1A (bg)	GWA-4 (bg)	GWA-5 (bg)	GWC-5	GWC-1	GWA-7 (bg)	GWA-3A (bg)	GWC-2	GWC-4A
1/19/2017		<0.005	0.0065 (J)			<0.005	<0.005		
1/23/2017					<0.005				
1/24/2017				0.01 (J)				0.0071 (J)	
1/25/2017									<0.005
1/27/2017									
2/28/2017	<0.005								
7/17/2017	<0.005								
7/18/2017		<0.005					<0.005		
7/19/2017			0.0099 (J)		<0.005	<0.005		<0.005	
7/20/2017				0.016 (J)					<0.005
1/8/2018	<0.005								
1/9/2018		0.0072 (J)	0.014 (J)		<0.005		<0.005	0.0079 (J)	<0.005
1/10/2018				0.012 (J)		<0.005			
7/10/2018	<0.005	<0.005	0.0089 (J)			<0.005	<0.005	0.0067 (J)	<0.005
7/11/2018				0.015 (J)	<0.005				
1/30/2019	<0.005	0.006 (J)	0.0057 (J)		<0.005	0.014 (J)	0.0058 (J)		0.0042 (J)
1/31/2019				0.033				<0.005	
3/27/2019	<0.005		0.01 (J)						
3/28/2019		<0.005		0.032	<0.005	<0.005	<0.005	0.0069 (J)	<0.005
9/11/2019	0.0062								
9/12/2019		0.0073	0.0074	0.033	0.0039 (J)	0.0059	0.0081	0.0089	0.0093
3/10/2020	<0.005	0.0079	0.0071				0.0079		
3/11/2020					<0.005	<0.005			
3/31/2020				0.025				0.0065	<0.005
4/2/2020							0.011		
9/21/2020	<0.005	0.013					0.0055		
9/22/2020			0.039	0.037	<0.005			0.029	0.017
3/23/2021	<0.005						0.0092	0.0085	
3/24/2021		0.0058	0.0085	0.034	<0.005				0.01
8/17/2021	0.048	0.029	0.024				0.014		
8/18/2021				0.035	0.11			0.0081	0.012
2/7/2022									
2/8/2022	0.0031 (J)	0.007	0.007				0.013	0.0078	
2/9/2022				0.03	<0.005				0.0039 (J)
8/30/2022	<0.005	0.01	0.013				0.012	0.012	0.0046 (J)
8/31/2022					<0.005				
9/1/2022				0.035					

Prediction Limit

Constituent: Zinc (mg/L) Analysis Run 11/5/2022 4:03 PM View: PLs Interwell State
Plant McIntosh Client: Southern Company Data: McIntosh LF 3 CCR

	GWC-6	GWA-2B (bg)	GWA-1B (bg)
10/5/1999	0.063 (o)		
11/12/1999	0.025		
12/29/1999	0.024		
2/17/2000	<0.005		
9/13/2000	0.061 (o)		
11/10/2000	0.061 (o)		
1/4/2001	0.05 (o)		
12/11/2001	<0.005		
4/4/2002	<0.005		
12/6/2002	0.013		
6/28/2003	0.014		
12/13/2003	<0.005		
5/28/2004	<0.005		
12/10/2004	<0.005		
6/24/2005	<0.005		
12/13/2005	<0.005		
7/12/2006	0.0057		
12/1/2006	0.0068		
6/21/2007	0.016		
12/15/2007	0.012		
6/21/2008			
6/22/2008	0.014		
12/6/2008			
12/7/2008	0.044 (o)		
7/10/2009			
7/11/2009	0.0062		
12/22/2009			
12/23/2009	0.007		
6/23/2010			
6/24/2010	0.0049		
1/8/2011			
1/9/2011			
7/10/2011			
7/11/2011	0.0052		
1/19/2012			
1/20/2012	0.0081		
7/12/2012			
7/13/2012	0.004		
1/21/2013	0.0093		
7/19/2013			
7/20/2013	0.0054		
1/16/2014			
1/17/2014	0.0054		
7/11/2014			
7/12/2014	0.0057		
1/15/2015			
1/16/2015	0.0084		
7/15/2015	0.0046		
1/16/2016	0.0051		
1/17/2016			
6/22/2016			
6/23/2016	0.0041 (J)		

Prediction Limit

Constituent: Zinc (mg/L) Analysis Run 11/5/2022 4:03 PM View: PLs Interwell State
Plant McIntosh Client: Southern Company Data: McIntosh LF 3 CCR

	GWC-6	GWA-2B (bg)	GWA-1B (bg)
1/19/2017			
1/23/2017			
1/24/2017			
1/25/2017			
1/27/2017	<0.005		
2/28/2017			
7/17/2017			
7/18/2017			
7/19/2017			
7/20/2017	<0.005		
1/8/2018			
1/9/2018			
1/10/2018	<0.005		
7/10/2018			
7/11/2018	<0.005		
1/30/2019		0.013 (J)	
1/31/2019	<0.005		
3/27/2019			
3/28/2019	0.0084 (J)	0.014 (J)	
9/11/2019			
9/12/2019	0.011	0.0075	
3/10/2020		0.0061	
3/11/2020	0.0047 (J)		
3/31/2020			
4/2/2020			
9/21/2020			
9/22/2020	0.0053	0.0066	
3/23/2021		0.0066	0.0098
3/24/2021	0.0043 (J)		
8/17/2021		0.026	0.024
8/18/2021	0.12		
2/7/2022		0.0046 (J)	
2/8/2022			0.0048 (J)
2/9/2022	0.0087		
8/30/2022		0.014	0.003 (J)
8/31/2022	0.0073		
9/1/2022			

FIGURE F.

Trend Tests (Appendix I Prediction Limit Exceedance) - All Results

Plant McIntosh Client: Southern Company Data: McIntosh LF 3 CCR Printed 11/5/2022, 4:13 PM

<u>Constituent</u>	<u>Well</u>	<u>Slope</u>	<u>Calc.</u>	<u>Critical</u>	<u>Sig.</u>	<u>N</u>	<u>%NDs</u>	<u>Normality</u>	<u>Xform</u>	<u>Alpha</u>	<u>Method</u>
Barium (mg/L)	GWA-1A (bg)	-0.002091	-4.785	-2.58	Yes	53	0	n/a	n/a	0.01	NP
Barium (mg/L)	GWA-2B (bg)	-0.0006992	-9	-30	No	10	0	n/a	n/a	0.01	NP
Barium (mg/L)	GWA-3A (bg)	0.00149	7.317	2.58	Yes	55	0	n/a	n/a	0.01	NP
Barium (mg/L)	GWA-4 (bg)	0.0009886	6.411	2.58	Yes	54	0	n/a	n/a	0.01	NP
Barium (mg/L)	GWA-5 (bg)	0.0006216	0.9536	2.58	No	53	0	n/a	n/a	0.01	NP
Barium (mg/L)	GWA-7A (bg)	-0.01546	-26	-30	No	10	0	n/a	n/a	0.01	NP
Barium (mg/L)	GWC-5	0.01113	2.842	2.58	Yes	53	0	n/a	n/a	0.01	NP

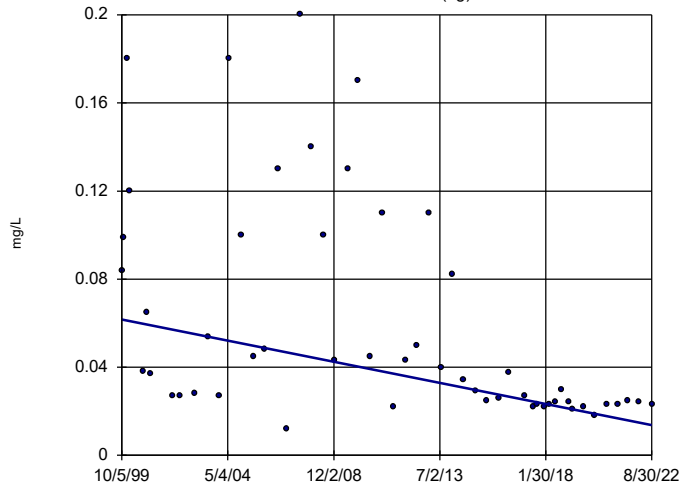
Trend Tests (Appendix I Prediction Limit Exceedance) - Significant Results

Plant McIntosh Client: Southern Company Data: McIntosh LF 3 CCR Printed 11/5/2022, 4:13 PM

<u>Constituent</u>	<u>Well</u>	<u>Slope</u>	<u>Calc.</u>	<u>Critical</u>	<u>Sig.</u>	<u>N</u>	<u>%NDs</u>	<u>Normality</u>	<u>Xform</u>	<u>Alpha</u>	<u>Method</u>
Barium (mg/L)	GWA-1A (bg)	-0.002091	-4.785	-2.58	Yes	53	0	n/a	n/a	0.01	NP
Barium (mg/L)	GWA-3A (bg)	0.00149	7.317	2.58	Yes	55	0	n/a	n/a	0.01	NP
Barium (mg/L)	GWA-4 (bg)	0.0009886	6.411	2.58	Yes	54	0	n/a	n/a	0.01	NP
Barium (mg/L)	GWC-5	0.01113	2.842	2.58	Yes	53	0	n/a	n/a	0.01	NP

Sen's Slope Estimator

GWA-1A (bg)

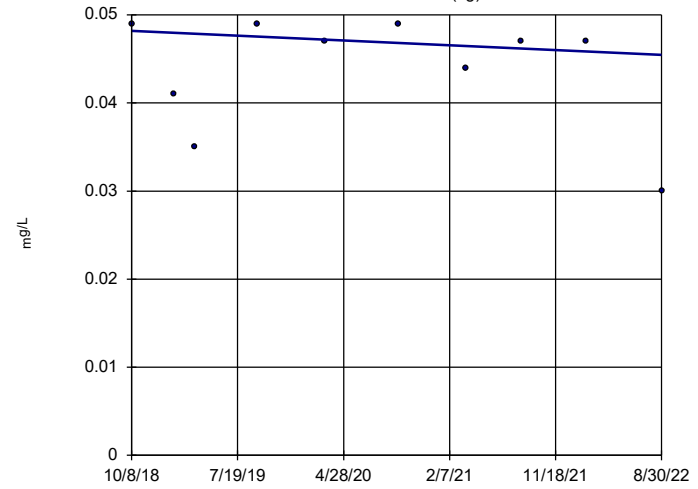


n = 53
 Slope = -0.002091 units per year.
 Mann-Kendall normal approx. = -4.785
 critical = -2.58
 Decreasing trend significant at 99% confidence level ($\alpha = 0.005$ per tail).

Constituent: Barium Analysis Run 11/5/2022 4:12 PM View: Trend Tests - App I PL Exceedance
 Plant McIntosh Client: Southern Company Data: McIntosh LF 3 CCR

Sen's Slope Estimator

GWA-2B (bg)

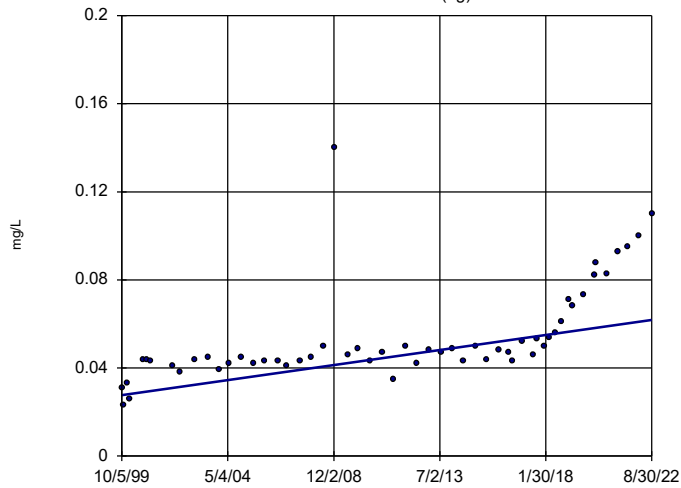


n = 10
 Slope = -0.0006992 units per year.
 Mann-Kendall statistic = -9
 critical = -30
 Trend not significant at 99% confidence level ($\alpha = 0.005$ per tail).

Constituent: Barium Analysis Run 11/5/2022 4:12 PM View: Trend Tests - App I PL Exceedance
 Plant McIntosh Client: Southern Company Data: McIntosh LF 3 CCR

Sen's Slope Estimator

GWA-3A (bg)

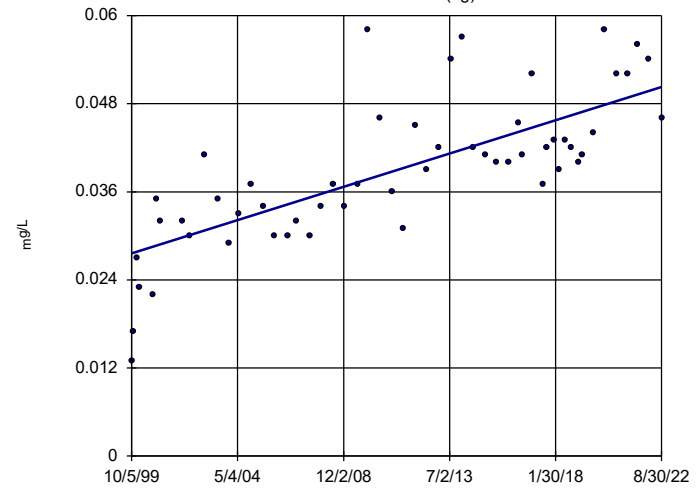


n = 55
 Slope = 0.00149 units per year.
 Mann-Kendall normal approx. = 7.317
 critical = 2.58
 Increasing trend significant at 99% confidence level ($\alpha = 0.005$ per tail).

Constituent: Barium Analysis Run 11/5/2022 4:12 PM View: Trend Tests - App I PL Exceedance
 Plant McIntosh Client: Southern Company Data: McIntosh LF 3 CCR

Sen's Slope Estimator

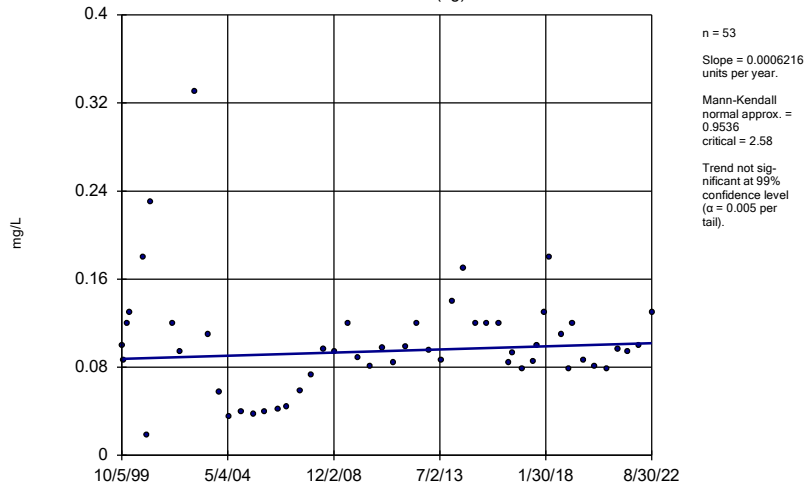
GWA-4 (bg)



n = 54
 Slope = 0.0009886 units per year.
 Mann-Kendall normal approx. = 6.411
 critical = 2.58
 Increasing trend significant at 99% confidence level ($\alpha = 0.005$ per tail).

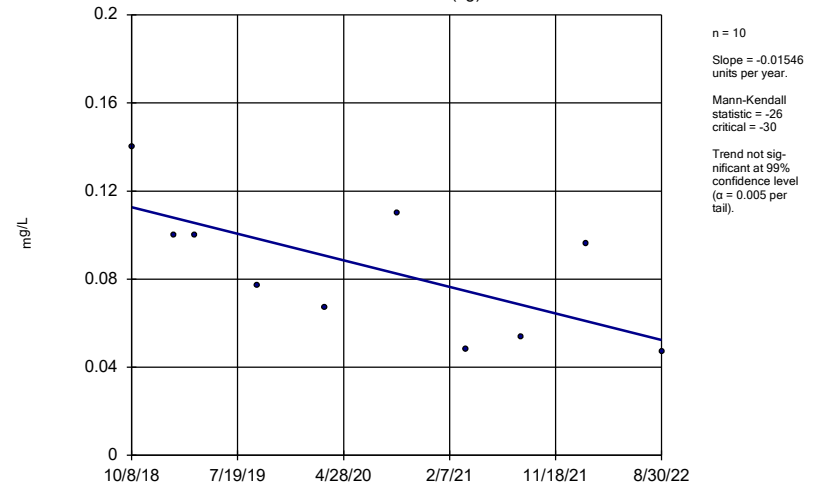
Constituent: Barium Analysis Run 11/5/2022 4:12 PM View: Trend Tests - App I PL Exceedance
 Plant McIntosh Client: Southern Company Data: McIntosh LF 3 CCR

Sen's Slope Estimator
GWA-5 (bg)



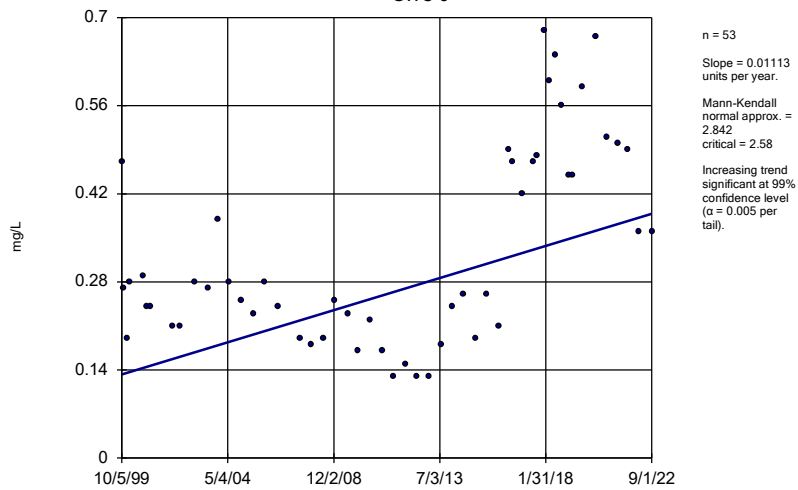
Constituent: Barium Analysis Run 11/5/2022 4:12 PM View: Trend Tests - App I PL Exceedance
Plant McIntosh Client: Southern Company Data: McIntosh LF 3 CCR

Sen's Slope Estimator
GWA-7A (bg)



Constituent: Barium Analysis Run 11/5/2022 4:12 PM View: Trend Tests - App I PL Exceedance
Plant McIntosh Client: Southern Company Data: McIntosh LF 3 CCR

Sen's Slope Estimator
GWC-5

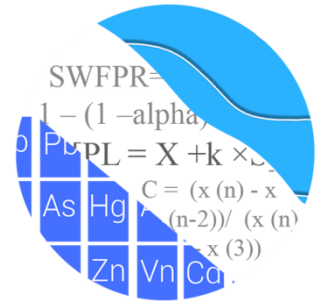


Constituent: Barium Analysis Run 11/5/2022 4:12 PM View: Trend Tests - App I PL Exceedance
Plant McIntosh Client: Southern Company Data: McIntosh LF 3 CCR

GROUNDWATER STATS CONSULTING

July 31, 2023

Southern Company Services
Attn: Ms. Kristen Jurinko
241 Ralph McGill Blvd NE, Bin 10160
Atlanta, Georgia 30308



Re: Plant McIntosh Landfill #3
Statistical Analysis – January/February 2023 Semi-Annual Sample Event

Dear Ms. Jurinko,

Groundwater Stats Consulting, formerly the statistical consulting division of Sanitas Technologies, is pleased to provide the statistical analysis of the January/February 2023 semi-annual sample event for Georgia Power Company’s Plant McIntosh Landfill #3. The analysis complies with the federal rule for the Disposal of Coal Combustion Residuals (CCR) from Electric Utilities (CCR Rule, 2015), the Georgia Environmental Protection Division (EPD) Rules for Solid Waste Management Chapter 391-3-4-.10 and follows the United States Environmental Protection Agency (USEPA) Unified Guidance (2009).

Sampling at the majority of wells began for the CCR program in 2016, and for the state program in accordance with the Georgia EPD’s Solid Waste Permit in 1999. Semi-annual sampling for select constituents has been performed for several years in accordance with the Georgia Department of Natural Resources, Environmental Protection Division groundwater monitoring regulations; and all available data from upgradient wells are screened in this report.

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

- **Upgradient wells:** GWA-1B, GWA-2B, GWA-3A, GWA-4, GWA-5, and GWA-7A
- **Downgradient wells:** GWC-1A, GWC-2, GWC-4A, GWC-5A, and GWC-6A

Previously, the monitoring well network included upgradient well GWA-1A and downgradient wells GWC-1, GWC-5, and GWC-6. However, these wells were recently

abandoned. While data from upgradient well GWA-1A continues to be included in construction of interwell prediction limits since the data represents historical groundwater quality upgradient of the facility, downgradient wells GWC-1, GWC-5, and GWC-6 are not included in the analysis.

A minimum of 8 samples have been collected at each of the existing wells with few exceptions. New upgradient well GWA-1B and new downgradient wells GWC-1A, GWC-5A, and GWC-6A currently have been sampled a total of 5 times for Appendix I and III constituents. Therefore, data from downgradient wells GWC-1A, GWC-5A, and GWC-6A are included on time series and box plots and will be statistically analyzed when a minimum of 8 background sample are available. Since upgradient well GWA-1B has a minimum of four samples, data from this well are incorporated into the interwell prediction limits, which are constructed from pooled upgradient well data.

Data were sent electronically to Groundwater Stats Consulting, and the statistical analysis was reviewed by Andrew Collins, Project Manager of Groundwater Stats Consulting. The analysis is prepared according to the recommended interwell statistical methodology as presented in the USEPA Unified Guidance. The original screening was conducted in the Fall 2017 by Dr. Kirk Cameron, PhD Statistician with MacStat Consulting, primary author of the USEPA Unified Guidance. During the initial screening both intrawell and interwell statistical methods were recommended. However, further studies conducted by Southern Company Services of waste placement with respect to when groundwater monitoring began suggested interwell methods for all constituents should be used as they will be the primary statistical method.

The following constituents were evaluated in this report:

- **CCR Appendix III** - boron, calcium, chloride, fluoride, pH, sulfate, and TDS
- **Georgia EPD Appendix I** - barium, beryllium, chromium, cobalt, copper, lead, vanadium, and zinc

Note that when there are no detections present in downgradient wells for a given constituent, statistical analyses are not required. A list of downgradient Appendix I well/constituent pairs with 100% non-detects follows this letter.

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.

Time series plots for reported CCR Appendix III and Georgia EPD Appendix I constituents are provided for all wells (Figure A). Additionally, a separate section of box plots is

included for all constituents at upgradient and downgradient wells (Figure B). The time series plots are used to initially screen for suspected outliers and trends, while the box plots provide visual representation of variation within individual wells and between all wells.

Data at all wells were evaluated during the initial background screening in 2019, as described below, for the following: 1) outliers; 2) trends; 3) most appropriate statistical method for constituents based on site characteristics of groundwater data upgradient of the facility; and 4) eligibility of downgradient wells when intrawell statistical methods are recommended. Because groundwater sampling began after waste was placed, interwell prediction limits were determined to be the most appropriate statistical method. Power curves were provided during previous analyses and demonstrated that the interwell methods for all constituents comply with the USEPA Unified Guidance recommendations as discussed below. The EPA suggests the selected statistical method should provide at least 55% power at 3 standard deviations or at least 80% power at 4 standard deviations. Power curves were based on the following statistical methods:

CCR Appendix III Constituents:

- Semi-Annual Sampling
- Interwell Prediction Limits with 1-of-2 resample plan
- # Constituents: 7
- # Downgradient wells: 5

Georgia EPD Appendix I Constituents:

- Semi-Annual Sampling
- Interwell Prediction Limits with 1-of-2 resample plan
- # Constituents: 8
- # Downgradient wells: 5

Summary of Statistical Methods – All Constituents

Based on the earlier evaluation discussed above, the following methods were selected:

- Interwell prediction limits, combined with a 1-of-2 resample plan for boron, calcium, chloride, fluoride, pH, sulfate, and TDS
- Interwell prediction limits, combined with a 1-of-2 resample plan for barium, beryllium, chromium, cobalt, copper, lead, vanadium, and zinc

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. 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. Non-detects are handled as follows:

- No statistical analyses are required on wells and analytes containing 100% non-detects (USEPA Unified Guidance, 2009, Chapter 6).
- When data contain <15% non-detects, simple substitution of one-half the reporting limit is utilized in the statistical analysis. The reporting limit utilized for non-detects is the most recent practical quantification limit (PQL) as reported by the laboratory.
- When data contain between 15-50% non-detects, the Kaplan-Meier non-detect adjustment is applied to the background data. This technique adjusts the mean and standard deviation of the historical concentrations to account for concentrations below the reporting limit.
- Nonparametric prediction limits are used on data containing greater than 50% non-detects.

Natural systems continuously evolve due to physical changes made to the environment. Examples include capping a landfill, paving areas near a well, or lining a drainage channel to prevent erosion. Periodic updating of background statistical limits will be necessary to accommodate these types of changes. In the interwell case, newer data are included during each sample event after careful screening for new outliers in upgradient wells. While this step was not necessary, in some cases the earlier portion of data may require deselection prior to construction of limits in order 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, and a summary of any truncated records will be provided.

Summary of Initial Background Screening (2019) – All Constituents

Outlier Analysis

The original background screening for the CCR and Georgia EPD state programs was conducted in 2019 and the results were submitted at that time. Several values were identified and flagged as outliers in both upgradient and downgradient wells for all constituents. Suspected outliers at upgradient wells for all constituents were formally

tested using Tukey's box plot method and, when confirmed, flagged in the computer database with "o" and deselected prior to construction of statistical limits.

When suspected outliers were evaluated using the Tukey box plot method, several outliers were identified. As a general rule, when the most recent values are identified as outliers, values are not flagged in the database (except in cases where statistical limits would be elevated) as the concentrations may represent a possible trend. If future values do not remain at similar concentrations, these values will be flagged as outliers and deselected. Note that for some well/constituent pairs, the test identified multiple outliers. However, in many of those cases, only the highest value(s) were flagged as outliers as the remaining values were similar to other measurements within the same well or neighboring wells. In other cases, the test did not identify an outlier; however, the highest measurement(s) did not appear to represent the population and were flagged as outliers in the database to establish limits that are conservative from a regulatory perspective.

During this analysis, only upgradient well data were re-evaluated through time series graphs for new outliers, or extreme values in background that would result in limits that are not conservative from a regulatory perspective, prior to construction of interwell prediction limits. Values flagged in downgradient wells from previous analyses remain flagged but have no impact on calculations of interwell prediction limits. No new outliers were flagged during this analysis. When any values are flagged in the database as outliers, they are plotted in a disconnected and lighter symbol on the time series graph. The accompanying data pages display the flagged value in a lighter font as well. A list of all flagged values follows this letter (Figure C).

Seasonality

No 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

Time series plots were also used to identify any visually trending patterns in upgradient well data. None were observed except for increasing low-level concentrations of chloride in upgradient well GWA-3A. However, because the more recent observations are similar to those historically reported in upgradient well GWA-5, no adjustments were required at this time.

In the future, if statistically significant increasing or decreasing trends are identified in the pooled upgradient well data, 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, earlier data are evaluated to determine whether earlier concentration levels are significantly different than current reported concentrations and will be deselected as necessary. A list of the adjusted background date ranges will be provided if this step is required in future analyses.

Statistical Analysis of Appendix III Parameters – January/February 2023

Interwell Prediction Limits

For all Appendix III parameters, interwell prediction limits combined with a 1-of-2 resample plan were constructed using all upgradient historical data through February 2023 (Figure D). Data from upgradient wells were screened for new outliers, and no new measurements were flagged. The reported measurement of 0.51 mg/L for fluoride in upgradient well GWA-1B during the August 2022 sample event was slightly higher than historical measurements but well below the Groundwater Protection Standard of 4.0 mg/L. This measurement was not identified as a statistical outlier; therefore, it was not flagged in the database. Interwell prediction limits pool upgradient well data to establish a background limit for an individual constituent. The most recent sample from each downgradient well is compared to the background limit to determine whether initial exceedances are present.

In the event of an initial exceedance of compliance well data, the 1-of-2 resample plan allows for collection of one additional sample to determine whether the initial exceedance is confirmed. If the resample falls within the statistical limit, the initial exceedance is considered to be a false positive result; therefore, no exceedance is noted, and no further action is necessary. If no resample is collected, the original result is considered a confirmed exceedance. Summary tables of the Appendix III prediction limits follow this letter. No exceedances were noted for Appendix III parameters; therefore, no further action was required.

Trend Test Evaluation

While this step was not required during this analysis, when data from downgradient well/constituent pairs are found to exceed their respective prediction limit, however, data will be further evaluated using the Sen's Slope/Mann Kendall trend test along with upgradient wells for the same constituents. 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.

Statistical Analysis of Georgia EPD Appendix I Parameters – January/February 2023

Interwell Prediction Limits

Interwell prediction limits, combined with a 1-of-2 resample plan, were constructed using all available data from upgradient wells through February 2023 (Figure E). As previously discussed, no statistical analyses were included for downgradient well/constituent pairs containing 100% non-detects. A summary table of the prediction limits along with the complete prediction limits results follows this letter. No exceedances were noted for any of the Appendix I parameters.

Trend Test Evaluation

As mentioned above, data from downgradient well/constituent pairs found to exceed their respective prediction limit are further evaluated using the Sen's Slope/Mann Kendall trend test along with upgradient wells for the same constituents. Upgradient wells are included in the trend analyses for all parameters found to exceed their prediction limit. Since no prediction limit exceedances were noted for any of the Appendix I constituents, no trend analyses were required.

Thank you for the opportunity to assist you in the statistical analysis of groundwater quality for McIntosh Landfill #3. If you have any questions or comments, please feel free to contact us.

For Groundwater Stats Consulting,



Kristina Rayner
Senior Statistician



Andrew Collins
Project Manager

100% Non-Detects: Appendix I

Analysis Run 2/28/2023 3:24 PM View: Pls App I

Plant McIntosh Client: Southern Company Data: McIntosh LF 3 CCR

Copper (mg/L)
GWC-4A

Lead (mg/L)
GWC-4A

Interwell Prediction Limits Appendix III - All Results (No Significant)

Plant McIntosh Client: Southern Company Data: McIntosh LF 3 CCR Printed 3/3/2023, 10:25 AM

Constituent	Well	Upper Lim	Lower Lim	Date	Observ.	Sig.	Bg N	Bg Mean	Std. Dev.	%NDs	ND Adj.	Transform	Alpha	Method
Boron (mg/L)	GWC-2	1.9	n/a	2/1/2023	0.091	No	99	n/a	n/a	40.4	n/a	n/a	0.0001978	NP Inter (normality) 1 of 2
Boron (mg/L)	GWC-4A	1.9	n/a	2/1/2023	0.08ND	No	99	n/a	n/a	40.4	n/a	n/a	0.0001978	NP Inter (normality) 1 of 2
Calcium (mg/L)	GWC-2	20	n/a	2/1/2023	1.3	No	98	n/a	n/a	0	n/a	n/a	0.0002022	NP Inter (normality) 1 of 2
Calcium (mg/L)	GWC-4A	20	n/a	2/1/2023	0.34J	No	98	n/a	n/a	0	n/a	n/a	0.0002022	NP Inter (normality) 1 of 2
Chloride (mg/L)	GWC-2	30	n/a	2/1/2023	4.8	No	99	n/a	n/a	0	n/a	n/a	0.0001978	NP Inter (normality) 1 of 2
Chloride (mg/L)	GWC-4A	30	n/a	2/1/2023	4.3	No	99	n/a	n/a	0	n/a	n/a	0.0001978	NP Inter (normality) 1 of 2
Fluoride (mg/L)	GWC-2	0.51	n/a	2/1/2023	0.1ND	No	99	n/a	n/a	57.58	n/a	n/a	0.0001978	NP Inter (NDs) 1 of 2
Fluoride (mg/L)	GWC-4A	0.51	n/a	2/1/2023	0.1ND	No	99	n/a	n/a	57.58	n/a	n/a	0.0001978	NP Inter (NDs) 1 of 2
pH (S.U.)	GWC-2	5.866	4.07	2/1/2023	4.83	No	179	2.22	0.1131	0	None	sqrt(x)	0.000752	Param Inter 1 of 2
pH (S.U.)	GWC-4A	5.866	4.07	2/1/2023	4.6	No	179	2.22	0.1131	0	None	sqrt(x)	0.000752	Param Inter 1 of 2
Sulfate (mg/L)	GWC-2	110	n/a	2/1/2023	1.3	No	99	n/a	n/a	29.29	n/a	n/a	0.0001978	NP Inter (normality) 1 of 2
Sulfate (mg/L)	GWC-4A	110	n/a	2/1/2023	1ND	No	99	n/a	n/a	29.29	n/a	n/a	0.0001978	NP Inter (normality) 1 of 2
Total Dissolved Solids (mg/L)	GWC-2	168.3	n/a	2/1/2023	36	No	98	7.787	2.868	2.041	None	sqrt(x)	0.001504	Param Inter 1 of 2
Total Dissolved Solids (mg/L)	GWC-4A	168.3	n/a	2/1/2023	18	No	98	7.787	2.868	2.041	None	sqrt(x)	0.001504	Param Inter 1 of 2

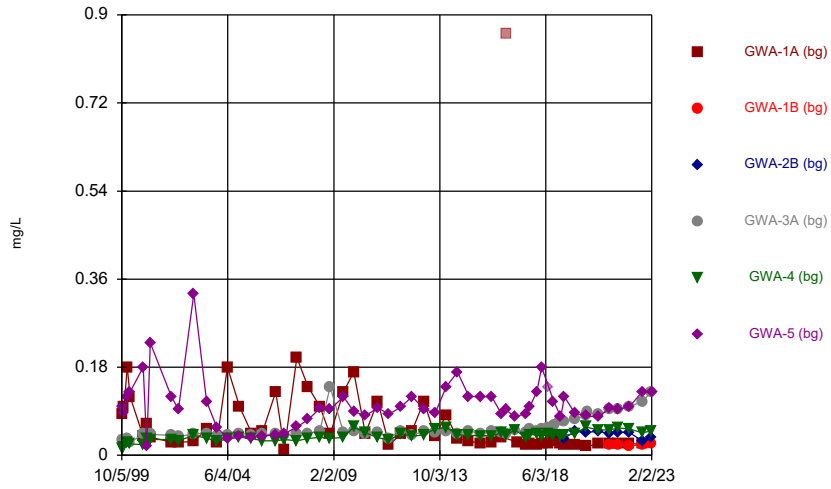
Interwell Prediction Limits Appendix I - All Results (No Significant)

Plant McIntosh Client: Southern Company Data: McIntosh LF 3 CCR Printed 3/3/2023, 10:27 AM

Constituent	Well	Upper Lim	Lower Lim	Date	Observ.	Sig.	Bg N	Bg Mean	Std. Dev.	%NDs	ND Adj.	Transform	Alpha	Method
Barium (mg/L)	GWC-2	0.33	n/a	2/1/2023	0.063	No	245	n/a	n/a	0	n/a	n/a	0.0000492	NP Inter (normality) 1 of 2
Barium (mg/L)	GWC-4A	0.33	n/a	2/1/2023	0.034	No	245	n/a	n/a	0	n/a	n/a	0.0000492	NP Inter (normality) 1 of 2
Beryllium (mg/L)	GWC-2	0.0036	n/a	2/1/2023	0.00024J	No	246	n/a	n/a	69.11	n/a	n/a	0.0000492	NP Inter (NDs) 1 of 2
Beryllium (mg/L)	GWC-4A	0.0036	n/a	2/1/2023	0.0025ND	No	246	n/a	n/a	69.11	n/a	n/a	0.0000492	NP Inter (NDs) 1 of 2
Chromium (mg/L)	GWC-2	0.032	n/a	2/1/2023	0.0037	No	244	n/a	n/a	50	n/a	n/a	0.0000492	NP Inter (normality) 1 of 2
Chromium (mg/L)	GWC-4A	0.032	n/a	2/1/2023	0.002ND	No	244	n/a	n/a	50	n/a	n/a	0.0000492	NP Inter (normality) 1 of 2
Cobalt (mg/L)	GWC-2	0.0072	n/a	2/1/2023	0.0013J	No	244	n/a	n/a	50	n/a	n/a	0.0000492	NP Inter (normality) 1 of 2
Cobalt (mg/L)	GWC-4A	0.0072	n/a	2/1/2023	0.00047J	No	244	n/a	n/a	50	n/a	n/a	0.0000492	NP Inter (normality) 1 of 2
Copper (mg/L)	GWC-2	0.008	n/a	2/1/2023	0.002ND	No	225	n/a	n/a	80	n/a	n/a	0.0000492	NP Inter (NDs) 1 of 2
Lead (mg/L)	GWC-2	0.016	n/a	2/1/2023	0.001ND	No	245	n/a	n/a	81.63	n/a	n/a	0.0000492	NP Inter (NDs) 1 of 2
Vanadium (mg/L)	GWC-2	0.055	n/a	2/1/2023	0.002ND	No	228	n/a	n/a	75	n/a	n/a	0.0000492	NP Inter (NDs) 1 of 2
Vanadium (mg/L)	GWC-4A	0.055	n/a	2/1/2023	0.002ND	No	228	n/a	n/a	75	n/a	n/a	0.0000492	NP Inter (NDs) 1 of 2
Zinc (mg/L)	GWC-2	0.074	n/a	2/1/2023	0.0062	No	228	n/a	n/a	25.44	n/a	n/a	0.0000492	NP Inter (normality) 1 of 2
Zinc (mg/L)	GWC-4A	0.074	n/a	2/1/2023	0.005ND	No	228	n/a	n/a	25.44	n/a	n/a	0.0000492	NP Inter (normality) 1 of 2

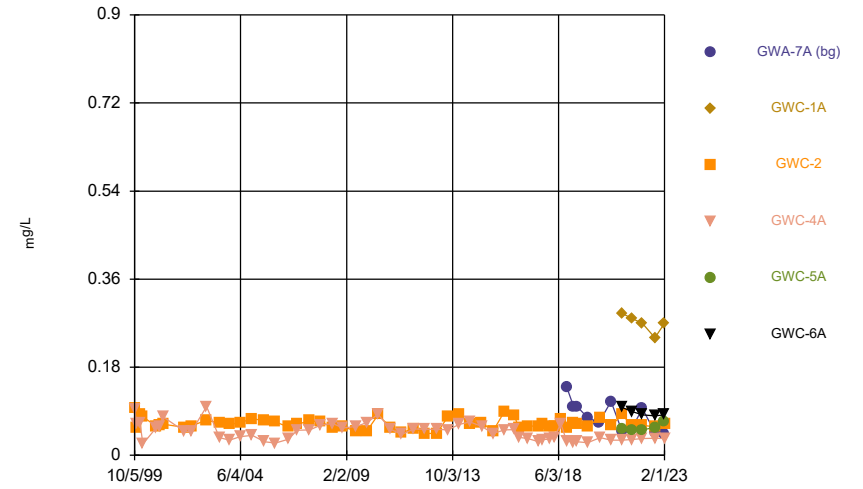
FIGURE A.

Time Series



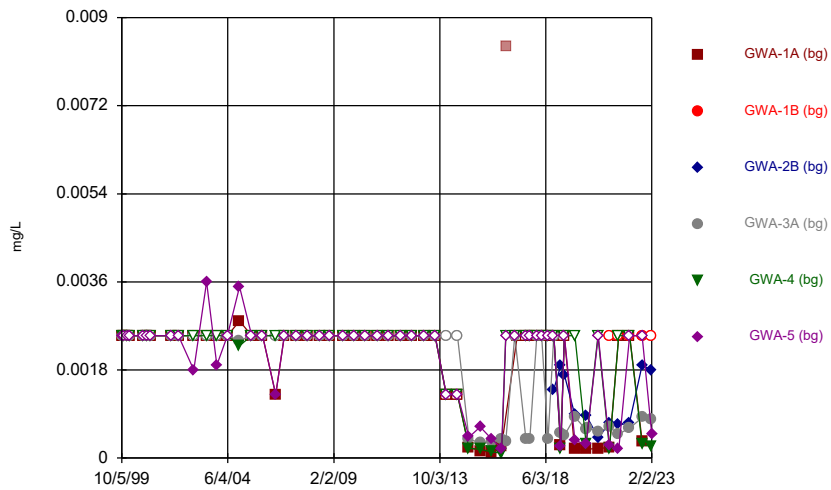
Constituent: Barium Analysis Run 3/3/2023 10:40 AM View: Descriptive
Plant McIntosh Client: Southern Company Data: McIntosh LF 3 CCR

Time Series



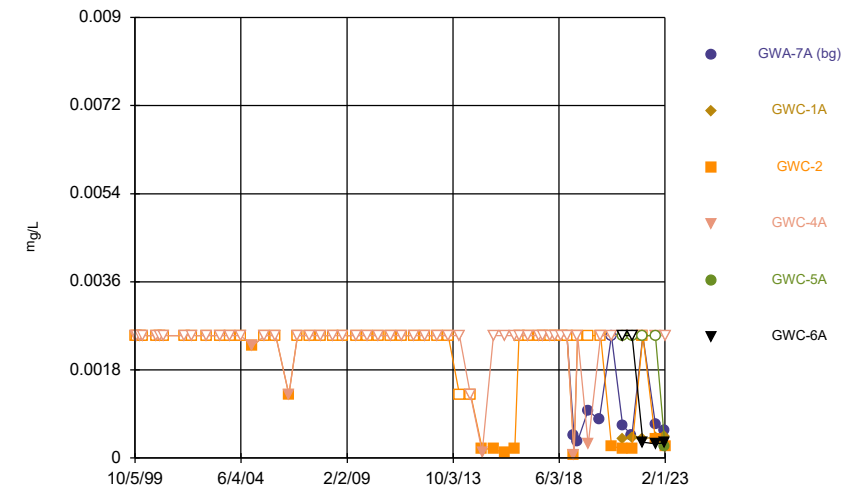
Constituent: Barium Analysis Run 3/3/2023 10:40 AM View: Descriptive
Plant McIntosh Client: Southern Company Data: McIntosh LF 3 CCR

Time Series



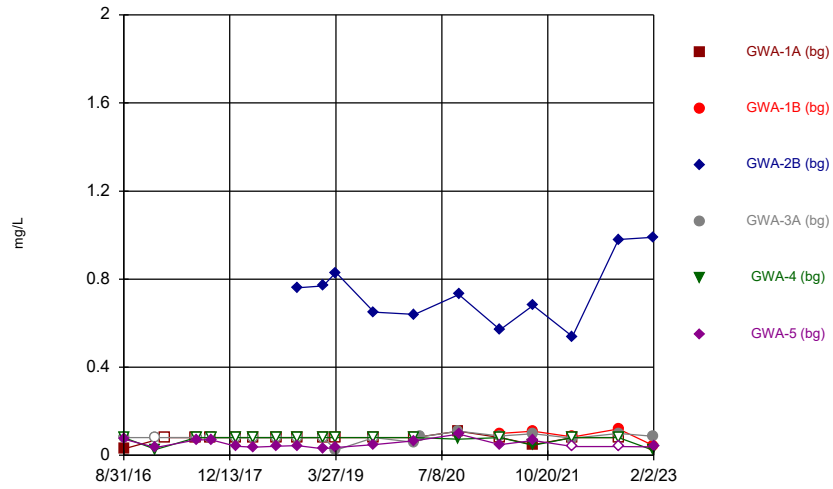
Constituent: Beryllium Analysis Run 3/3/2023 10:40 AM View: Descriptive
Plant McIntosh Client: Southern Company Data: McIntosh LF 3 CCR

Time Series



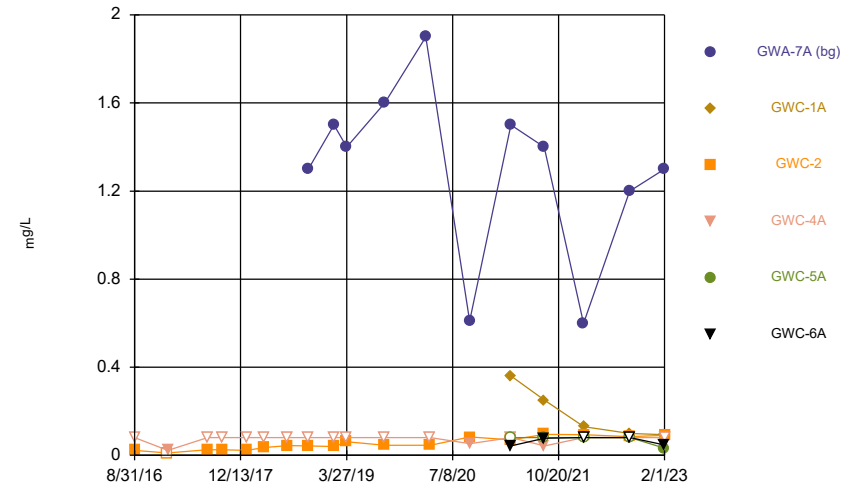
Constituent: Beryllium Analysis Run 3/3/2023 10:40 AM View: Descriptive
Plant McIntosh Client: Southern Company Data: McIntosh LF 3 CCR

Time Series



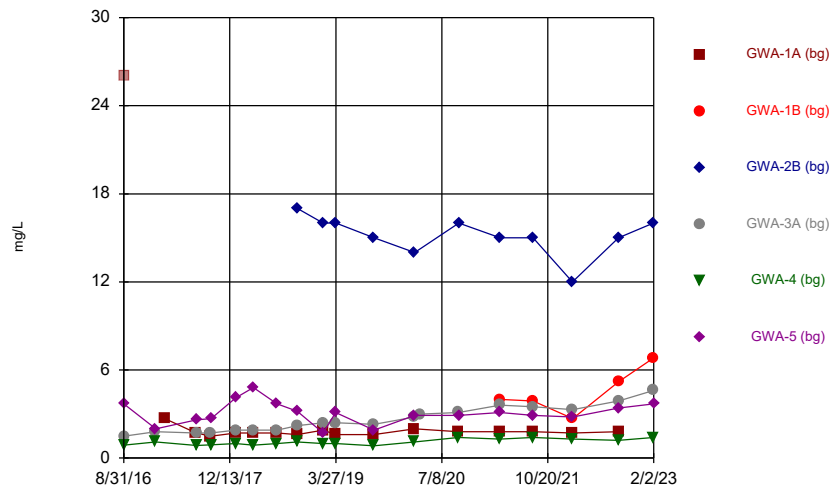
Constituent: Boron Analysis Run 3/3/2023 10:40 AM View: Descriptive
Plant McIntosh Client: Southern Company Data: McIntosh LF 3 CCR

Time Series



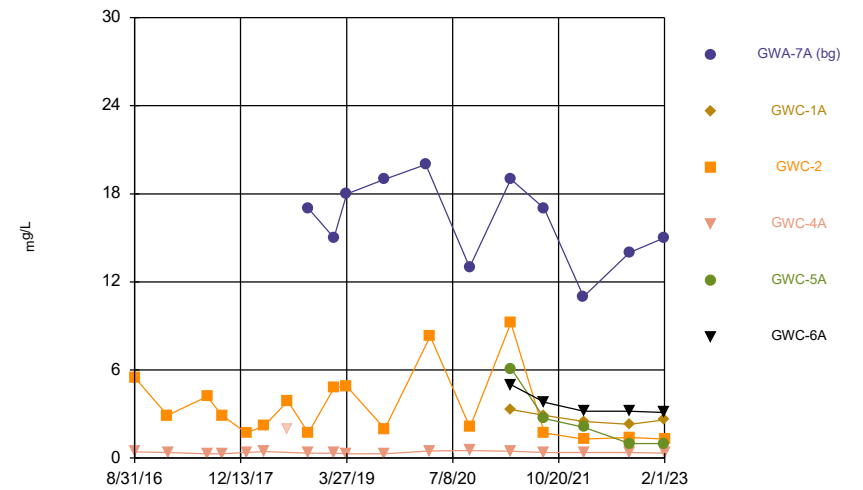
Constituent: Boron Analysis Run 3/3/2023 10:40 AM View: Descriptive
Plant McIntosh Client: Southern Company Data: McIntosh LF 3 CCR

Time Series



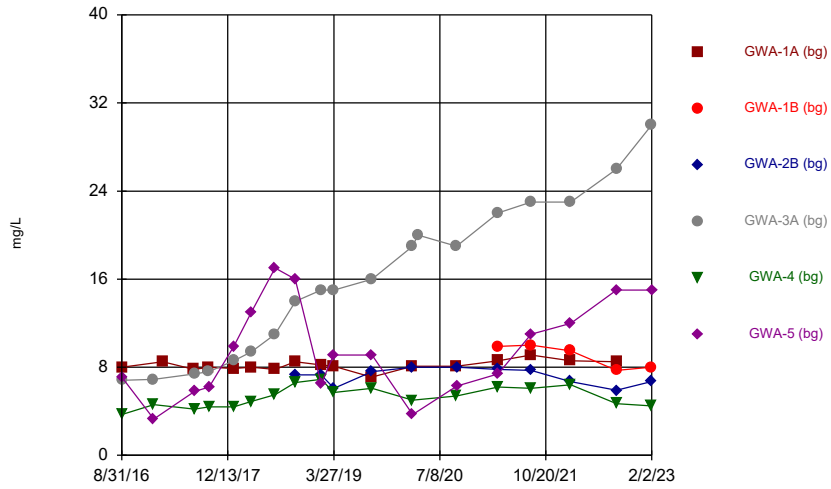
Constituent: Calcium Analysis Run 3/3/2023 10:40 AM View: Descriptive
Plant McIntosh Client: Southern Company Data: McIntosh LF 3 CCR

Time Series



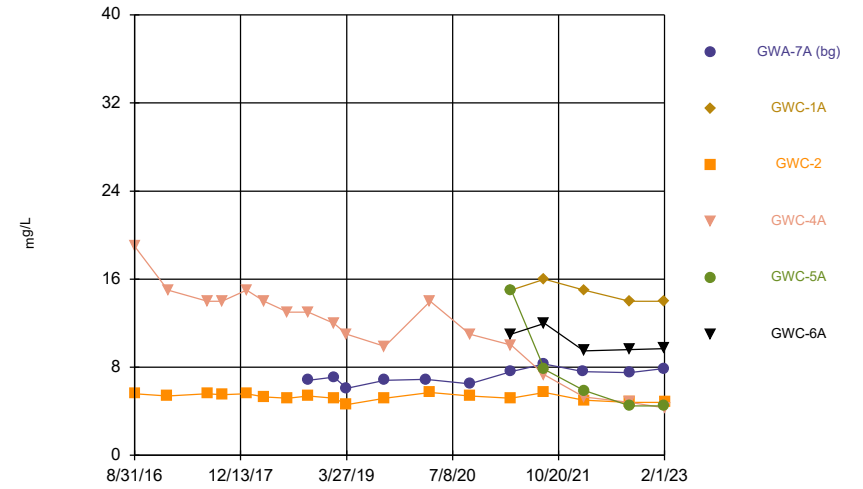
Constituent: Calcium Analysis Run 3/3/2023 10:40 AM View: Descriptive
Plant McIntosh Client: Southern Company Data: McIntosh LF 3 CCR

Time Series



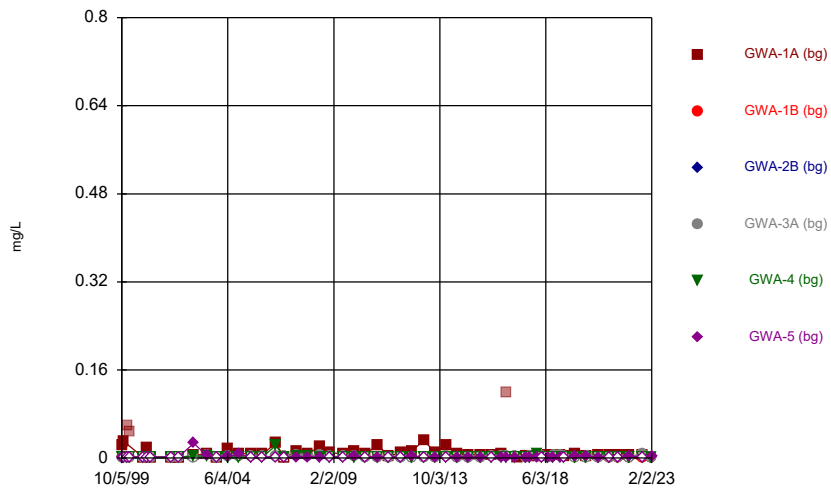
Constituent: Chloride Analysis Run 3/3/2023 10:40 AM View: Descriptive
Plant McIntosh Client: Southern Company Data: McIntosh LF 3 CCR

Time Series



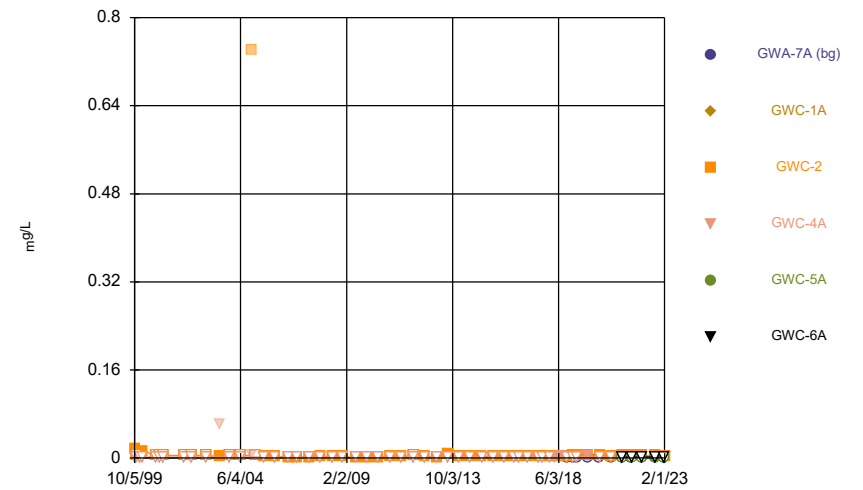
Constituent: Chloride Analysis Run 3/3/2023 10:40 AM View: Descriptive
Plant McIntosh Client: Southern Company Data: McIntosh LF 3 CCR

Time Series



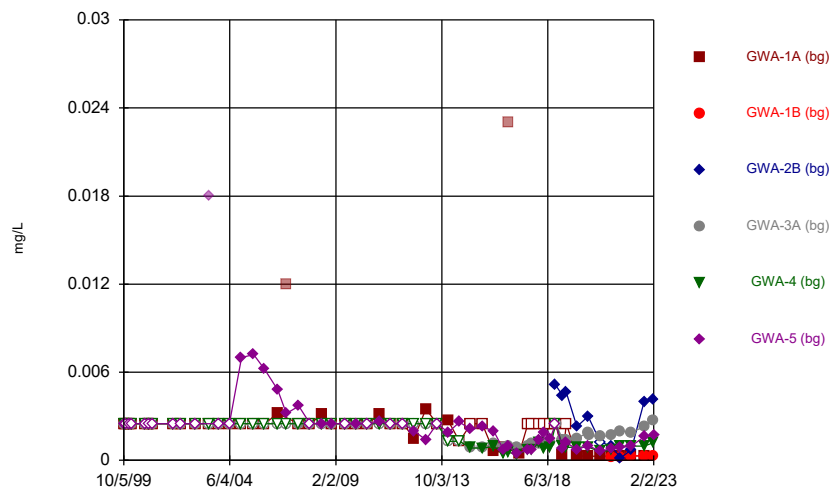
Constituent: Chromium Analysis Run 3/3/2023 10:40 AM View: Descriptive
Plant McIntosh Client: Southern Company Data: McIntosh LF 3 CCR

Time Series



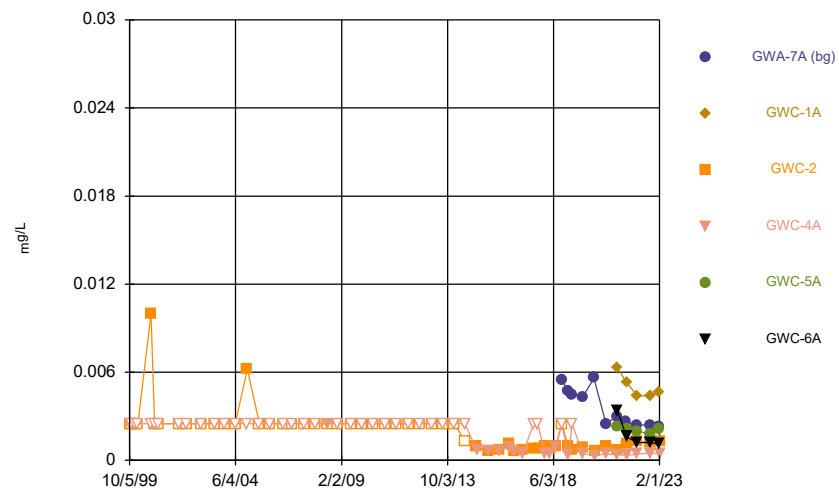
Constituent: Chromium Analysis Run 3/3/2023 10:40 AM View: Descriptive
Plant McIntosh Client: Southern Company Data: McIntosh LF 3 CCR

Time Series



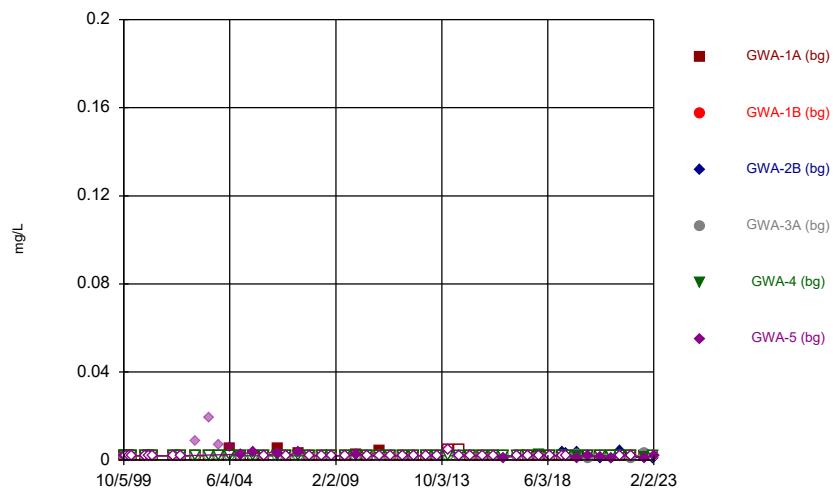
Constituent: Cobalt Analysis Run 3/3/2023 10:40 AM View: Descriptive
Plant McIntosh Client: Southern Company Data: McIntosh LF 3 CCR

Time Series



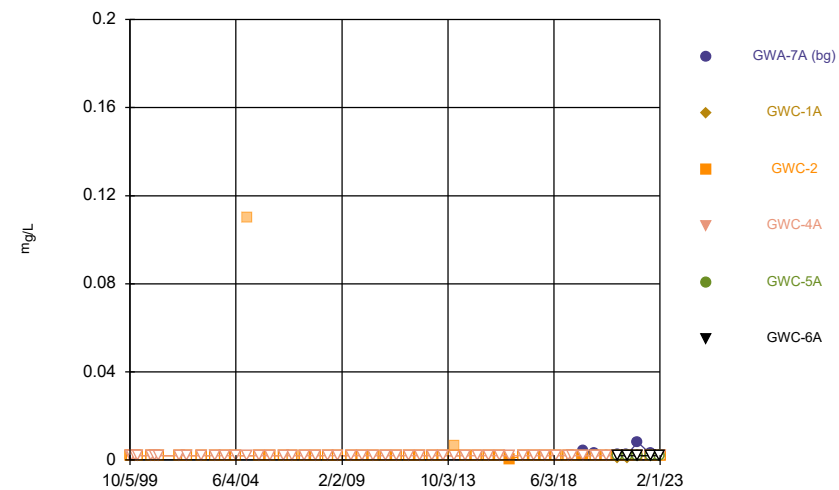
Constituent: Cobalt Analysis Run 3/3/2023 10:40 AM View: Descriptive
Plant McIntosh Client: Southern Company Data: McIntosh LF 3 CCR

Time Series



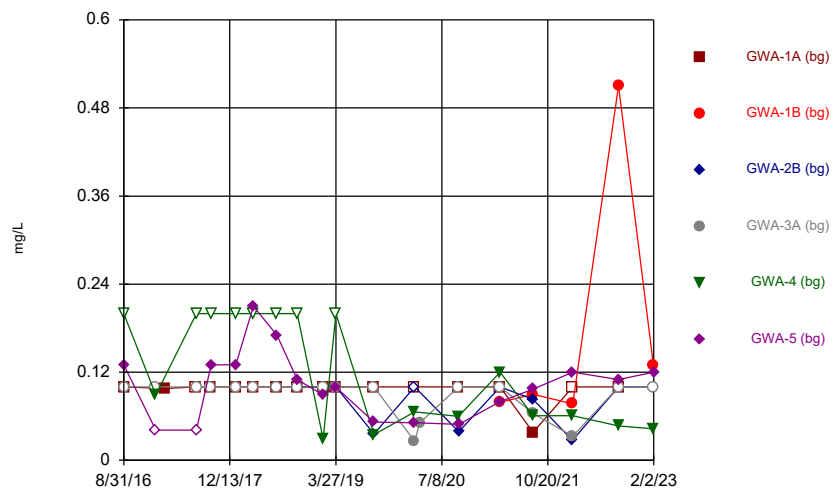
Constituent: Copper Analysis Run 3/3/2023 10:40 AM View: Descriptive
Plant McIntosh Client: Southern Company Data: McIntosh LF 3 CCR

Time Series



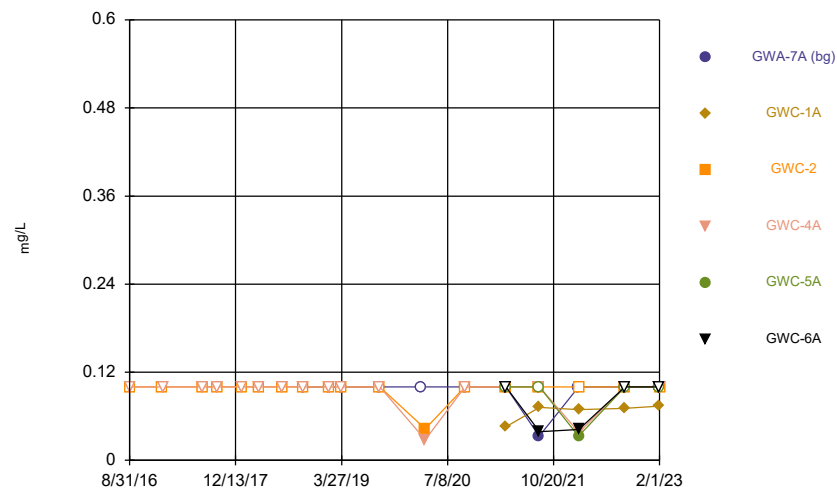
Constituent: Copper Analysis Run 3/3/2023 10:40 AM View: Descriptive
Plant McIntosh Client: Southern Company Data: McIntosh LF 3 CCR

Time Series



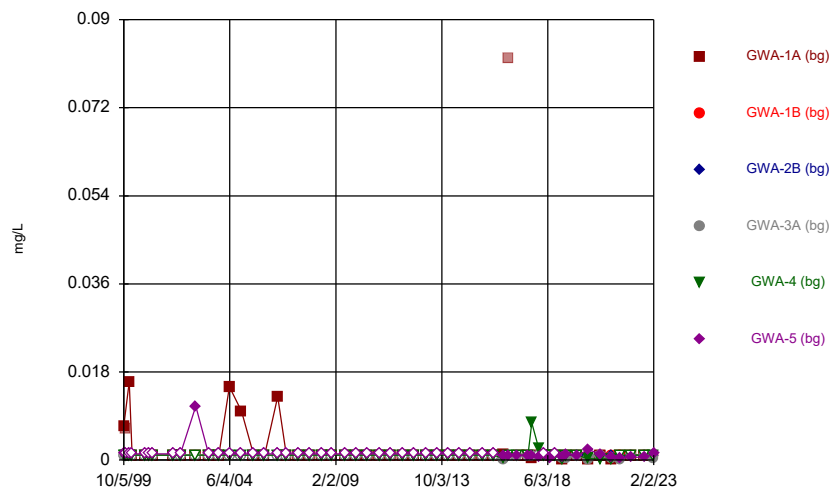
Constituent: Fluoride Analysis Run 3/3/2023 10:40 AM View: Descriptive
Plant McIntosh Client: Southern Company Data: McIntosh LF 3 CCR

Time Series



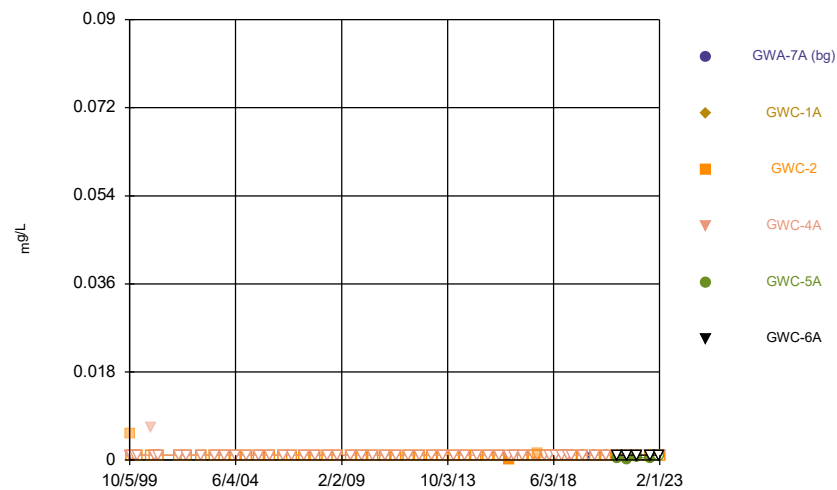
Constituent: Fluoride Analysis Run 3/3/2023 10:40 AM View: Descriptive
Plant McIntosh Client: Southern Company Data: McIntosh LF 3 CCR

Time Series



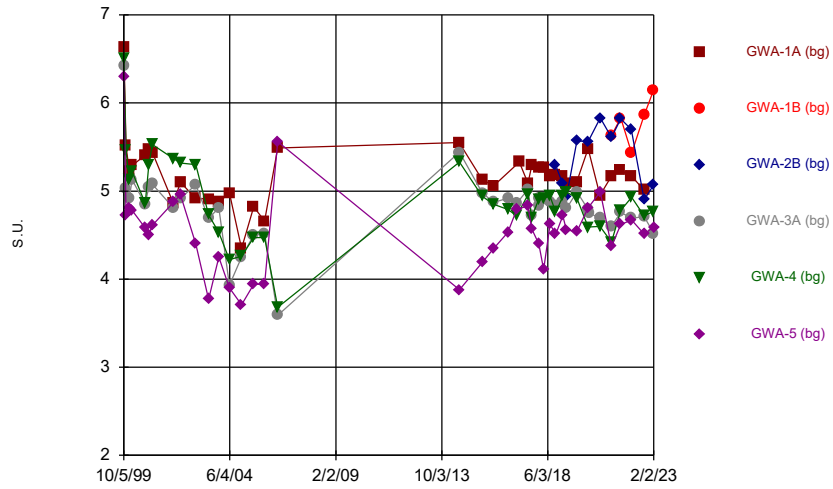
Constituent: Lead Analysis Run 3/3/2023 10:40 AM View: Descriptive
Plant McIntosh Client: Southern Company Data: McIntosh LF 3 CCR

Time Series



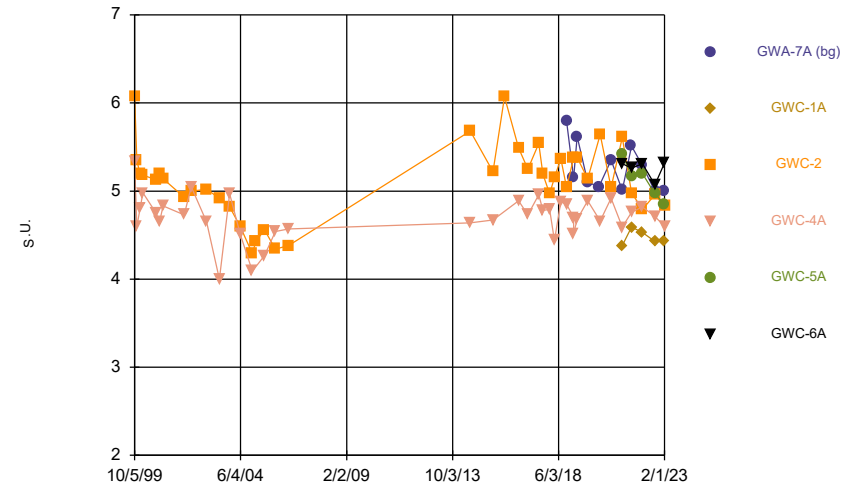
Constituent: Lead Analysis Run 3/3/2023 10:40 AM View: Descriptive
Plant McIntosh Client: Southern Company Data: McIntosh LF 3 CCR

Time Series



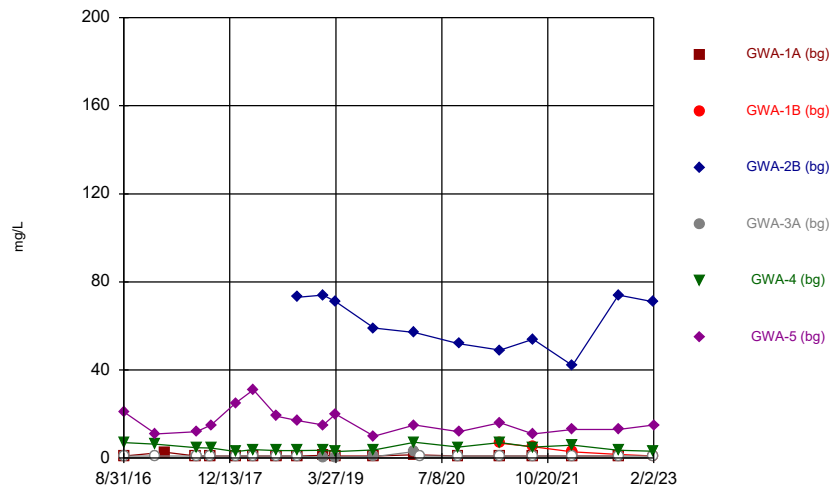
Constituent: pH Analysis Run 3/3/2023 10:40 AM View: Descriptive
 Plant McIntosh Client: Southern Company Data: McIntosh LF 3 CCR

Time Series



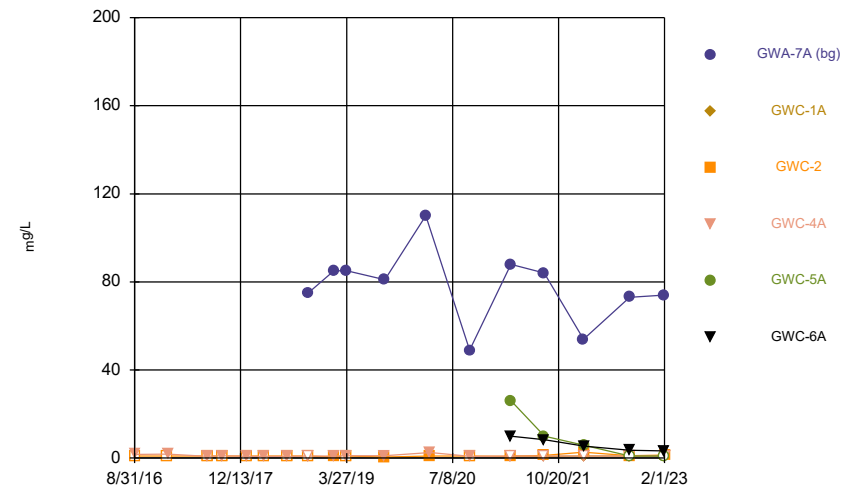
Constituent: pH Analysis Run 3/3/2023 10:40 AM View: Descriptive
 Plant McIntosh Client: Southern Company Data: McIntosh LF 3 CCR

Time Series



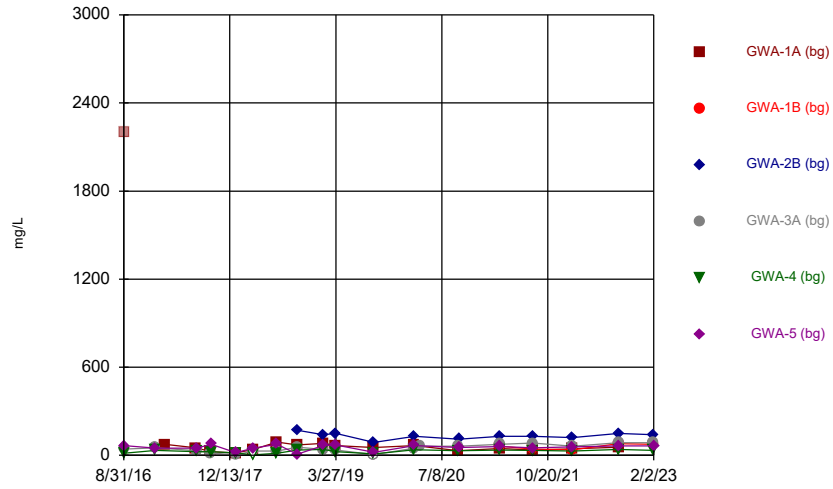
Constituent: Sulfate Analysis Run 3/3/2023 10:40 AM View: Descriptive
 Plant McIntosh Client: Southern Company Data: McIntosh LF 3 CCR

Time Series



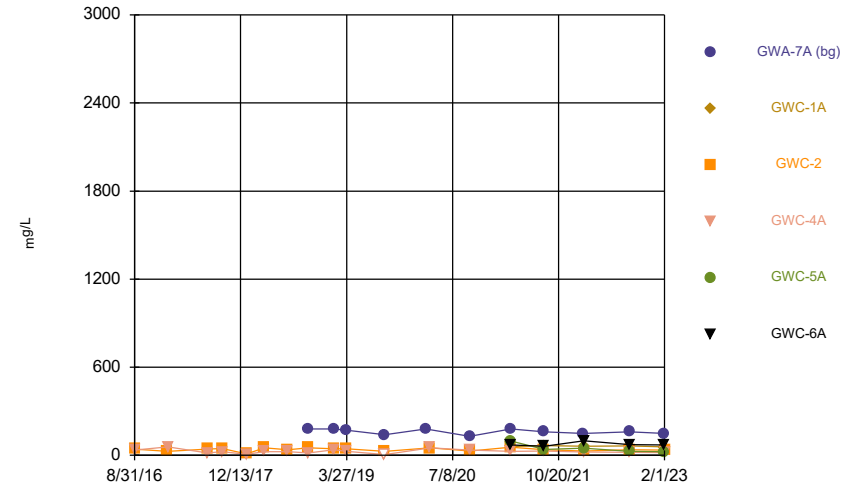
Constituent: Sulfate Analysis Run 3/3/2023 10:40 AM View: Descriptive
 Plant McIntosh Client: Southern Company Data: McIntosh LF 3 CCR

Time Series



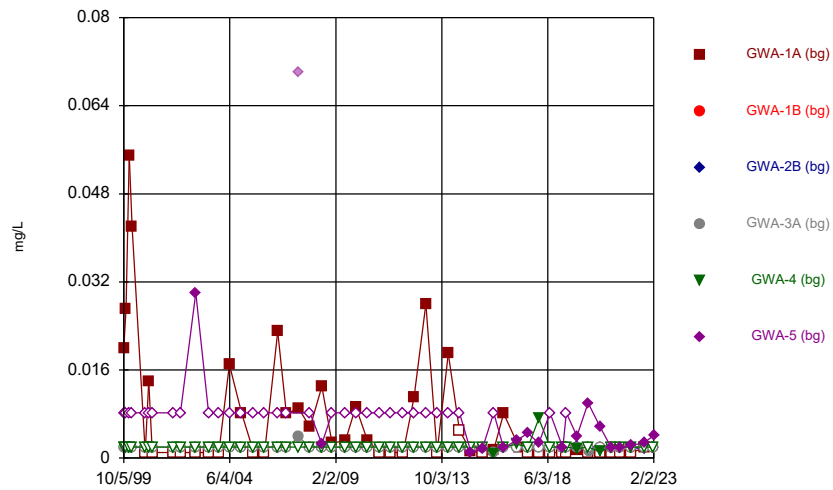
Constituent: Total Dissolved Solids Analysis Run 3/3/2023 10:40 AM View: Descriptive
Plant McIntosh Client: Southern Company Data: McIntosh LF 3 CCR

Time Series



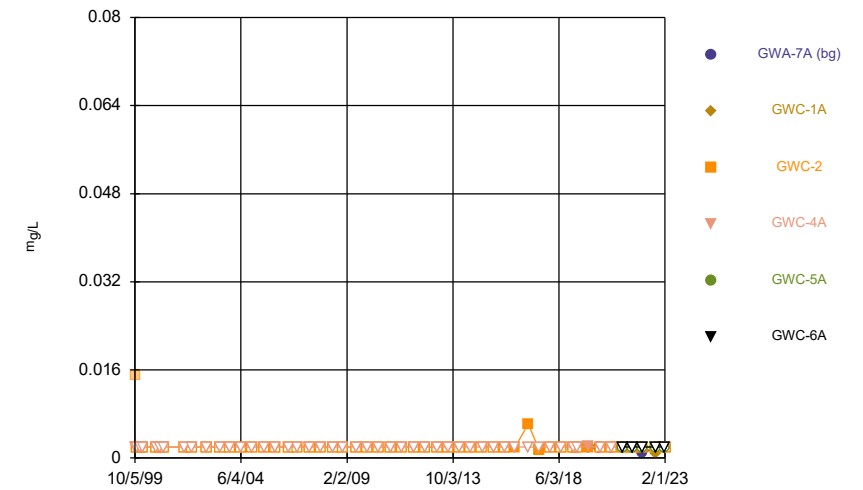
Constituent: Total Dissolved Solids Analysis Run 3/3/2023 10:41 AM View: Descriptive
Plant McIntosh Client: Southern Company Data: McIntosh LF 3 CCR

Time Series



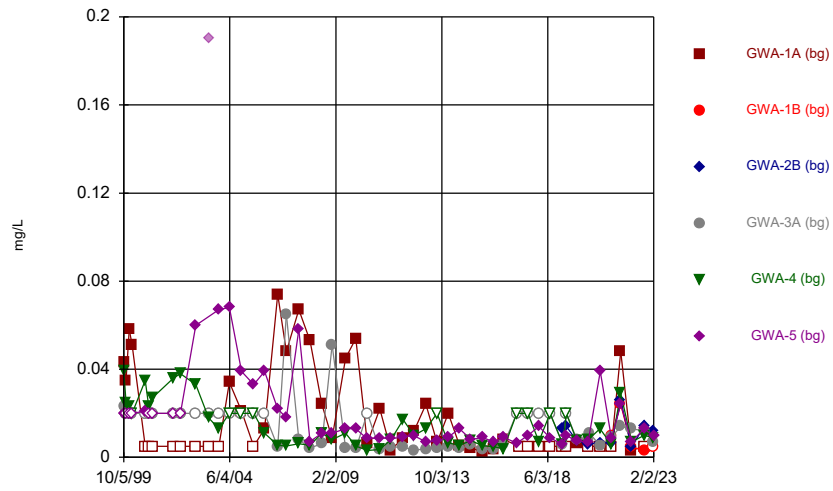
Constituent: Vanadium Analysis Run 3/3/2023 10:41 AM View: Descriptive
Plant McIntosh Client: Southern Company Data: McIntosh LF 3 CCR

Time Series



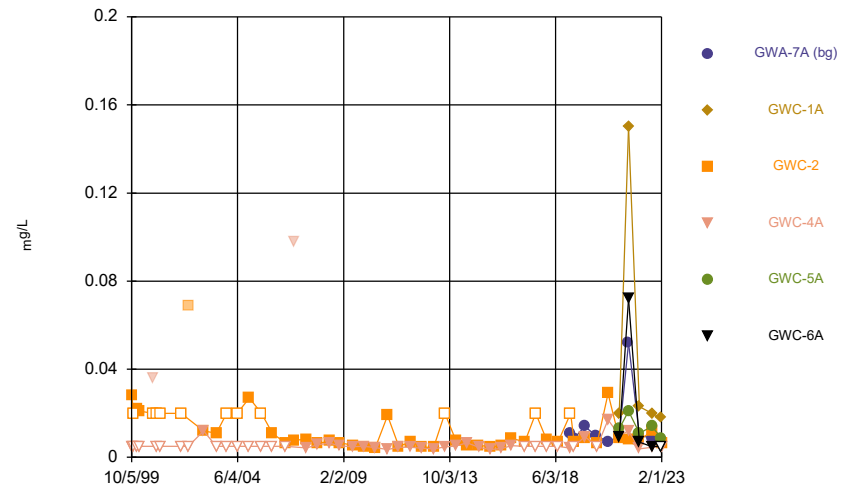
Constituent: Vanadium Analysis Run 3/3/2023 10:41 AM View: Descriptive
Plant McIntosh Client: Southern Company Data: McIntosh LF 3 CCR

Time Series



Constituent: Zinc Analysis Run 3/3/2023 10:41 AM View: Descriptive
Plant McIntosh Client: Southern Company Data: McIntosh LF 3 CCR

Time Series



Constituent: Zinc Analysis Run 3/3/2023 10:41 AM View: Descriptive
Plant McIntosh Client: Southern Company Data: McIntosh LF 3 CCR

Time Series

Constituent: Barium (mg/L) Analysis Run 3/3/2023 10:41 AM View: Descriptive

Plant McIntosh Client: Southern Company Data: McIntosh LF 3 CCR

	GWA-1A (bg)	GWA-1B (bg)	GWA-2B (bg)	GWA-3A (bg)	GWA-4 (bg)	GWA-5 (bg)
10/5/1999	0.084			0.031	0.013	0.1
11/12/1999	0.099			0.023	0.017	0.086
12/29/1999	0.18			0.033	0.027	0.12
2/17/2000	0.12			0.026	0.023	0.13
9/13/2000	0.038			0.044	0.022	0.18
11/10/2000	0.065			0.044	0.035	0.018
1/4/2001	0.037			0.043	0.032	0.23
12/11/2001	0.027			0.041	0.032	0.12
4/4/2002	0.027			0.038	0.03	0.094
12/6/2002	0.028			0.044	0.041	0.33
6/28/2003	0.054			0.045	0.035	0.11
12/13/2003	0.027			0.039	0.029	0.057
5/28/2004	0.18			0.042	0.033	0.035
12/10/2004	0.1			0.045	0.037	0.04
6/24/2005	0.045			0.042	0.034	0.037
12/13/2005	0.048			0.043	0.03	0.039
7/12/2006	0.13			0.043	0.03	0.042
12/1/2006	0.012			0.041	0.032	0.044
6/21/2007	0.2			0.043	0.03	0.058
12/15/2007	0.14			0.045	0.034	0.073
6/21/2008					0.037	
6/22/2008	0.1			0.05		0.096
12/6/2008				0.14	0.034	0.094
12/7/2008	0.043					
7/10/2009				0.046		
7/11/2009	0.13				0.037	0.12
12/22/2009						0.089
12/23/2009	0.17			0.049	0.058	
6/23/2010				0.043	0.046	0.081
6/24/2010	0.045					
1/8/2011				0.047	0.036	0.097
1/9/2011	0.11					
7/10/2011				0.035	0.031	0.084
7/11/2011	0.022					
1/19/2012				0.05	0.045	
1/20/2012	0.043					0.099
7/12/2012				0.042	0.039	0.12
7/13/2012	0.05					
1/21/2013	0.11			0.048	0.042	0.095
7/20/2013	0.04			0.047	0.054	0.086
1/17/2014	0.082			0.049	0.057	0.14
7/12/2014	0.034			0.043	0.042	0.17
1/15/2015				0.05	0.041	
1/16/2015	0.029					0.12
7/15/2015	0.025			0.044	0.04	0.12
1/16/2016	0.026			0.048	0.04	0.12
6/22/2016	0.0374 (D)			0.0471 (D)	0.0453	0.0839
8/31/2016				0.043	0.041	0.093
9/1/2016	0.86 (o)					
1/19/2017				0.052	0.052	0.079
2/28/2017	0.027					
7/17/2017	0.022					

Time Series

Constituent: Barium (mg/L) Analysis Run 3/3/2023 10:41 AM View: Descriptive
 Plant McIntosh Client: Southern Company Data: McIntosh LF 3 CCR

	GWA-1A (bg)	GWA-1B (bg)	GWA-2B (bg)	GWA-3A (bg)	GWA-4 (bg)	GWA-5 (bg)
7/18/2017				0.046	0.037	
7/19/2017						0.085
9/20/2017	0.023			0.053		
9/21/2017					0.042	0.1
1/8/2018	0.022					
1/9/2018				0.05	0.043	0.13
3/27/2018	0.023			0.054	0.039	0.18
7/10/2018	0.024			0.056	0.043	0.14 (o)
10/8/2018	0.03		0.049		0.042	0.11
10/9/2018				0.061		
1/30/2019	0.024		0.041	0.071	0.04	0.079
3/27/2019	0.021					0.12
3/28/2019			0.035	0.068	0.041	
9/11/2019	0.022					
9/12/2019			0.049	0.073	0.044	0.086
3/10/2020	0.018		0.047	0.082	0.058	0.081
4/2/2020				0.088		
9/21/2020	0.023			0.083	0.052	
9/22/2020			0.049			0.078
3/23/2021	0.023	0.021	0.044	0.093		
3/24/2021					0.052	0.096
8/17/2021	0.025	0.022	0.047	0.095	0.056	0.094
2/7/2022			0.047			
2/8/2022	0.024	0.019		0.1	0.054	0.1
8/30/2022	0.023	0.022	0.03	0.11	0.046	0.13
1/31/2023		0.024	0.036			
2/1/2023				0.13	0.05	
2/2/2023						0.13

Time Series

Constituent: Barium (mg/L) Analysis Run 3/3/2023 10:41 AM View: Descriptive

Plant McIntosh Client: Southern Company Data: McIntosh LF 3 CCR

	GWA-7A (bg)	GWC-1A	GWC-2	GWC-4A	GWC-5A	GWC-6A
10/5/1999			0.097	0.095		
11/12/1999			0.057	0.063		
12/29/1999			0.084	0.066		
2/17/2000			0.079	0.023		
9/13/2000			0.06	0.056		
11/10/2000			0.062	0.059		
1/4/2001			0.064	0.079		
12/11/2001			0.057	0.049		
4/4/2002			0.06	0.048		
12/6/2002			0.072	0.1		
6/28/2003			0.066	0.036		
12/13/2003			0.063	0.031		
5/28/2004			0.067	0.038		
12/10/2004			0.075	0.041		
6/24/2005			0.071	0.028		
12/13/2005			0.068	0.025		
7/12/2006			0.058	0.033		
12/1/2006			0.063	0.051		
6/21/2007			0.071	0.052		
12/15/2007			0.068	0.062		
6/21/2008				0.065		
6/22/2008			0.057			
12/6/2008			0.058	0.056		
7/11/2009			0.05	0.059		
12/23/2009			0.05	0.067		
6/23/2010			0.083	0.084		
1/8/2011			0.057	0.053		
7/10/2011			0.046	0.043		
1/20/2012			0.055	0.054		
7/12/2012			0.045	0.053		
1/21/2013			0.045	0.053		
7/20/2013			0.079	0.052		
1/17/2014			0.084	0.063		
7/11/2014				0.068		
7/12/2014			0.065			
1/15/2015			0.067			
1/16/2015				0.059		
7/15/2015			0.049	0.045		
1/17/2016			0.09	0.052		
6/22/2016			0.0806	0.0528		
8/31/2016			0.057	0.037		
1/24/2017			0.06			
1/25/2017				0.034		
7/19/2017			0.06			
7/20/2017				0.028		
9/21/2017			0.063	0.032		
1/9/2018			0.059	0.033		
3/28/2018				0.037		
3/29/2018			0.06			
7/10/2018			0.073	0.065		
10/8/2018	0.14					
10/9/2018			0.057	0.029		

Time Series

Constituent: Barium (mg/L) Analysis Run 3/3/2023 10:41 AM View: Descriptive
Plant McIntosh Client: Southern Company Data: McIntosh LF 3 CCR

	GWA-7A (bg)	GWC-1A	GWC-2	GWC-4A	GWC-5A	GWC-6A
1/30/2019	0.1			0.027		
1/31/2019			0.067			
3/28/2019	0.1		0.064	0.028		
9/12/2019	0.077		0.06	0.026		
3/11/2020	0.067					
3/31/2020			0.077	0.036		
9/21/2020	0.11					
9/22/2020			0.061	0.031		
3/23/2021	0.048		0.083			0.098
3/24/2021		0.29		0.031	0.055	
8/17/2021	0.054					
8/18/2021		0.28	0.062	0.032	0.052	0.09
2/7/2022	0.096					
2/8/2022			0.062		0.052	
2/9/2022		0.27		0.034		0.083
8/30/2022	0.047	0.24	0.058	0.035		
8/31/2022					0.057	0.081
1/31/2023	0.043	0.27			0.07	0.083
2/1/2023			0.063	0.034		

Time Series

Constituent: Beryllium (mg/L) Analysis Run 3/3/2023 10:41 AM View: Descriptive

Plant McIntosh Client: Southern Company Data: McIntosh LF 3 CCR

	GWA-1A (bg)	GWA-1B (bg)	GWA-2B (bg)	GWA-3A (bg)	GWA-4 (bg)	GWA-5 (bg)
10/5/1999	<0.0025			<0.0025	<0.0025	<0.0025
11/12/1999	<0.0025			<0.0025	<0.0025	<0.0025
12/29/1999	<0.0025			<0.0025	<0.0025	<0.0025
2/17/2000	<0.0025			<0.0025	<0.0025	<0.0025
9/13/2000	<0.0025			<0.0025	<0.0025	<0.0025
11/10/2000	<0.0025			<0.0025	<0.0025	<0.0025
1/4/2001	<0.0025			<0.0025	<0.0025	<0.0025
12/11/2001	<0.0025			<0.0025	<0.0025	<0.0025
4/4/2002	<0.0025			<0.0025	<0.0025	<0.0025
12/6/2002	<0.0025			<0.0025	<0.0025	0.0018
6/28/2003	<0.0025			<0.0025	<0.0025	0.0036
12/13/2003	<0.0025			<0.0025	<0.0025	0.0019
5/28/2004	<0.0025			<0.0025	<0.0025	<0.0025
12/10/2004	0.0028			0.0024	0.0023	0.0035
6/24/2005	<0.0025			<0.0025	<0.0025	<0.0025
12/13/2005	<0.0025			<0.0025	<0.0025	<0.0025
7/12/2006	0.0013			<0.0025	<0.0025	0.0013
12/1/2006	<0.0025			<0.0025	<0.0025	<0.0025
6/21/2007	<0.0025			<0.0025	<0.0025	<0.0025
12/15/2007	<0.0025			<0.0025	<0.0025	<0.0025
6/21/2008					<0.0025	
6/22/2008	<0.0025			<0.0025		<0.0025
12/6/2008				<0.0025	<0.0025	<0.0025
12/7/2008	<0.0025					
7/10/2009				<0.0025		
7/11/2009	<0.0025				<0.0025	<0.0025
12/22/2009						<0.0025
12/23/2009	<0.0025			<0.0025	<0.0025	
6/23/2010				<0.0025	<0.0025	<0.0025
6/24/2010	<0.0025					
1/8/2011				<0.0025	<0.0025	<0.0025
1/9/2011	<0.0025					
7/10/2011				<0.0025	<0.0025	<0.0025
7/11/2011	<0.0025					
1/19/2012				<0.0025	<0.0025	
1/20/2012	<0.0025					<0.0025
7/12/2012				<0.0025	<0.0025	<0.0025
7/13/2012	<0.0025					
1/21/2013	<0.0025			<0.0025	<0.0025	<0.0025
7/20/2013	<0.0025			<0.0025	<0.0025	<0.0025
1/17/2014	<0.0013 (J)			<0.0025	<0.0013 (J)	<0.0013 (J)
7/12/2014	<0.0013 (J)			<0.0025	<0.0013 (J)	<0.0013 (J)
1/15/2015				0.00039 (J)	0.0002 (J)	
1/16/2015	0.00022 (J)					0.00043 (J)
7/15/2015	0.00015 (J)			0.00031 (J)	0.00018 (J)	0.00064 (J)
1/16/2016	0.00011 (J)			0.00034 (J)	0.00013 (J)	0.00039 (J)
6/22/2016	0.00025 (JD)			0.0004 (J)	0.0001 (J)	0.0002 (J)
8/31/2016				0.00035 (J)	<0.0025	<0.0025
9/1/2016	0.0084 (o)					
1/19/2017				<0.0025	<0.0025	<0.0025
2/28/2017	<0.0025					
7/17/2017	<0.0025					

Time Series

Constituent: Beryllium (mg/L) Analysis Run 3/3/2023 10:41 AM View: Descriptive
 Plant McIntosh Client: Southern Company Data: McIntosh LF 3 CCR

	GWA-1A (bg)	GWA-1B (bg)	GWA-2B (bg)	GWA-3A (bg)	GWA-4 (bg)	GWA-5 (bg)
7/18/2017				0.00038 (J)	<0.0025	
7/19/2017						<0.0025
9/20/2017	<0.0025			0.00039 (J)		
9/21/2017					<0.0025	<0.0025
1/8/2018	<0.0025					
1/9/2018				<0.0025	<0.0025	<0.0025
3/27/2018	<0.0025			<0.0025	<0.0025	<0.0025
7/10/2018	<0.0025			0.00038 (J)	<0.0025	<0.0025
10/8/2018	<0.0025		0.0014 (J)		<0.0025	<0.0025
10/9/2018				<0.0025		
1/30/2019	0.00026 (J)		0.0019 (J)	0.00051 (J)	0.00019 (J)	0.00024 (J)
3/27/2019	<0.0025					<0.0025
3/28/2019			0.0017 (J)	0.00046 (J)	<0.0025	
9/11/2019	0.00019 (J)					
9/12/2019			0.00088 (J)	0.00084 (J)	<0.0025	0.00036 (J)
3/10/2020	0.00018 (J)		0.00087 (J)	0.00058 (J)	0.00029 (J)	0.00028 (J)
4/2/2020				0.00062 (J)		
9/21/2020	0.0002 (J)			0.00054 (J)	<0.0025	
9/22/2020			0.00042 (J)			<0.0025
3/23/2021	0.00021 (J)	<0.0025	0.00071 (J)	0.00063 (J)		
3/24/2021					0.00019 (J)	0.00026 (J)
8/17/2021	<0.0025	<0.0025	0.00068 (J)	0.00049 (J)	<0.0025	0.00018 (J)
2/7/2022			0.00071 (J)			
2/8/2022	<0.0025	<0.0025		0.00061 (J)	<0.0025	<0.0025
8/30/2022	0.00035 (J)	<0.0025	0.0019 (J)	0.00083 (J)	0.00028 (J)	<0.0025
1/31/2023		<0.0025	0.0018 (J)			
2/1/2023				0.00078 (J)	0.00024 (J)	
2/2/2023						0.0005 (J)

Time Series

Constituent: Beryllium (mg/L) Analysis Run 3/3/2023 10:41 AM View: Descriptive

Plant McIntosh Client: Southern Company Data: McIntosh LF 3 CCR

	GWA-7A (bg)	GWC-1A	GWC-2	GWC-4A	GWC-5A	GWC-6A
10/5/1999			<0.0025	<0.0025		
11/12/1999			<0.0025	<0.0025		
12/29/1999			<0.0025	<0.0025		
2/17/2000			<0.0025	<0.0025		
9/13/2000			<0.0025	<0.0025		
11/10/2000			<0.0025	<0.0025		
1/4/2001			<0.0025	<0.0025		
12/11/2001			<0.0025	<0.0025		
4/4/2002			<0.0025	<0.0025		
12/6/2002			<0.0025	<0.0025		
6/28/2003			<0.0025	<0.0025		
12/13/2003			<0.0025	<0.0025		
5/28/2004			<0.0025	<0.0025		
12/10/2004			0.0023	0.0023		
6/24/2005			<0.0025	<0.0025		
12/13/2005			<0.0025	<0.0025		
7/12/2006			0.0013	0.0013		
12/1/2006			<0.0025	<0.0025		
6/21/2007			<0.0025	<0.0025		
12/15/2007			<0.0025	<0.0025		
6/21/2008				<0.0025		
6/22/2008			<0.0025			
12/6/2008			<0.0025	<0.0025		
7/11/2009			<0.0025	<0.0025		
12/23/2009			<0.0025	<0.0025		
6/23/2010			<0.0025	<0.0025		
1/8/2011			<0.0025	<0.0025		
7/10/2011			<0.0025	<0.0025		
1/20/2012			<0.0025	<0.0025		
7/12/2012			<0.0025	<0.0025		
1/21/2013			<0.0025	<0.0025		
7/20/2013			<0.0025	<0.0025		
1/17/2014			<0.0013 (J)	<0.0025		
7/11/2014				<0.0013 (J)		
7/12/2014			<0.0013 (J)			
1/15/2015			0.00019 (J)			
1/16/2015				0.00012 (J)		
7/15/2015			0.00018 (J)	<0.0025		
1/17/2016			0.00011 (J)	<0.0025		
6/22/2016			0.0002 (J)	<0.0025		
8/31/2016			<0.0025	<0.0025		
1/24/2017			<0.0025			
1/25/2017				<0.0025		
7/19/2017			<0.0025			
7/20/2017				<0.0025		
9/21/2017			<0.0025	<0.0025		
1/9/2018			<0.0025	<0.0025		
3/28/2018				<0.0025		
3/29/2018			<0.0025			
7/10/2018			<0.0025	<0.0025		
10/8/2018	<0.0025					
10/9/2018			<0.0025	<0.0025		

Time Series

Constituent: Beryllium (mg/L) Analysis Run 3/3/2023 10:41 AM View: Descriptive
 Plant McIntosh Client: Southern Company Data: McIntosh LF 3 CCR

	GWA-7A (bg)	GWC-1A	GWC-2	GWC-4A	GWC-5A	GWC-6A
1/30/2019	0.00047 (J)			7E-05 (J)		
1/31/2019			6.5E-05 (J)			
3/28/2019	0.00034 (J)		<0.0025	<0.0025		
9/12/2019	0.00097 (J)		<0.0025	0.00028 (J)		
3/11/2020	0.00078 (J)					
3/31/2020			<0.0025	<0.0025		
9/21/2020	<0.0025					
9/22/2020			0.00025 (J)	<0.0025		
3/23/2021	0.00066 (J)		0.00018 (J)			<0.0025
3/24/2021		0.00039 (J)		<0.0025	<0.0025	
8/17/2021	0.00047 (J)					
8/18/2021		0.00041 (J)	0.0002 (J)	<0.0025	<0.0025	<0.0025
2/7/2022	<0.0025					
2/8/2022			<0.0025	<0.0025		
2/9/2022		0.0004 (J)		<0.0025		0.00032 (J)
8/30/2022	0.0007 (J)	0.00042 (J)	0.00038 (J)	<0.0025		
8/31/2022					<0.0025	0.00029 (J)
1/31/2023	0.00056 (J)	0.00043 (J)			0.00023 (J)	0.00031 (J)
2/1/2023			0.00024 (J)	<0.0025		

Time Series

Constituent: Boron (mg/L) Analysis Run 3/3/2023 10:41 AM View: Descriptive

Plant McIntosh Client: Southern Company Data: McIntosh LF 3 CCR

	GWA-1A (bg)	GWA-1B (bg)	GWA-2B (bg)	GWA-3A (bg)	GWA-4 (bg)	GWA-5 (bg)
8/31/2016				<0.08	<0.08	0.073
9/1/2016	0.029 (J)					
1/19/2017				<0.08	0.027 (J)	0.036 (J)
2/28/2017	<0.08					
7/17/2017	<0.08					
7/18/2017				<0.08	<0.08	
7/19/2017						0.07
9/20/2017	<0.08			<0.08		
9/21/2017					<0.08	0.07
1/8/2018	<0.08					
1/9/2018				<0.08	<0.08	0.042 (J)
3/27/2018	<0.08			<0.08	<0.08	0.037 (J)
7/10/2018	<0.08			<0.08	<0.08	0.042 (J)
10/8/2018	<0.08		0.76		<0.08	0.044 (J)
10/9/2018				<0.08		
1/30/2019	<0.08		0.77	<0.08	<0.08	0.03 (J)
3/27/2019	<0.08					0.036 (J)
3/28/2019			0.83	0.024 (J)	<0.08	
9/11/2019	<0.08					
9/12/2019			0.65	<0.08	<0.08	0.048 (J)
3/10/2020	<0.08		0.64	0.059 (J)	<0.08	0.066 (J)
4/2/2020				0.084		
9/21/2020	0.11			0.11	0.073 (J)	
9/22/2020			0.73			0.097
3/23/2021	<0.08	0.1	0.57	0.088		
3/24/2021					<0.08	0.048 (J)
8/17/2021	0.049 (J)	0.11	0.68	0.098	0.045 (J)	0.067 (J)
2/7/2022			0.54			
2/8/2022	<0.08	0.084		0.077 (J)	<0.08	<0.08
8/30/2022	<0.08	0.12	0.98	0.1	<0.08	<0.08
1/31/2023		0.044 (J)	0.99			
2/1/2023				0.087	0.023 (J)	
2/2/2023						0.039 (J)

Time Series

Constituent: Boron (mg/L) Analysis Run 3/3/2023 10:41 AM View: Descriptive

Plant McIntosh Client: Southern Company Data: McIntosh LF 3 CCR

	GWA-7A (bg)	GWC-1A	GWC-2	GWC-4A	GWC-5A	GWC-6A
8/31/2016			0.023 (J)	<0.08		
1/24/2017			<0.021			
1/25/2017				0.023 (J)		
7/19/2017			0.026 (J)			
7/20/2017				<0.08		
9/21/2017			0.025 (J)	<0.08		
1/9/2018			0.023 (J)	<0.08		
3/28/2018				<0.08		
3/29/2018			0.035 (J)			
7/10/2018			0.044 (J)	<0.08		
10/8/2018	1.3					
10/9/2018			0.043 (J)	<0.08		
1/30/2019	1.5			<0.08		
1/31/2019			0.04 (J)			
3/28/2019	1.4		0.062	<0.08		
9/12/2019	1.6		0.045 (J)	<0.08		
3/11/2020	1.9					
3/31/2020			0.046 (J)	<0.08		
9/21/2020	0.61					
9/22/2020			0.083	0.053 (J)		
3/23/2021	1.5		0.07 (J)			0.043 (J)
3/24/2021		0.36		<0.08	<0.08	
8/17/2021	1.4					
8/18/2021		0.25	0.095	0.043 (J)	<0.08	0.077 (J)
2/7/2022	0.6					
2/8/2022			0.094		<0.08	
2/9/2022		0.13		<0.08		<0.08
8/30/2022	1.2	0.099	0.085	<0.08		
8/31/2022					<0.08	<0.08
1/31/2023	1.3	0.094			0.033 (J)	0.047 (J)
2/1/2023			0.091	<0.08		

Time Series

Constituent: Calcium (mg/L) Analysis Run 3/3/2023 10:41 AM View: Descriptive

Plant McIntosh Client: Southern Company Data: McIntosh LF 3 CCR

	GWA-1A (bg)	GWA-1B (bg)	GWA-2B (bg)	GWA-3A (bg)	GWA-4 (bg)	GWA-5 (bg)
8/31/2016				1.5	0.88	3.7
9/1/2016	26 (o)					
1/19/2017				1.8	1.1	2
2/28/2017	2.7					
7/17/2017	1.7					
7/18/2017				1.7	0.86	
7/19/2017						2.6
9/20/2017	1.5			1.7		
9/21/2017					0.9	2.7
1/8/2018	1.7					
1/9/2018				1.9	1	4.1
3/27/2018	1.7			1.9	0.89	4.8
7/10/2018	1.7			1.9	0.99	3.7
10/8/2018	1.6		17		1.1	3.2
10/9/2018				2.2		
1/30/2019	1.9		16	2.4	1	1.7
3/27/2019	1.6					3.1
3/28/2019			16	2.4	0.98	
9/11/2019	1.6					
9/12/2019			15	2.3	0.84	1.9
3/10/2020	2		14	2.8	1.1	2.9
4/2/2020				3		
9/21/2020	1.8			3.1	1.4	
9/22/2020			16			2.9
3/23/2021	1.8	4	15	3.6		
3/24/2021					1.3	3.1
8/17/2021	1.8	3.9	15	3.5	1.4	2.9
2/7/2022			12			
2/8/2022	1.7	2.7		3.3	1.3	2.8
8/30/2022	1.8	5.2	15	3.9	1.2	3.4
1/31/2023		6.8	16			
2/1/2023				4.6	1.4	
2/2/2023						3.7

Time Series

Constituent: Calcium (mg/L) Analysis Run 3/3/2023 10:41 AM View: Descriptive

Plant McIntosh Client: Southern Company Data: McIntosh LF 3 CCR

	GWA-7A (bg)	GWC-1A	GWC-2	GWC-4A	GWC-5A	GWC-6A
8/31/2016			5.5	0.42		
1/24/2017			2.9			
1/25/2017				0.37		
7/19/2017			4.2			
7/20/2017				0.29		
9/21/2017			2.9	0.3		
1/9/2018			1.7	0.38		
3/28/2018				0.44		
3/29/2018			2.2			
7/10/2018			3.9	2 (o)		
10/8/2018	17					
10/9/2018			1.7	0.34		
1/30/2019	15			0.34		
1/31/2019			4.8			
3/28/2019	18		4.9	0.3		
9/12/2019	19		2	0.3 (J)		
3/11/2020	20					
3/31/2020			8.3	0.48 (J)		
9/21/2020	13					
9/22/2020			2.1	0.51		
3/23/2021	19		9.2			5
3/24/2021		3.3		0.46 (J)	6.1	
8/17/2021	17					
8/18/2021		2.9	1.7	0.37 (J)	2.7	3.8
2/7/2022	11					
2/8/2022			1.3		2.1	
2/9/2022		2.5		0.39 (J)		3.2
8/30/2022	14	2.3	1.4	0.39 (J)		
8/31/2022					0.98	3.2
1/31/2023	15	2.6			1	3.1
2/1/2023			1.3	0.34 (J)		

Time Series

Constituent: Chloride (mg/L) Analysis Run 3/3/2023 10:41 AM View: Descriptive

Plant McIntosh Client: Southern Company Data: McIntosh LF 3 CCR

	GWA-1A (bg)	GWA-1B (bg)	GWA-2B (bg)	GWA-3A (bg)	GWA-4 (bg)	GWA-5 (bg)
8/31/2016				6.8	3.7	7.1
9/1/2016	8					
1/19/2017				6.9	4.6	3.3
2/28/2017	8.5					
7/17/2017	7.8					
7/18/2017				7.4	4.2	
7/19/2017						5.8
9/20/2017	8			7.6		
9/21/2017					4.4	6.2
1/8/2018	7.9					
1/9/2018				8.6	4.4	9.9
3/27/2018	8			9.4	4.9	13
7/10/2018	7.8			11	5.5	17
10/8/2018	8.5		7.3		6.6	16
10/9/2018				14		
1/30/2019	8.2		7.3	15	6.9	6.5
3/27/2019	8.1					9.1
3/28/2019			6.1	15	5.7	
9/11/2019	7.1					
9/12/2019			7.6	16	6.1	9.1
3/10/2020	8.1		8	19	5	3.7
4/2/2020				20		
9/21/2020	8.1			19	5.4	
9/22/2020			8			6.3
3/23/2021	8.6	9.9	7.8	22		
3/24/2021					6.2	7.4
8/17/2021	9.1	10	7.7	23	6.1	11
2/7/2022			6.7			
2/8/2022	8.6	9.5		23	6.4	12
8/30/2022	8.5	7.7	5.9	26	4.7	15
1/31/2023		8	6.7			
2/1/2023				30	4.5	
2/2/2023						15

Time Series

Constituent: Chloride (mg/L) Analysis Run 3/3/2023 10:41 AM View: Descriptive
Plant McIntosh Client: Southern Company Data: McIntosh LF 3 CCR

	GWA-7A (bg)	GWC-1A	GWC-2	GWC-4A	GWC-5A	GWC-6A
8/31/2016			5.6	19		
1/24/2017			5.4			
1/25/2017				15		
7/19/2017			5.6			
7/20/2017				14		
9/21/2017			5.5	14		
1/9/2018			5.6	15		
3/28/2018				14		
3/29/2018			5.3			
7/10/2018			5.2	13		
10/8/2018	6.8					
10/9/2018			5.4	13		
1/30/2019	7.1			12		
1/31/2019			5.2			
3/28/2019	6.1		4.6	11		
9/12/2019	6.8		5.2	9.9		
3/11/2020	6.9					
3/31/2020			5.7	14		
9/21/2020	6.5					
9/22/2020			5.4	11		
3/23/2021	7.6		5.2			11
3/24/2021		15		10	15	
8/17/2021	8.3					
8/18/2021		16	5.7	7.3	7.8	12
2/7/2022	7.6					
2/8/2022			5		5.9	
2/9/2022		15		5.3		9.5
8/30/2022	7.5	14	4.8	4.8		
8/31/2022					4.5	9.6
1/31/2023	7.9	14			4.5	9.7
2/1/2023			4.8	4.3		

Time Series

Constituent: Chromium (mg/L) Analysis Run 3/3/2023 10:41 AM View: Descriptive

Plant McIntosh Client: Southern Company Data: McIntosh LF 3 CCR

	GWA-1A (bg)	GWA-1B (bg)	GWA-2B (bg)	GWA-3A (bg)	GWA-4 (bg)	GWA-5 (bg)
10/5/1999	0.023			<0.002	<0.002	<0.002
11/12/1999	0.03			<0.002	<0.002	<0.002
12/29/1999	0.059 (o)			<0.002	<0.002	<0.002
2/17/2000	0.048 (o)			<0.002	<0.002	<0.002
9/13/2000	<0.0025			<0.002	<0.002	<0.002
11/10/2000	0.018			<0.002	<0.002	<0.002
1/4/2001	<0.0025			<0.002	<0.002	<0.002
12/11/2001	<0.0025			<0.002	<0.002	<0.002
4/4/2002	<0.0025			<0.002	<0.002	<0.002
12/6/2002	0.0046			<0.002	0.0037	0.027
6/28/2003	0.0082			0.0053	0.0039	0.0051
12/13/2003	<0.0025			<0.002	<0.002	<0.002
5/28/2004	0.016			0.0027	<0.002	0.0031
12/10/2004	0.0087			0.004	<0.002	0.0067
6/24/2005	0.0069			0.0031	<0.002	<0.002
12/13/2005	0.0075			0.0031	<0.002	<0.002
7/12/2006	0.027			0.0025	0.023	<0.002
12/1/2006	<0.0025			0.0037	0.0017	<0.002
6/21/2007	0.012			0.0053	0.0027	0.0021
12/15/2007	0.0085			0.0044	0.0026	0.0022
6/21/2008					0.0021	
6/22/2008	0.021			0.0059		0.0019
12/6/2008				0.0031	<0.002	<0.002
12/7/2008	0.01					
7/10/2009				0.0029		
7/11/2009	0.0073				<0.002	<0.002
12/22/2009						0.0032
12/23/2009	0.013			0.0025	<0.002	
6/23/2010				0.0013	<0.002	<0.002
6/24/2010	0.0076					
1/8/2011				0.0017	<0.002	0.0019
1/9/2011	0.023					
7/10/2011				<0.002	<0.002	<0.002
7/11/2011	0.0042					
1/19/2012				<0.002	<0.002	
1/20/2012	0.009					<0.002
7/12/2012				<0.002	<0.002	0.0044
7/13/2012	0.013					
1/21/2013	0.032			0.0014	<0.002	<0.002
7/20/2013	0.01			0.0021	<0.002	0.0017
1/17/2014	0.024			0.0023	<0.002	<0.0013 (J)
7/12/2014	0.0069			<0.0013 (J)	<0.002	0.0014
1/15/2015				<0.002	<0.002	
1/16/2015	0.0064					0.0011 (J)
7/15/2015	0.0051			<0.002	<0.002	0.0016
1/16/2016	0.0066			0.0025	<0.002	<0.002
6/22/2016	0.00815 (JD)			0.00255 (JD)	0.0005 (J)	0.002 (J)
8/31/2016				0.0042	<0.002	0.002 (J)
9/1/2016	0.12 (o)					
1/19/2017				0.0039	<0.002	0.002 (J)
2/28/2017	0.0012 (J)					
7/17/2017	0.003					

Time Series

Constituent: Chromium (mg/L) Analysis Run 3/3/2023 10:41 AM View: Descriptive
 Plant McIntosh Client: Southern Company Data: McIntosh LF 3 CCR

	GWA-1A (bg)	GWA-1B (bg)	GWA-2B (bg)	GWA-3A (bg)	GWA-4 (bg)	GWA-5 (bg)
7/18/2017				0.0018 (J)	<0.002	
7/19/2017						0.0017 (J)
9/20/2017	0.0025			0.0026		
9/21/2017					<0.002	0.0021 (J)
1/8/2018	0.0038					
1/9/2018				0.0038	0.0087	0.0019 (J)
3/27/2018	0.0044			0.0037	<0.002	<0.002
7/10/2018	0.0045			0.0022 (J)	<0.002	0.0012 (J)
10/8/2018	0.0054		<0.002		<0.002	0.0015 (J)
10/9/2018				0.0047		
1/30/2019	0.0061		0.003	0.005	0.00088 (J)	0.0014 (J)
3/27/2019	0.0044					<0.002
3/28/2019			0.0017 (J)	0.0037	<0.002	
9/11/2019	0.0076					
9/12/2019			<0.002	<0.002	<0.002	0.0032
3/10/2020	0.0041		<0.002	<0.002	<0.002	0.0031
4/2/2020				0.0031		
9/21/2020	0.0049			<0.002	<0.002	
9/22/2020			<0.002			0.0017 (J)
3/23/2021	0.0047	<0.002	<0.002	0.0022		
3/24/2021					<0.002	<0.002
8/17/2021	0.0046	<0.002	<0.002	<0.002	<0.002	<0.002
2/7/2022			<0.002			
2/8/2022	0.0051	<0.002		<0.002	<0.002	0.003
8/30/2022	0.0047	<0.002	0.0028	0.0084	<0.002	<0.002
1/31/2023		<0.002	0.0022			
2/1/2023				0.0016 (J)	0.0016 (J)	
2/2/2023						0.0023

Time Series

Constituent: Chromium (mg/L) Analysis Run 3/3/2023 10:41 AM View: Descriptive

Plant McIntosh Client: Southern Company Data: McIntosh LF 3 CCR

	GWA-7A (bg)	GWC-1A	GWC-2	GWC-4A	GWC-5A	GWC-6A
10/5/1999			0.017	<0.002		
11/12/1999			<0.005	<0.002		
12/29/1999			0.011	<0.002		
2/17/2000			0.013	<0.002		
9/13/2000			<0.005	<0.002		
11/10/2000			<0.005	<0.002		
1/4/2001			<0.005	<0.002		
12/11/2001			<0.005	<0.002		
4/4/2002			<0.005	<0.002		
12/6/2002			<0.005	<0.002		
6/28/2003			0.0027	0.061 (o)		
12/13/2003			<0.005	<0.002		
5/28/2004			<0.005	<0.002		
12/10/2004			0.74 (o)	0.0059 (o)		
2/5/2005			<0.005			
6/24/2005			0.0023	<0.002		
12/13/2005			0.0031	<0.002		
7/12/2006			0.0016	<0.002		
12/1/2006			0.0022	<0.002		
6/21/2007			0.002	<0.002		
12/15/2007			0.0029	<0.002		
6/21/2008				<0.002		
6/22/2008			0.0023			
12/6/2008			0.0023	<0.002		
7/11/2009			0.0015	<0.002		
12/23/2009			0.0014	<0.002		
6/23/2010			0.0018	<0.002		
1/8/2011			0.0033	<0.002		
7/10/2011			0.0028	<0.002		
1/20/2012			<0.005	<0.002		
7/12/2012			0.0025	<0.002		
1/21/2013			0.0022	<0.002		
7/20/2013			0.0075	<0.002		
1/17/2014			0.0039	<0.002		
7/11/2014				<0.002		
7/12/2014			0.0031			
1/15/2015			0.0026			
1/16/2015				<0.002		
7/15/2015			0.0032	<0.002		
1/17/2016			0.0029	<0.002		
6/22/2016			0.0036 (J)	<0.002		
8/31/2016			0.0027	<0.002		
1/24/2017			0.0034			
1/25/2017				<0.002 (D)		
7/19/2017			0.0028			
7/20/2017				<0.002		
9/21/2017			0.0035	<0.002		
1/9/2018			0.003	<0.002		
3/28/2018				0.0019 (J)		
3/29/2018			0.0032			
7/10/2018			0.0033	0.0029		
10/8/2018	<0.002					

Time Series

Constituent: Chromium (mg/L) Analysis Run 3/3/2023 10:41 AM View: Descriptive
Plant McIntosh Client: Southern Company Data: McIntosh LF 3 CCR

	GWA-7A (bg)	GWC-1A	GWC-2	GWC-4A	GWC-5A	GWC-6A
10/9/2018			0.0039	<0.002		
1/30/2019	<0.002			<0.002		
1/31/2019			0.0061			
3/28/2019	<0.002		0.0049	<0.002		
9/12/2019	<0.002		0.0048	0.0028		
3/11/2020	<0.002					
3/31/2020			0.005	<0.002		
9/21/2020	<0.002					
9/22/2020			0.0036	<0.002		
3/23/2021	<0.002		0.0048			<0.002
3/24/2021		<0.002		<0.002	<0.002	
8/17/2021	<0.002					
8/18/2021		<0.002	0.0064	<0.002	<0.002	<0.002
2/7/2022	<0.002					
2/8/2022			0.0046		<0.002	
2/9/2022		<0.002		<0.002		<0.002
8/30/2022	<0.002	<0.002	0.005	<0.002		
8/31/2022					0.0021	<0.002
1/31/2023	<0.002	<0.002			<0.002	<0.002
2/1/2023			0.0037	<0.002		

Time Series

Constituent: Cobalt (mg/L) Analysis Run 3/3/2023 10:41 AM View: Descriptive

Plant McIntosh Client: Southern Company Data: McIntosh LF 3 CCR

	GWA-1A (bg)	GWA-1B (bg)	GWA-2B (bg)	GWA-3A (bg)	GWA-4 (bg)	GWA-5 (bg)
10/5/1999	<0.0025			<0.0025	<0.0025	<0.0025
11/12/1999	<0.0025			<0.0025	<0.0025	<0.0025
12/29/1999	<0.0025			<0.0025	<0.0025	<0.0025
2/17/2000	<0.0025			<0.0025	<0.0025	<0.0025
9/13/2000	<0.0025			<0.0025	<0.0025	<0.0025
11/10/2000	<0.0025			<0.0025	<0.0025	<0.0025
1/4/2001	<0.0025			<0.0025	<0.0025	<0.0025
12/11/2001	<0.0025			<0.0025	<0.0025	<0.0025
4/4/2002	<0.0025			<0.0025	<0.0025	<0.0025
12/6/2002	<0.0025			<0.0025	<0.0025	<0.0025
6/28/2003	<0.0025			<0.0025	<0.0025	0.018 (o)
12/13/2003	<0.0025			<0.0025	<0.0025	<0.0025
5/28/2004	<0.0025			<0.0025	<0.0025	<0.0025
12/10/2004	<0.0025			<0.0025	<0.0025	0.007
6/24/2005	<0.0025			<0.0025	<0.0025	0.0072
12/13/2005	<0.0025			<0.0025	<0.0025	0.0062
7/12/2006	0.0032			<0.0025	<0.0025	0.0048
12/1/2006	0.012 (o)			<0.0025	<0.0025	0.0032
6/21/2007	<0.0025			0.0025	<0.0025	0.0037
12/15/2007	<0.0025			<0.0025	<0.0025	<0.0025
6/21/2008					<0.0025	
6/22/2008	0.0031			<0.0025		0.0025
12/6/2008				<0.0025	<0.0025	0.0025
12/7/2008	<0.0025					
7/10/2009				<0.0025		
7/11/2009	<0.0025				<0.0025	<0.0025
12/22/2009						0.0025
12/23/2009	<0.0025			<0.0025	<0.0025	
6/23/2010				<0.0025	<0.0025	<0.0025
6/24/2010	<0.0025					
1/8/2011				<0.0025	<0.0025	0.0026
1/9/2011	0.0031					
7/10/2011				<0.0025	<0.0025	<0.0025
7/11/2011	<0.0025					
1/19/2012				<0.0025	<0.0025	
1/20/2012	<0.0025					<0.0025
7/12/2012				<0.0025	<0.0025	0.002
7/13/2012	0.0015					
1/21/2013	0.0035			<0.0025	<0.0025	0.0014
7/20/2013	<0.0025			<0.0025	<0.0025	<0.0025
1/17/2014	0.0027			<0.0013 (J)	<0.0013 (J)	0.0019
7/12/2014	<0.0013 (J)			<0.0013 (J)	<0.0013 (J)	0.0026
1/15/2015				0.00086 (J)	0.00084 (J)	
1/16/2015	<0.0025					0.0021
7/15/2015	<0.0025			0.00087 (J)	0.00083 (J)	0.0023
1/16/2016	0.00059 (J)			0.0011 (J)	0.00092 (J)	0.002
6/22/2016	0.00085 (JD)			0.0009 (J)	0.0005 (J)	0.0007 (J)
8/31/2016				0.00095 (J)	0.00055 (J)	0.001 (J)
9/1/2016	0.023 (o)					
1/19/2017				0.00087 (J)	0.00041 (J)	0.00046 (J)
2/28/2017	0.00048 (J)					
7/17/2017	<0.0025					

Time Series

Constituent: Cobalt (mg/L) Analysis Run 3/3/2023 10:41 AM View: Descriptive

Plant McIntosh Client: Southern Company Data: McIntosh LF 3 CCR

	GWA-1A (bg)	GWA-1B (bg)	GWA-2B (bg)	GWA-3A (bg)	GWA-4 (bg)	GWA-5 (bg)
7/18/2017				0.001 (J)	0.0007 (J)	
7/19/2017						0.00069 (J)
9/20/2017	<0.0025			0.0011 (J)		
9/21/2017					0.00073 (J)	0.00073 (J)
1/8/2018	<0.0025					
1/9/2018				0.0011 (J)	0.0012 (J)	0.0014 (J)
3/27/2018	<0.0025			0.0011 (J)	0.00081 (J)	0.0019 (J)
7/10/2018	<0.0025			0.0012 (J)	0.00086 (J)	0.0015 (J)
10/8/2018	<0.0025		0.0051		<0.0025	<0.0025
10/9/2018				<0.0025		
1/30/2019	0.00038 (J)		0.0044	0.0014 (J)	0.00092 (J)	0.00076 (J)
3/27/2019	<0.0025					0.0012 (J)
3/28/2019			0.0046	0.0014 (J)	0.00089 (J)	
9/11/2019	0.00032 (J)					
9/12/2019			0.0023	0.0015	0.00091	0.00074
3/10/2020	0.00028 (J)		0.003	0.0019	0.0009	0.00099
4/2/2020				0.0017 (J)		
9/21/2020	0.0003 (J)			0.0016 (J)	0.00059 (J)	
9/22/2020			<0.0025			0.00064 (J)
3/23/2021	0.00028 (J)	0.00019 (J)	0.00096 (J)	0.0017 (J)		
3/24/2021					0.00069 (J)	0.00077 (J)
8/17/2021	0.00032 (J)	0.00025 (J)	0.00016 (J)	0.002 (J)	0.00096 (J)	0.00085 (J)
2/7/2022			0.00073 (J)			
2/8/2022	0.00029 (J)	0.00032 (J)		0.0019 (J)	0.00096 (J)	0.001 (J)
8/30/2022	0.00031 (J)	0.00029 (J)	0.004	0.0023 (J)	0.00097 (J)	0.0016 (J)
1/31/2023		0.00028 (J)	0.0041			
2/1/2023				0.0027	0.0012 (J)	
2/2/2023						0.0017 (J)

Time Series

Constituent: Cobalt (mg/L) Analysis Run 3/3/2023 10:41 AM View: Descriptive

Plant McIntosh Client: Southern Company Data: McIntosh LF 3 CCR

	GWA-7A (bg)	GWC-1A	GWC-2	GWC-4A	GWC-5A	GWC-6A
10/5/1999			<0.0025	<0.0025		
11/12/1999			<0.0025	<0.0025		
12/29/1999			<0.0025	<0.0025		
2/17/2000			<0.0025	<0.0025		
9/13/2000			0.01	<0.0025		
11/10/2000			<0.0025	<0.0025		
1/4/2001			<0.0025	<0.0025		
12/11/2001			<0.0025	<0.0025		
4/4/2002			<0.0025	<0.0025		
12/6/2002			<0.0025	<0.0025		
6/28/2003			<0.0025	<0.0025		
12/13/2003			<0.0025	<0.0025		
5/28/2004			<0.0025	<0.0025		
12/10/2004			0.0062	<0.0025		
6/24/2005			<0.0025	<0.0025		
12/13/2005			<0.0025	<0.0025		
7/12/2006			<0.0025	<0.0025		
12/1/2006			<0.0025	<0.0025		
6/21/2007			<0.0025	<0.0025		
12/15/2007			<0.0025	<0.0025		
6/21/2008				0.0025		
6/22/2008			<0.0025			
12/6/2008			<0.0025	<0.0025		
7/11/2009			<0.0025	<0.0025		
12/23/2009			<0.0025	<0.0025		
6/23/2010			<0.0025	<0.0025		
1/8/2011			<0.0025	<0.0025		
7/10/2011			<0.0025	<0.0025		
1/20/2012			<0.0025	<0.0025		
7/12/2012			<0.0025	<0.0025		
1/21/2013			<0.0025	<0.0025		
7/20/2013			<0.0025	<0.0025		
1/17/2014			<0.0025	<0.0025		
7/11/2014				<0.0025		
7/12/2014			<0.0013 (J)			
1/15/2015			0.00096 (J)			
1/16/2015				0.00071 (J)		
7/15/2015			0.0006 (J)	0.00064 (J)		
1/17/2016			0.00069 (J)	0.00066 (J)		
6/22/2016			0.0011 (J)	0.0009 (J)		
8/31/2016			0.0006 (J)	0.0006 (J)		
1/24/2017			0.00067 (J)			
1/25/2017				0.00047 (J)		
7/19/2017			0.00079 (J)			
7/20/2017				<0.0025		
9/21/2017			0.00077 (J)	<0.0025		
1/9/2018			0.00092 (J)	0.00048 (J)		
3/28/2018				0.00048 (J)		
3/29/2018			0.0008 (J)			
7/10/2018			0.00097 (J)	0.00084 (J)		
10/8/2018	0.0055					
10/9/2018			<0.0025	<0.0025		

Time Series

Constituent: Cobalt (mg/L) Analysis Run 3/3/2023 10:41 AM View: Descriptive
Plant McIntosh Client: Southern Company Data: McIntosh LF 3 CCR

	GWA-7A (bg)	GWC-1A	GWC-2	GWC-4A	GWC-5A	GWC-6A
1/30/2019	0.0047			0.00038 (J)		
1/31/2019			0.00092 (J)			
3/28/2019	0.0045		0.00072 (J)	<0.0025		
9/12/2019	0.0043		0.0009	0.00044 (J)		
3/11/2020	0.0056					
3/31/2020			0.00061 (J)	0.00033 (J)		
9/21/2020	0.0025					
9/22/2020			0.00092 (J)	0.00042 (J)		
3/23/2021	0.003		0.00069 (J)			0.0034
3/24/2021		0.0063		0.00037 (J)	0.0023 (J)	
8/17/2021	0.0026					
8/18/2021		0.0053	0.0011 (J)	0.00034 (J)	0.0021 (J)	0.0016 (J)
2/7/2022	0.0024 (J)					
2/8/2022			0.0013 (J)		0.002 (J)	
2/9/2022		0.0044		0.00042 (J)		0.0012 (J)
8/30/2022	0.0024 (J)	0.0044	0.0012 (J)	0.00048 (J)		
8/31/2022					0.0018 (J)	0.0012 (J)
1/31/2023	0.0023 (J)	0.0046			0.0021 (J)	0.0011 (J)
2/1/2023			0.0013 (J)	0.00047 (J)		

Time Series

Constituent: Copper (mg/L) Analysis Run 3/3/2023 10:41 AM View: Descriptive

Plant McIntosh Client: Southern Company Data: McIntosh LF 3 CCR

	GWA-1A (bg)	GWA-1B (bg)	GWA-2B (bg)	GWA-3A (bg)	GWA-4 (bg)	GWA-5 (bg)
10/5/1999	<0.002			<0.002	<0.002	<0.002
11/12/1999	<0.002			<0.002	<0.002	<0.002
12/29/1999	<0.002			<0.002	<0.002	<0.002
2/17/2000	<0.002			<0.002	<0.002	<0.002
9/13/2000	<0.002			<0.002	<0.002	<0.002
11/10/2000	<0.002			<0.002	<0.002	<0.002
1/4/2001	<0.002			<0.002	<0.002	<0.002
12/11/2001	<0.002			<0.002	<0.002	<0.002
4/4/2002	<0.002			<0.002	<0.002	<0.002
12/6/2002	<0.002			<0.002	<0.002	0.0089 (o)
6/28/2003	<0.002			<0.002	<0.002	0.019 (o)
12/13/2003	<0.002			<0.002	<0.002	0.0067 (o)
5/28/2004	0.0052			<0.002	<0.002	0.0057 (o)
12/10/2004	<0.002			<0.002	<0.002	0.0027
6/24/2005	<0.002			<0.002	<0.002	0.0038
12/13/2005	<0.002			<0.002	<0.002	<0.002
7/12/2006	0.0055			<0.002	<0.002	0.0033
12/1/2006	<0.002			<0.002	<0.002	<0.002
6/21/2007	0.0032			<0.002	<0.002	0.0035
12/15/2007	<0.002			<0.002	<0.002	<0.002
6/21/2008					<0.002	
6/22/2008	<0.002			<0.002		<0.002
12/6/2008				<0.002	<0.002	<0.002
12/7/2008	<0.002					
7/10/2009				<0.002		
7/11/2009	<0.002				<0.002	<0.002
12/22/2009						0.0025
12/23/2009	0.0025			<0.002	<0.002	
6/23/2010				<0.002	<0.002	<0.002
6/24/2010	<0.002					
1/8/2011				<0.002	<0.002	<0.002
1/9/2011	0.004					
7/10/2011				<0.002	<0.002	<0.002
7/11/2011	<0.002					
1/19/2012				<0.002	<0.002	
1/20/2012	<0.002					<0.002
7/12/2012				<0.002	<0.002	<0.002
7/13/2012	<0.002					
1/21/2013	<0.002			<0.002	<0.002	<0.002
7/20/2013	<0.002			<0.002	<0.002	<0.002
1/17/2014	<0.005 (J)			<0.002	<0.002	<0.005 (J)
7/12/2014	<0.005 (J)			<0.002	<0.002	<0.002
1/15/2015				<0.002	<0.002	
1/16/2015	<0.002					<0.002
7/15/2015	<0.002			<0.002	<0.002	<0.002
1/16/2016	<0.002			<0.002	<0.002	<0.002
6/22/2016	0.002 (JD)			0.00205 (JD)	<0.002	0.001
1/19/2017				<0.002	<0.002	<0.002
2/28/2017	<0.002					
7/17/2017	<0.002					
7/18/2017				<0.002	<0.002	
7/19/2017						<0.002

Time Series

Constituent: Copper (mg/L) Analysis Run 3/3/2023 10:41 AM View: Descriptive
 Plant McIntosh Client: Southern Company Data: McIntosh LF 3 CCR

	GWA-1A (bg)	GWA-1B (bg)	GWA-2B (bg)	GWA-3A (bg)	GWA-4 (bg)	GWA-5 (bg)
1/8/2018	<0.002					
1/9/2018				<0.002	0.0025	<0.002
7/10/2018	<0.002			<0.002	<0.002	<0.002
1/30/2019	<0.002		0.0035	<0.002	<0.002	<0.002
3/27/2019	<0.002					<0.002
3/28/2019			0.0031	<0.002	<0.002	
9/11/2019	<0.002					
9/12/2019			0.0038	0.0024	0.0022	0.0011 (J)
3/10/2020	<0.002		0.0021	0.00082 (J)	<0.002	0.0019 (J)
4/2/2020				0.0019 (J)		
9/21/2020	<0.002			<0.002	<0.002	
9/22/2020			0.00096 (J)			0.0013 (J)
3/23/2021	<0.002	0.0015 (J)	0.0011 (J)	<0.002		
3/24/2021					<0.002	0.00077 (J)
8/17/2021	<0.002	<0.002	0.0043	<0.002	<0.002	<0.002
2/7/2022			0.0012 (J)			
2/8/2022	<0.002	<0.002		0.0011 (J)	<0.002	<0.002
8/30/2022	<0.002	<0.002	0.0013 (J)	0.0029	0.0012 (J)	0.0011 (J)
1/31/2023		<0.002	<0.002			
2/1/2023				<0.002	<0.002	
2/2/2023						0.0018 (J)

Time Series

Constituent: Copper (mg/L) Analysis Run 3/3/2023 10:41 AM View: Descriptive

Plant McIntosh Client: Southern Company Data: McIntosh LF 3 CCR

	GWA-7A (bg)	GWC-1A	GWC-2	GWC-4A	GWC-5A	GWC-6A
10/5/1999			<0.002	<0.002		
11/12/1999			<0.002	<0.002		
12/29/1999			<0.002	<0.002		
2/17/2000			<0.002	<0.002		
9/13/2000			<0.002	<0.002		
11/10/2000			<0.002	<0.002		
1/4/2001			<0.002	<0.002		
12/11/2001			<0.002	<0.002		
4/4/2002			<0.002	<0.002		
12/6/2002			<0.002	<0.002		
6/28/2003			<0.002	<0.002		
12/13/2003			<0.002	<0.002		
5/28/2004			<0.002	<0.002		
12/10/2004			0.11 (o)	<0.002		
6/24/2005			<0.002	<0.002		
12/13/2005			<0.002	<0.002		
7/12/2006			<0.002	<0.002		
12/1/2006			<0.002	<0.002		
6/21/2007			<0.002	<0.002		
12/15/2007			<0.002	<0.002		
6/21/2008				<0.002		
6/22/2008			<0.002			
12/6/2008			<0.002	<0.002		
7/11/2009			<0.002	<0.002		
12/23/2009			<0.002	<0.002		
6/23/2010			<0.002	<0.002		
1/8/2011			<0.002	<0.002		
7/10/2011			<0.002	<0.002		
1/20/2012			<0.002	<0.002		
7/12/2012			<0.002	<0.002		
1/21/2013			<0.002	<0.002		
7/20/2013			<0.002	<0.002		
1/17/2014			0.0065 (o)	<0.002		
7/11/2014				<0.002		
7/12/2014			<0.002			
1/15/2015			<0.002			
1/16/2015				<0.002		
7/15/2015			<0.002	<0.002		
1/17/2016			<0.002	<0.002		
6/22/2016			0.0005 (J)	<0.002		
1/24/2017			<0.002			
1/25/2017				<0.002		
7/19/2017			<0.002			
7/20/2017				<0.002		
1/9/2018			<0.002	<0.002		
7/10/2018			<0.002	<0.002		
1/30/2019	0.0018 (J)			<0.002		
1/31/2019			<0.002			
3/28/2019	<0.002		<0.002	<0.002		
9/12/2019	0.0041		0.002	<0.002		
3/11/2020	0.0032					
3/31/2020			<0.002	<0.002		

Time Series

Constituent: Copper (mg/L) Analysis Run 3/3/2023 10:41 AM View: Descriptive
Plant McIntosh Client: Southern Company Data: McIntosh LF 3 CCR

	GWA-7A (bg)	GWC-1A	GWC-2	GWC-4A	GWC-5A	GWC-6A
9/21/2020	0.0018 (J)					
9/22/2020			<0.002	<0.002		
3/23/2021	0.0027		<0.002			<0.002
3/24/2021		0.001 (J)		<0.002	<0.002	
8/17/2021	0.0025					
8/18/2021		0.00085 (J)	<0.002	<0.002	<0.002	<0.002
2/7/2022	0.008					
2/8/2022			0.0019 (J)		<0.002	
2/9/2022		<0.002		<0.002		<0.002
8/30/2022	0.0028	0.0019 (J)	<0.002	<0.002		
8/31/2022					<0.002	<0.002
1/31/2023	<0.002	<0.002			<0.002	<0.002
2/1/2023			<0.002	<0.002		

Time Series

Constituent: Fluoride (mg/L) Analysis Run 3/3/2023 10:41 AM View: Descriptive

Plant McIntosh Client: Southern Company Data: McIntosh LF 3 CCR

	GWA-1A (bg)	GWA-1B (bg)	GWA-2B (bg)	GWA-3A (bg)	GWA-4 (bg)	GWA-5 (bg)
8/31/2016				<0.1	<0.2	0.13 (J)
9/1/2016	<0.1					
1/19/2017				<0.1	0.089 (J)	<0.082
2/28/2017	0.098 (J)					
7/17/2017	<0.1					
7/18/2017				<0.1	<0.2	
7/19/2017						<0.082
9/20/2017	<0.1			<0.1		
9/21/2017					<0.2	0.13 (J)
1/8/2018	<0.1					
1/9/2018				<0.1	<0.2	0.13 (J)
3/27/2018	<0.1			<0.1	<0.2	0.21
7/10/2018	<0.1			<0.1	<0.2	0.17 (J)
10/8/2018	<0.1		<0.1		<0.2	0.11 (J)
10/9/2018				<0.1		
1/30/2019	<0.1		<0.1	<0.1	0.029 (J)	0.089 (J)
3/27/2019	<0.1					0.1 (J)
3/28/2019			<0.1	<0.1	<0.2	
9/11/2019	<0.1					
9/12/2019			0.036 (J)	<0.1	0.035 (J)	0.052 (J)
3/10/2020	<0.1		<0.1	0.026 (J)	0.066 (J)	0.051 (J)
4/2/2020				0.051 (J)		
9/21/2020	<0.1			<0.1	0.06 (J)	
9/22/2020			0.039 (J)			0.049 (J)
3/23/2021	<0.1	0.079 (J)	<0.1	<0.1		
3/24/2021					0.12	0.08 (J)
8/17/2021	0.038 (J)	0.09 (J)	0.083 (J)	0.064 (J)	0.061 (J)	0.097 (J)
2/7/2022			0.027 (J)			
2/8/2022	<0.1	0.077 (J)		0.033 (J)	0.061 (J)	0.12
8/30/2022	<0.1	0.51	<0.1	<0.1	0.047 (J)	0.11
1/31/2023		0.13	<0.1			
2/1/2023				<0.1	0.043 (J)	
2/2/2023						0.12

Time Series

Constituent: Fluoride (mg/L) Analysis Run 3/3/2023 10:41 AM View: Descriptive

Plant McIntosh Client: Southern Company Data: McIntosh LF 3 CCR

	GWA-7A (bg)	GWC-1A	GWC-2	GWC-4A	GWC-5A	GWC-6A
8/31/2016			<0.1	<0.1		
1/24/2017			<0.1			
1/25/2017				<0.1		
7/19/2017			<0.1			
7/20/2017				<0.1		
9/21/2017			<0.1	<0.1		
1/9/2018			<0.1	<0.1		
3/28/2018				<0.1		
3/29/2018			<0.1			
7/10/2018			<0.1	<0.1		
10/8/2018	<0.1					
10/9/2018			<0.1	<0.1		
1/30/2019	<0.1			<0.1		
1/31/2019			<0.1			
3/28/2019	<0.1		<0.1	<0.1		
9/12/2019	<0.1		<0.1	<0.1		
3/11/2020	<0.1					
3/31/2020			0.043 (J)	0.028 (J)		
9/21/2020	<0.1					
9/22/2020			<0.1	<0.1		
3/23/2021	<0.1		<0.1			<0.1
3/24/2021		0.046 (J)		<0.1	<0.1	
8/17/2021	0.033 (J)					
8/18/2021		0.072 (J)	<0.1	<0.1	<0.1	0.039 (J)
2/7/2022	<0.1					
2/8/2022			<0.1		0.033 (J)	
2/9/2022		0.069 (J)		0.038 (J)		0.042 (J)
8/30/2022	<0.1	0.071 (J)	<0.1	<0.1		
8/31/2022					<0.1	<0.1
1/31/2023	<0.1	0.074 (J)			<0.1	<0.1
2/1/2023			<0.1	<0.1		

Time Series

Constituent: Lead (mg/L) Analysis Run 3/3/2023 10:41 AM View: Descriptive

Plant McIntosh Client: Southern Company Data: McIntosh LF 3 CCR

	GWA-1A (bg)	GWA-1B (bg)	GWA-2B (bg)	GWA-3A (bg)	GWA-4 (bg)	GWA-5 (bg)
10/5/1999	0.007			<0.001	<0.001	<0.0013
11/12/1999	0.0063 (o)			<0.001	<0.001	<0.0013
12/29/1999	0.016			<0.001	<0.001	<0.0013
2/17/2000	<0.001			<0.001	<0.001	<0.0013
9/13/2000	<0.001			<0.001	<0.001	<0.0013
11/10/2000	<0.001			<0.001	<0.001	<0.0013
1/4/2001	<0.001			<0.001	<0.001	<0.0013
12/11/2001	<0.001			<0.001	<0.001	<0.0013
4/4/2002	<0.001			<0.001	<0.001	<0.0013
12/6/2002	<0.001			<0.001	<0.001	0.011
6/28/2003	<0.001			<0.001	<0.001	<0.0013
12/13/2003	<0.001			<0.001	<0.001	<0.0013
5/28/2004	0.015			<0.001	<0.001	<0.0013
12/10/2004	0.01			<0.001	<0.001	<0.0013
6/24/2005	<0.001			<0.001	<0.001	<0.0013
12/13/2005	<0.001			<0.001	<0.001	<0.0013
7/12/2006	0.013			<0.001	<0.001	<0.0013
12/1/2006	<0.001			<0.001	<0.001	<0.0013
6/21/2007	<0.001			<0.001	<0.001	<0.0013
12/15/2007	<0.001			<0.001	<0.001	<0.0013
6/21/2008					<0.001	
6/22/2008	<0.001			<0.001		<0.0013
12/6/2008				<0.001	<0.001	<0.0013
12/7/2008	<0.001					
7/10/2009				<0.001		
7/11/2009	<0.001				<0.001	<0.0013
12/22/2009						<0.0013
12/23/2009	<0.001			<0.001	<0.001	
6/23/2010				<0.001	<0.001	<0.0013
6/24/2010	<0.001					
1/8/2011				<0.001	<0.001	<0.0013
1/9/2011	<0.001					
7/10/2011				<0.001	<0.001	<0.0013
7/11/2011	<0.001					
1/19/2012				<0.001	<0.001	
1/20/2012	<0.001					<0.0013
7/12/2012				<0.001	<0.001	<0.0013
7/13/2012	<0.001					
1/21/2013	<0.001			<0.001	<0.001	<0.0013
7/20/2013	<0.001			<0.001	<0.001	<0.0013
1/17/2014	<0.001			<0.001	<0.001	<0.0013
7/12/2014	<0.001			<0.001	<0.001	<0.0013
1/15/2015				<0.001	<0.001	
1/16/2015	<0.001					<0.0013
7/15/2015	<0.001			<0.001	<0.001	<0.0013
1/16/2016	<0.001			<0.001	<0.001	<0.0013
6/22/2016	0.00125 (JD)			0.00025 (JD)	0.0003 (J)	0.001 (J)
8/31/2016				<0.001	<0.001	0.00099 (J)
9/1/2016	0.082 (o)					
1/19/2017				<0.001	<0.001	0.001 (J)
2/28/2017	<0.001					
7/17/2017	<0.001					

Time Series

Constituent: Lead (mg/L) Analysis Run 3/3/2023 10:41 AM View: Descriptive

Plant McIntosh Client: Southern Company Data: McIntosh LF 3 CCR

	GWA-1A (bg)	GWA-1B (bg)	GWA-2B (bg)	GWA-3A (bg)	GWA-4 (bg)	GWA-5 (bg)
7/18/2017				<0.001	<0.001	
7/19/2017						0.00081 (J)
9/20/2017	0.00035 (J)			<0.001		
9/21/2017					0.0076	0.00086 (J)
1/8/2018	<0.001					
1/9/2018				<0.001	0.0023	0.00059 (J)
3/27/2018	<0.001			<0.001	<0.001	<0.0013
7/10/2018	<0.001			<0.001	<0.001	0.00045 (J)
10/8/2018	<0.001		<0.001		<0.001	<0.0013
10/9/2018				<0.001		
1/30/2019	0.00021 (J)		0.00028 (J)	0.00034 (J)	0.00013 (J)	0.00064 (J)
3/27/2019	<0.001					0.0012 (J)
3/28/2019			<0.001	0.00038 (J)	<0.001	
9/11/2019	<0.001					
9/12/2019			<0.001	<0.001	<0.001	0.00082 (J)
3/10/2020	0.00015 (J)		<0.001	0.00013 (J)	0.00031 (J)	0.0022
4/2/2020				0.00062 (J)		
9/21/2020	<0.001			<0.001	0.00025 (J)	
9/22/2020			<0.001			0.0012
3/23/2021	0.00017 (J)	<0.001	<0.001	0.00029 (J)		
3/24/2021					0.00021 (J)	0.00066 (J)
8/17/2021	<0.001	<0.001	0.00073 (J)	0.00015 (J)	<0.001	0.00044 (J)
2/7/2022			<0.001			
2/8/2022	<0.001	<0.001		<0.001	<0.001	0.00058 (J)
8/30/2022	<0.001	<0.001	<0.001	<0.001	<0.001	0.00064 (J)
1/31/2023		<0.001	<0.001			
2/1/2023				0.00027 (J)	<0.001	
2/2/2023						0.0013

Time Series

Constituent: Lead (mg/L) Analysis Run 3/3/2023 10:41 AM View: Descriptive

Plant McIntosh Client: Southern Company Data: McIntosh LF 3 CCR

	GWA-7A (bg)	GWC-1A	GWC-2	GWC-4A	GWC-5A	GWC-6A
10/5/1999			0.0054 (o)	<0.001		
11/12/1999			<0.001	<0.001		
12/29/1999			<0.001	<0.001		
2/17/2000			<0.001	<0.001		
9/13/2000			<0.001	0.0067 (o)		
11/10/2000			<0.001	<0.001		
1/4/2001			<0.001	<0.001		
12/11/2001			<0.001	<0.001		
4/4/2002			<0.001	<0.001		
12/6/2002			<0.001	<0.001		
6/28/2003			<0.001	<0.001		
12/13/2003			<0.001	<0.001		
5/28/2004			<0.001	<0.001		
12/10/2004			<0.001	<0.001		
6/24/2005			<0.001	<0.001		
12/13/2005			<0.001	<0.001		
7/12/2006			<0.001	<0.001		
12/1/2006			<0.001	<0.001		
6/21/2007			<0.001	<0.001		
12/15/2007			<0.001	<0.001		
6/21/2008				<0.001		
6/22/2008			<0.001			
12/6/2008			<0.001	<0.001		
7/11/2009			<0.001	<0.001		
12/23/2009			<0.001	<0.001		
6/23/2010			<0.001	<0.001		
1/8/2011			<0.001	<0.001		
7/10/2011			<0.001	<0.001		
1/20/2012			<0.001	<0.001		
7/12/2012			<0.001	<0.001		
1/21/2013			<0.001	<0.001		
7/20/2013			<0.001	<0.001		
1/17/2014			<0.001	<0.001		
7/11/2014				<0.001		
7/12/2014			<0.001			
1/15/2015			<0.001			
1/16/2015				<0.001		
7/15/2015			<0.001	<0.001		
1/17/2016			<0.001	<0.001		
6/22/2016			0.0001 (J)	<0.001		
8/31/2016			<0.001	<0.001		
1/24/2017			<0.001			
1/25/2017				<0.001 (D)		
7/19/2017			<0.001			
7/20/2017				<0.001		
9/21/2017			0.0014 (o)	<0.001		
1/9/2018			<0.001	<0.001		
3/28/2018				<0.001		
3/29/2018			<0.001			
7/10/2018			<0.001	<0.001		
10/8/2018	<0.001					
10/9/2018			<0.001	<0.001		

Time Series

Constituent: Lead (mg/L) Analysis Run 3/3/2023 10:41 AM View: Descriptive
Plant McIntosh Client: Southern Company Data: McIntosh LF 3 CCR

	GWA-7A (bg)	GWC-1A	GWC-2	GWC-4A	GWC-5A	GWC-6A
1/30/2019	<0.001			<0.001		
1/31/2019			<0.001			
3/28/2019	<0.001		<0.001	<0.001		
9/12/2019	<0.001		<0.001	<0.001		
3/11/2020	<0.001					
3/31/2020			<0.001	<0.001		
9/21/2020	<0.001					
9/22/2020			<0.001	<0.001		
3/23/2021	<0.001		<0.001			<0.001
3/24/2021		<0.001		<0.001	0.0003 (J)	
8/17/2021	<0.001					
8/18/2021		<0.001	<0.001	<0.001	0.00021 (J)	<0.001
2/7/2022	<0.001					
2/8/2022			<0.001		0.00061 (J)	
2/9/2022		<0.001		<0.001		<0.001
8/30/2022	<0.001	<0.001	<0.001	<0.001		
8/31/2022					0.00027 (J)	<0.001
1/31/2023	<0.001	<0.001			<0.001	<0.001
2/1/2023			<0.001	<0.001		

Time Series

Constituent: pH (S.U.) Analysis Run 3/3/2023 10:41 AM View: Descriptive

Plant McIntosh Client: Southern Company Data: McIntosh LF 3 CCR

	GWA-1A (bg)	GWA-1B (bg)	GWA-2B (bg)	GWA-3A (bg)	GWA-4 (bg)	GWA-5 (bg)
10/5/1999	6.63			6.42	6.51	6.3
11/12/1999	5.51			5.03	5.46	4.72
12/29/1999	5.23			4.92	5.13	4.8
2/17/2000	5.29			5.13	5.22	4.78
9/13/2000	5.41			4.85	4.86	4.58
11/10/2000	5.47			5.05	5.29	4.5
1/4/2001	5.44			5.08	5.53	4.61
12/11/2001	4.86			4.81	5.37	4.87
4/4/2002	5.1			4.92	5.32	4.96
12/6/2002	4.917 (D)			5.07 (D)	5.3 (D)	4.4 (D)
6/28/2003	4.91			4.69	4.73	3.77
12/13/2003	4.87			4.81	4.53	4.25
5/28/2004	4.98			3.93	4.22	3.9
12/10/2004	4.35			4.25	4.26	3.71
6/24/2005	4.82			4.5	4.47	3.94
12/13/2005	4.66			4.52	4.47	3.94
7/12/2006	5.49			3.59	3.68	5.56
7/11/2014	5.55					
7/12/2014				5.44	5.33	3.88
7/15/2015	5.13			4.98	4.94	4.19
1/16/2016	5.06			4.87	4.85	4.35
8/31/2016				4.92	4.79	4.53
1/19/2017				4.86	4.72	4.79
2/28/2017	5.33					
7/17/2017	5.09					
7/18/2017				5.02	4.96	
7/19/2017						4.83
9/20/2017	5.29			4.72		
9/21/2017					4.7	4.57
1/8/2018	5.26			4.92		
1/9/2018				4.83	4.91	4.4
3/27/2018	5.27			4.91	4.92	4.11
7/10/2018	5.17			4.87	4.94	4.62
10/8/2018	5.18		5.29	4.84	4.76	4.51
1/30/2019	5.17		5.08	4.88	4.94	4.72
3/27/2019	5.09					4.56
3/28/2019			4.93	4.8	4.99	
9/11/2019	5.1					
9/12/2019			5.57	4.99	4.92	4.54
3/10/2020	5.48		5.56	4.79	4.59	4.81
4/2/2020				4.75		
9/21/2020	4.95			4.69	4.6	
9/22/2020			5.83			4.99
3/23/2021	5.17	5.63	5.61	4.6		
3/24/2021					4.42	4.37
8/17/2021	5.24	5.83	5.82	4.76	4.78	4.62
2/7/2022			5.7			
2/8/2022	5.17	5.43		4.69	4.93	4.67
8/30/2022	5.01	5.86	4.9	4.71	4.72	4.51
1/31/2023		6.15	5.07			
2/1/2023				4.52	4.77	
2/2/2023						4.59

Time Series

Constituent: pH (S.U.) Analysis Run 3/3/2023 10:41 AM View: Descriptive

Plant McIntosh Client: Southern Company Data: McIntosh LF 3 CCR

	GWA-7A (bg)	GWC-1A	GWC-2	GWC-4A	GWC-5A	GWC-6A
10/5/1999			6.08	5.33		
11/12/1999			5.35	4.6		
12/29/1999			5.19	4.8		
2/17/2000			5.18	4.98		
9/13/2000			5.13	4.75		
11/10/2000			5.2	4.65		
1/4/2001			5.14	4.83		
12/11/2001			4.93	4.73		
4/4/2002			5	5.05		
12/6/2002			5.02	4.65 (D)		
6/28/2003			4.92	4		
12/13/2003			4.82	4.97		
5/28/2004			4.6	4.51		
12/10/2004			4.29	4.09		
2/5/2005			4.43			
6/24/2005			4.56	4.27		
12/13/2005			4.34	4.54		
7/12/2006			4.38	4.57		
7/11/2014				4.64		
7/12/2014			5.68			
7/15/2015			5.22	4.67		
1/17/2016			6.07			
8/31/2016			5.49	4.89		
1/24/2017			5.25			
1/25/2017				4.73		
7/19/2017			5.54			
7/20/2017				4.96		
9/21/2017			5.19	4.78		
1/9/2018			4.97	4.79		
3/28/2018				4.44		
3/29/2018			5.15			
7/10/2018			5.37	4.88		
10/8/2018	5.79					
10/9/2018			5.04	4.85		
1/29/2019				4.7		
1/30/2019	5.15			4.52		
1/31/2019			5.38			
3/28/2019	5.62		5.38	4.68		
9/12/2019	5.1		5.14	4.89		
3/11/2020	5.05					
3/31/2020			5.64	4.66		
9/21/2020	5.35					
9/22/2020			5.04	4.92		
3/23/2021	5.01		5.61			5.31
3/24/2021		4.38		4.59	5.42	
8/17/2021	5.51					
8/18/2021		4.59	4.98	4.76	5.17	5.26
2/7/2022	5.29					
2/8/2022			4.79		5.2	
2/9/2022		4.53		4.82		5.31
8/30/2022	5	4.43	4.96	4.71		
8/31/2022				4.97		5.07

Time Series

Constituent: pH (S.U.) Analysis Run 3/3/2023 10:41 AM View: Descriptive
Plant McIntosh Client: Southern Company Data: McIntosh LF 3 CCR

	GWA-7A (bg)	GWC-1A	GWC-2	GWC-4A	GWC-5A	GWC-6A
1/31/2023	5	4.43			4.85	5.32
2/1/2023			4.83	4.6		

Time Series

Constituent: Sulfate (mg/L) Analysis Run 3/3/2023 10:41 AM View: Descriptive

Plant McIntosh Client: Southern Company Data: McIntosh LF 3 CCR

	GWA-1A (bg)	GWA-1B (bg)	GWA-2B (bg)	GWA-3A (bg)	GWA-4 (bg)	GWA-5 (bg)
8/31/2016				<1	7	21
9/1/2016	<1					
1/19/2017				<1	6.3	11
2/28/2017	2.7					
7/17/2017	<1					
7/18/2017				<1	4.7	
7/19/2017						12
9/20/2017	<1			<1		
9/21/2017					4.5	15
1/8/2018	<1					
1/9/2018				<1	3	25
3/27/2018	<1			<1	3.8	31
7/10/2018	<1			<1	3.4	19
10/8/2018	<1		73		3.4	17
10/9/2018				<1		
1/30/2019	1.2		74	0.41 (J)	3.5	15
3/27/2019	<1					20
3/28/2019			71	0.44 (J)	3	
9/11/2019	<1					
9/12/2019			59	0.69 (J)	3.7	10
3/10/2020	1.5		57	3	7.2	15
4/2/2020				<1		
9/21/2020	<1			<1	5	
9/22/2020			52			12
3/23/2021	<1	6.8	49	<1		
3/24/2021					7	16
8/17/2021	<1	5.2	54	<1	5	11
2/7/2022			42			
2/8/2022	<1	2.8		<1	5.9	13
8/30/2022	<1	1.6	74	<1	3.5	13
1/31/2023		1	71			
2/1/2023				<1	3.1	
2/2/2023						15

Time Series

Constituent: Sulfate (mg/L) Analysis Run 3/3/2023 10:41 AM View: Descriptive

Plant McIntosh Client: Southern Company Data: McIntosh LF 3 CCR

	GWA-7A (bg)	GWC-1A	GWC-2	GWC-4A	GWC-5A	GWC-6A
8/31/2016			<1	1.7		
1/24/2017			<1			
1/25/2017				1.8		
7/19/2017			<1			
7/20/2017				0.83 (J)		
9/21/2017			<1	1.1		
1/9/2018			<1	0.79 (J)		
3/28/2018				0.79 (J)		
3/29/2018			<1			
7/10/2018			<1	0.76 (J)		
10/8/2018	75					
10/9/2018			<1	<1		
1/30/2019	85			0.9 (J)		
1/31/2019			0.57 (J)			
3/28/2019	85		<1	1.1		
9/12/2019	81		0.43 (J)	1.1		
3/11/2020	110					
3/31/2020			1	2.5		
9/21/2020	49					
9/22/2020			<1	0.76 (J)		
3/23/2021	88		0.8 (J)			10
3/24/2021		1		<1	26	
8/17/2021	84					
8/18/2021		0.84 (J)	1.2	<1	10	8.3
2/7/2022	54					
2/8/2022			2.7		5.9	
2/9/2022		<1		<1		5.4
8/30/2022	73	<1	1.1	<1		
8/31/2022					<1	3.5
1/31/2023	74	<1			<1	3.3
2/1/2023			1.3	<1		

Time Series

Constituent: Total Dissolved Solids (mg/L) Analysis Run 3/3/2023 10:41 AM View: Descriptive
 Plant McIntosh Client: Southern Company Data: McIntosh LF 3 CCR

	GWA-1A (bg)	GWA-1B (bg)	GWA-2B (bg)	GWA-3A (bg)	GWA-4 (bg)	GWA-5 (bg)
8/31/2016				42 (D)	14 (D)	66 (D)
9/1/2016	2200 (o)					
1/19/2017				52 (D)	34 (D)	48 (D)
2/28/2017	74 (D)					
7/17/2017	50					
7/18/2017				32	26	
7/19/2017						48
9/20/2017	26			16		
9/21/2017					24	76
1/8/2018	16					
1/9/2018				4 (J)	16	18
3/27/2018	40			30	<5	48
7/10/2018	90			30	14	76
10/8/2018	70		170		36	8
10/9/2018				56		
1/30/2019	82		140	41	40	67
3/27/2019	66					70
3/28/2019			150	36	24	
9/11/2019	53					
9/12/2019			89	<10	10	20
3/10/2020	67		130	49	39	67
4/2/2020				61		
9/21/2020	31			61	31	
9/22/2020			110			53
3/23/2021	47	63	130	76		
3/24/2021					36	60
8/17/2021	36	43	130	83	33	50
2/7/2022			120			
2/8/2022	45	39		62	29	57
8/30/2022	55	79	150	87	40	64
1/31/2023		76	140			
2/1/2023				85	34	
2/2/2023						65

Time Series

Constituent: Total Dissolved Solids (mg/L) Analysis Run 3/3/2023 10:41 AM View: Descriptive
 Plant McIntosh Client: Southern Company Data: McIntosh LF 3 CCR

	GWA-7A (bg)	GWC-1A	GWC-2	GWC-4A	GWC-5A	GWC-6A
8/31/2016			42 (D)	36 (D)		
1/24/2017			28 (D)			
1/25/2017				58 (D)		
7/19/2017			42			
7/20/2017				16		
9/21/2017			46	24		
1/9/2018			10	8		
3/28/2018				26		
3/29/2018			52			
7/10/2018			38	26		
10/8/2018	180					
10/9/2018			52	16		
1/30/2019	180			37		
1/31/2019			45			
3/28/2019	170		45	28		
9/12/2019	140		28	<10		
3/11/2020	180					
3/31/2020			50	52		
9/21/2020	130					
9/22/2020			30	36		
3/23/2021	180		56			71
3/24/2021		59		27	97	
8/17/2021	160					
8/18/2021		66	37	29	41	61
2/7/2022	150					
2/8/2022			30		48	
2/9/2022		62		22		100
8/30/2022	160	65	38	21		
8/31/2022					27	73
1/31/2023	150	57			25	71
2/1/2023			36	18		

Time Series

Constituent: Vanadium (mg/L) Analysis Run 3/3/2023 10:41 AM View: Descriptive

Plant McIntosh Client: Southern Company Data: McIntosh LF 3 CCR

	GWA-1A (bg)	GWA-1B (bg)	GWA-2B (bg)	GWA-3A (bg)	GWA-4 (bg)	GWA-5 (bg)
10/5/1999	0.02			<0.002	<0.002	<0.0082
11/12/1999	0.027			<0.002	<0.002	<0.0082
12/29/1999	0.055			<0.002	<0.002	<0.0082
2/17/2000	0.042			<0.002	<0.002	<0.0082
9/13/2000	<0.001			<0.002	<0.002	<0.0082
11/10/2000	0.014			<0.002	<0.002	<0.0082
1/4/2001	<0.001			<0.002	<0.002	<0.0082
12/11/2001	<0.001			<0.002	<0.002	<0.0082
4/4/2002	<0.001			<0.002	<0.002	<0.0082
12/6/2002	<0.001			<0.002	<0.002	0.03
6/28/2003	<0.001			<0.002	<0.002	<0.0082
12/13/2003	<0.001			<0.002	<0.002	<0.0082
5/28/2004	0.017			<0.002	<0.002	<0.0082
12/10/2004	0.0082			<0.002	<0.002	<0.0082
6/24/2005	<0.001			<0.002	<0.002	<0.0082
12/13/2005	<0.001			<0.002	<0.002	<0.0082
7/12/2006	0.023			<0.002	<0.002	<0.0082
12/1/2006	0.0081			<0.002	<0.002	<0.0082
6/21/2007	0.009			0.0038	<0.002	0.07 (a)
12/15/2007	0.0056			<0.002	<0.002	<0.0082
6/21/2008					<0.002	
6/22/2008	0.013			<0.002		0.0026
12/6/2008				<0.002	<0.002	<0.0082
12/7/2008	0.0027					
7/10/2009				<0.002		
7/11/2009	0.0032				<0.002	<0.0082
12/22/2009						<0.0082
12/23/2009	0.0093			<0.002	<0.002	
6/23/2010				<0.002	<0.002	<0.0082
6/24/2010	0.0033					
1/8/2011				<0.002	<0.002	<0.0082
1/9/2011	<0.001					
7/10/2011				<0.002	<0.002	<0.0082
7/11/2011	<0.001					
1/19/2012				<0.002	<0.002	
1/20/2012	<0.001					<0.0082
7/12/2012				<0.002	<0.002	<0.0082
7/13/2012	0.011					
1/21/2013	0.028			<0.002	<0.002	<0.0082
7/20/2013	<0.001			<0.002	<0.002	<0.0082
1/17/2014	0.019			<0.002	<0.002	<0.0082
7/12/2014	<0.005 (J)			<0.002	<0.002	<0.0082
1/15/2015				<0.002	<0.002	
1/16/2015	0.0012 (J)					0.0011 (J)
7/15/2015	<0.001			<0.002	<0.002	0.0016 (J)
1/16/2016	0.0015 (J)			0.0011 (J)	0.00082 (J)	<0.0082
6/22/2016	0.0081 (JD)			<0.002	<0.002	0.0018 (J)
1/19/2017				<0.002	0.0025	0.0033
2/28/2017	0.0019 (J)					
7/17/2017	<0.001					
7/18/2017				<0.002	<0.002	
7/19/2017						0.0045

Time Series

Constituent: Vanadium (mg/L) Analysis Run 3/3/2023 10:41 AM View: Descriptive
Plant McIntosh Client: Southern Company Data: McIntosh LF 3 CCR

	GWA-1A (bg)	GWA-1B (bg)	GWA-2B (bg)	GWA-3A (bg)	GWA-4 (bg)	GWA-5 (bg)
1/8/2018	<0.001					
1/9/2018				<0.002	0.0072	0.0027
7/10/2018	<0.001			<0.002	<0.002	<0.0082
1/30/2019	<0.001		<0.002	<0.002	<0.002	0.0019 (J)
3/27/2019	<0.001					<0.0082
3/28/2019			<0.002	<0.002	<0.002	
9/11/2019	0.0014					
9/12/2019			0.0021	0.002	0.0017	0.004
3/10/2020	<0.001		<0.002	<0.002	<0.002	0.01
4/2/2020				0.0013		
9/21/2020	<0.001			<0.002	0.0012	
9/22/2020			<0.002			0.0056
3/23/2021	<0.001	<0.002	<0.002	<0.002		
3/24/2021					<0.002	0.0018
8/17/2021	<0.001	<0.002	<0.002	<0.002	<0.002	0.0018
2/7/2022			<0.002			
2/8/2022	<0.001	<0.002		<0.002	<0.002	0.0023
8/30/2022	0.0019	0.0019	0.0016	<0.002	<0.002	0.0028
1/31/2023		<0.002	<0.002			
2/1/2023				<0.002	<0.002	
2/2/2023						0.0041

Time Series

Constituent: Vanadium (mg/L) Analysis Run 3/3/2023 10:41 AM View: Descriptive

Plant McIntosh Client: Southern Company Data: McIntosh LF 3 CCR

	GWA-7A (bg)	GWC-1A	GWC-2	GWC-4A	GWC-5A	GWC-6A
10/5/1999			0.015 (o)	<0.002		
11/12/1999			<0.002	<0.002		
12/29/1999			<0.002	<0.002		
2/17/2000			<0.002	<0.002		
9/13/2000			<0.002	<0.002		
11/10/2000			<0.002	<0.002		
1/4/2001			<0.002	<0.002		
12/11/2001			<0.002	<0.002		
4/4/2002			<0.002	<0.002		
12/6/2002			<0.002	<0.002		
6/28/2003			<0.002	<0.002		
12/13/2003			<0.002	<0.002		
5/28/2004			<0.002	<0.002		
12/10/2004			<0.002	<0.002		
6/24/2005			<0.002	<0.002		
12/13/2005			<0.002	<0.002		
7/12/2006			<0.002	<0.002		
12/1/2006			<0.002	<0.002		
6/21/2007			<0.002	<0.002		
12/15/2007			<0.002	<0.002		
6/21/2008				<0.002		
6/22/2008			<0.002			
12/6/2008			<0.002	<0.002		
7/11/2009			<0.002	<0.002		
12/23/2009			<0.002	<0.002		
6/23/2010			<0.002	<0.002		
1/8/2011			<0.002	<0.002		
7/10/2011			<0.002	<0.002		
1/20/2012			<0.002	<0.002		
7/12/2012			<0.002	<0.002		
1/21/2013			<0.002	<0.002		
7/20/2013			<0.002	<0.002		
1/17/2014			<0.002	<0.002		
7/11/2014				<0.002		
7/12/2014			<0.002			
1/15/2015			<0.002			
1/16/2015				<0.002		
7/15/2015			<0.002	<0.002		
1/17/2016			<0.002	<0.002		
6/22/2016			0.0019 (J)	<0.002		
1/24/2017			0.0062			
1/25/2017				<0.002		
7/19/2017			0.0015 (J)			
7/20/2017				<0.002		
1/9/2018			<0.002	<0.002		
7/10/2018			<0.002	<0.002		
1/30/2019	<0.002			<0.002		
1/31/2019			<0.002			
3/28/2019	<0.002		<0.002	<0.002		
9/12/2019	0.002		0.0018	0.0021		
3/11/2020	<0.002					
3/31/2020			<0.002	<0.002		

Time Series

Constituent: Vanadium (mg/L) Analysis Run 3/3/2023 10:41 AM View: Descriptive
Plant McIntosh Client: Southern Company Data: McIntosh LF 3 CCR

	GWA-7A (bg)	GWC-1A	GWC-2	GWC-4A	GWC-5A	GWC-6A
9/21/2020	<0.002					
9/22/2020			<0.002	<0.002		
3/23/2021	<0.002		<0.002			<0.002
3/24/2021		<0.002		<0.002	<0.002	
8/17/2021	<0.002					
8/18/2021		<0.002	<0.002	<0.002	<0.002	<0.002
2/7/2022	0.0011					
2/8/2022			<0.002		<0.002	
2/9/2022		<0.002		<0.002		<0.002
8/30/2022	0.0016	0.00087 (J)	<0.002	<0.002		
8/31/2022					<0.002	<0.002
1/31/2023	<0.002	<0.002			<0.002	<0.002
2/1/2023			<0.002	<0.002		

Time Series

Constituent: Zinc (mg/L) Analysis Run 3/3/2023 10:41 AM View: Descriptive

Plant McIntosh Client: Southern Company Data: McIntosh LF 3 CCR

	GWA-1A (bg)	GWA-1B (bg)	GWA-2B (bg)	GWA-3A (bg)	GWA-4 (bg)	GWA-5 (bg)
10/5/1999	0.043			0.023	0.039	<0.02
11/12/1999	0.035			<0.02	0.025	<0.02
12/29/1999	0.058			<0.02	0.023	<0.02
2/17/2000	0.051			<0.02	<0.02	<0.02
9/13/2000	<0.005			<0.02	0.035	0.021
11/10/2000	<0.005			<0.02	0.023	<0.02
1/4/2001	<0.005			<0.02	0.027	<0.02
12/11/2001	<0.005			<0.02	0.036	<0.02
4/4/2002	<0.005			<0.02	0.038	<0.02
12/6/2002	<0.005			<0.02	0.033	0.06
6/28/2003	<0.005			<0.02	0.018	0.19 (o)
12/13/2003	<0.005			<0.02	0.013	0.067
5/28/2004	0.034			<0.02	<0.02	0.068
12/10/2004	0.021			<0.02	<0.02	0.039
6/24/2005	<0.005			<0.02	<0.02	0.033
12/13/2005	0.013			<0.02	0.011	0.039
7/12/2006	0.074			0.0047	0.0055	0.022
12/1/2006	0.048			0.065	0.0052	0.018
6/21/2007	0.067			0.008	0.0062	0.058
12/15/2007	0.053			0.0043	0.0055	0.0072
6/21/2008					0.011	
6/22/2008	0.024			0.0062		0.011
12/6/2008				0.051	0.008	0.011
12/7/2008	0.0087					
7/10/2009				0.0043		
7/11/2009	0.045				0.011	0.013
12/22/2009						0.013
12/23/2009	0.054			0.0039	0.0051	
6/23/2010				<0.02	0.0031	0.0084
6/24/2010	0.0065					
1/8/2011				0.0037	0.0035	0.0089
1/9/2011	0.022					
7/10/2011				0.0047	0.0081	0.0084
7/11/2011	0.0032					
1/19/2012				0.0045	0.017	
1/20/2012	0.0089					0.0094
7/12/2012				0.0033	0.01	0.0098
7/13/2012	0.012					
1/21/2013	0.024			0.0038	0.013	0.007
7/20/2013	0.0068			0.004	<0.02	0.0074
1/17/2014	0.02			0.005	0.0066	0.0092
7/12/2014	0.0055			0.004	0.0054	0.013
1/15/2015				0.0056	0.0076	
1/16/2015	0.0043					0.0081
7/15/2015	0.0026			0.0034	0.0053	0.009
1/16/2016	0.0035			0.0038	0.0048	0.007
6/22/2016	0.00805 (JD)			0.00575 (JD)	0.0038 (J)	0.0091 (J)
1/19/2017				<0.02	<0.02	0.0065 (J)
2/28/2017	<0.005					
7/17/2017	<0.005					
7/18/2017				<0.02	<0.02	
7/19/2017						0.0099 (J)

Time Series

Constituent: Zinc (mg/L) Analysis Run 3/3/2023 10:41 AM View: Descriptive
Plant McIntosh Client: Southern Company Data: McIntosh LF 3 CCR

	GWA-1A (bg)	GWA-1B (bg)	GWA-2B (bg)	GWA-3A (bg)	GWA-4 (bg)	GWA-5 (bg)
1/8/2018	<0.005					
1/9/2018				<0.02	0.0072 (J)	0.014 (J)
7/10/2018	<0.005			<0.02	<0.02	0.0089 (J)
1/30/2019	<0.005		0.013 (J)	0.0058 (J)	0.006 (J)	0.0057 (J)
3/27/2019	<0.005					0.01 (J)
3/28/2019			0.014 (J)	<0.02	<0.02	
9/11/2019	0.0062					
9/12/2019			0.0075	0.0081	0.0073	0.0074
3/10/2020	<0.005		0.0061	0.0079	0.0079	0.0071
4/2/2020				0.011		
9/21/2020	<0.005			0.0055	0.013	
9/22/2020			0.0066			0.039
3/23/2021	<0.005	0.0098	0.0066	0.0092		
3/24/2021					0.0058	0.0085
8/17/2021	0.048	0.024	0.026	0.014	0.029	0.024
2/7/2022			0.0046 (J)			
2/8/2022	0.0031 (J)	0.0048 (J)		0.013	0.007	0.007
8/30/2022	<0.005	0.003 (J)	0.014	0.012	0.01	0.013
1/31/2023		<0.005	0.012			
2/1/2023				0.0071	0.0089	
2/2/2023						0.0095

Time Series

Constituent: Zinc (mg/L) Analysis Run 3/3/2023 10:41 AM View: Descriptive

Plant McIntosh Client: Southern Company Data: McIntosh LF 3 CCR

	GWA-7A (bg)	GWC-1A	GWC-2	GWC-4A	GWC-5A	GWC-6A
10/5/1999			0.028	<0.005		
11/12/1999			<0.02	<0.005		
12/29/1999			0.022	<0.005		
2/17/2000			0.021	<0.005		
9/13/2000			<0.02	0.036 (o)		
11/10/2000			<0.02	<0.005		
1/4/2001			<0.02	<0.005		
12/11/2001			<0.02	<0.005		
4/4/2002			0.069 (o)	<0.005		
12/6/2002			0.012	0.012		
6/28/2003			0.011	<0.005		
12/13/2003			<0.02	<0.005		
5/28/2004			<0.02	<0.005		
12/10/2004			0.027	<0.005		
6/24/2005			<0.02	<0.005		
12/13/2005			0.011	<0.005		
7/12/2006			0.0064	<0.005		
12/1/2006			0.0077	0.098 (o)		
6/21/2007			0.0082	0.0043		
12/15/2007			0.0063	0.0057		
6/21/2008				0.0064		
6/22/2008			0.0074			
12/6/2008			0.0066	0.0052		
7/11/2009			0.0054	0.0049		
12/23/2009			0.0046	0.005		
6/23/2010			0.0041	0.0044		
1/8/2011			0.019	0.0036		
7/10/2011			0.005	0.0046		
1/20/2012			0.007	0.0045		
7/12/2012			0.0045	0.0041		
1/21/2013			0.0045	0.0038		
7/20/2013			<0.02	0.0047		
1/17/2014			0.0075	0.0051		
7/11/2014				0.0066		
7/12/2014			0.0051			
1/15/2015			0.0054			
1/16/2015				0.0046		
7/15/2015			0.0049	0.0036		
1/17/2016			0.0051	0.004		
6/22/2016			0.0087 (J)	0.0053 (J)		
1/24/2017			0.0071 (J)			
1/25/2017				<0.005		
7/19/2017			<0.02			
7/20/2017				<0.005		
1/9/2018			0.0079 (J)	<0.005		
7/10/2018			0.0067 (J)	<0.005		
1/30/2019	0.011 (J)			0.0042 (J)		
1/31/2019			<0.02			
3/28/2019	0.0086 (J)		0.0069 (J)	<0.005		
9/12/2019	0.014		0.0089	0.0093		
3/11/2020	0.0099					
3/31/2020			0.0065	<0.005		

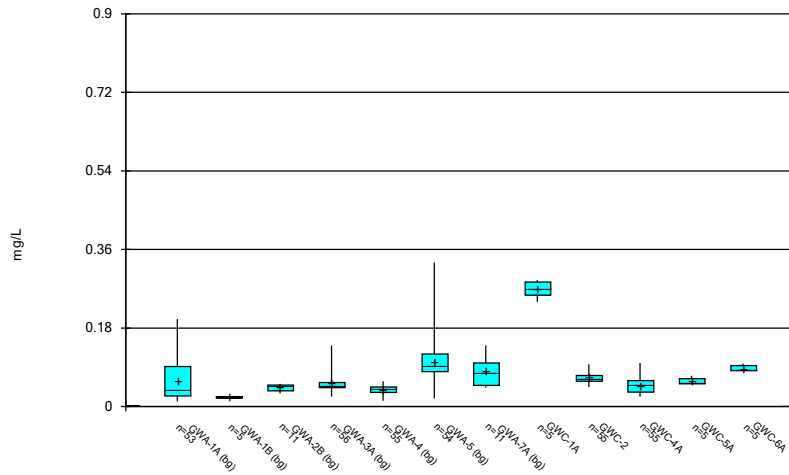
Time Series

Constituent: Zinc (mg/L) Analysis Run 3/3/2023 10:41 AM View: Descriptive
Plant McIntosh Client: Southern Company Data: McIntosh LF 3 CCR

	GWA-7A (bg)	GWC-1A	GWC-2	GWC-4A	GWC-5A	GWC-6A
9/21/2020	0.007					
9/22/2020			0.029	0.017		
3/23/2021	0.0096		0.0085			0.0091
3/24/2021		0.02		0.01	0.013	
8/17/2021	0.052					
8/18/2021		0.15	0.0081	0.012	0.021	0.072
2/7/2022	0.0098					
2/8/2022			0.0078		0.011	
2/9/2022		0.023		0.0039 (J)		0.0069
8/30/2022	0.0089	0.02	0.012	0.0046 (J)		
8/31/2022					0.014	0.0049 (J)
1/31/2023	0.0082	0.018			0.0088	<0.005
2/1/2023			0.0062	<0.005		

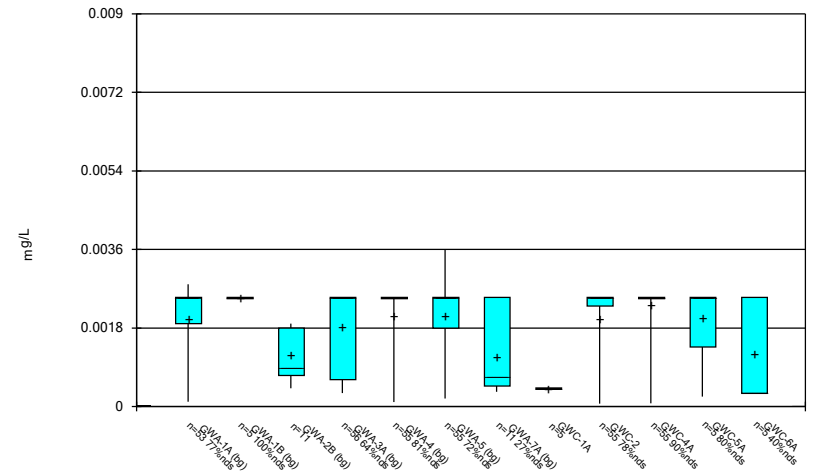
FIGURE B.

Box & Whiskers Plot



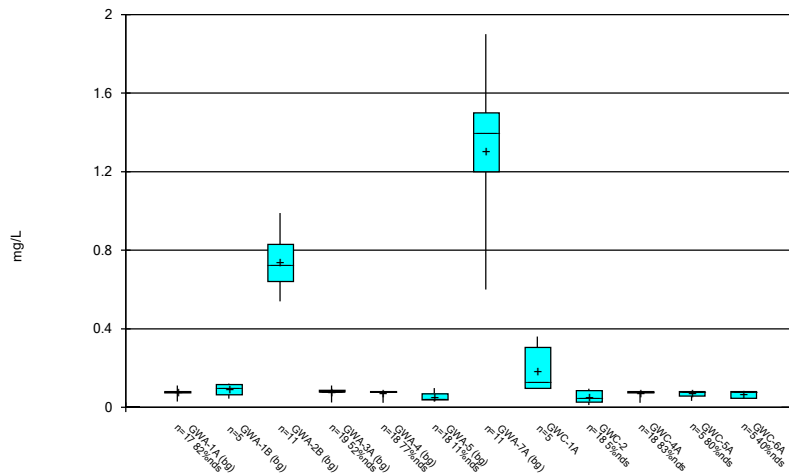
Constituent: Barium Analysis Run 3/3/2023 10:43 AM View: Descriptive
Plant McIntosh Client: Southern Company Data: McIntosh LF 3 CCR

Box & Whiskers Plot



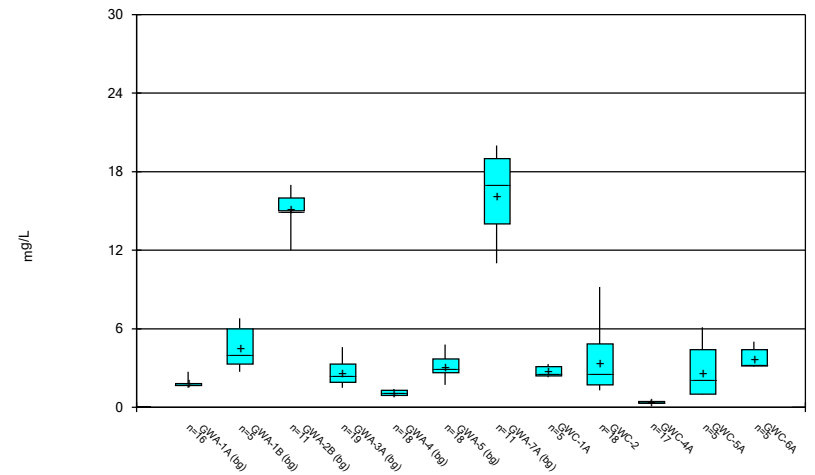
Constituent: Beryllium Analysis Run 3/3/2023 10:43 AM View: Descriptive
Plant McIntosh Client: Southern Company Data: McIntosh LF 3 CCR

Box & Whiskers Plot



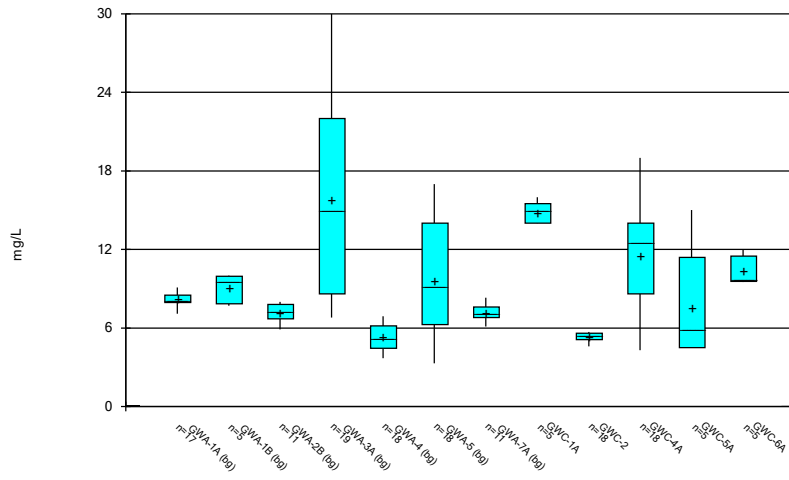
Constituent: Boron Analysis Run 3/3/2023 10:43 AM View: Descriptive
Plant McIntosh Client: Southern Company Data: McIntosh LF 3 CCR

Box & Whiskers Plot



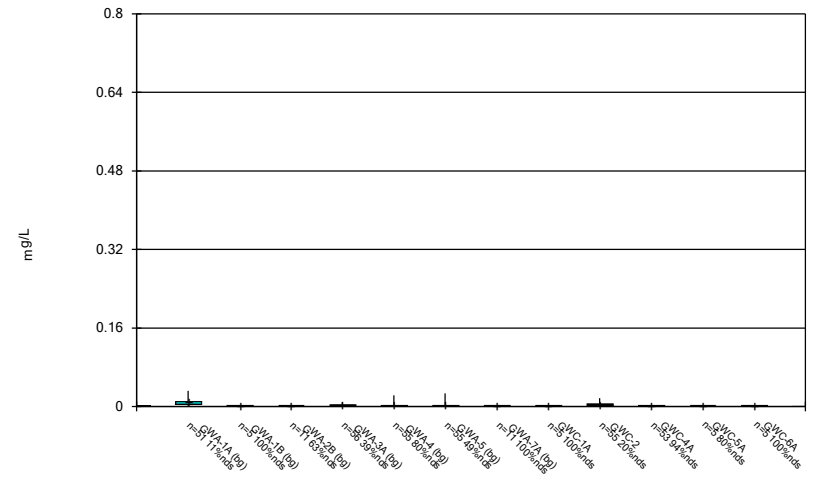
Constituent: Calcium Analysis Run 3/3/2023 10:43 AM View: Descriptive
Plant McIntosh Client: Southern Company Data: McIntosh LF 3 CCR

Box & Whiskers Plot



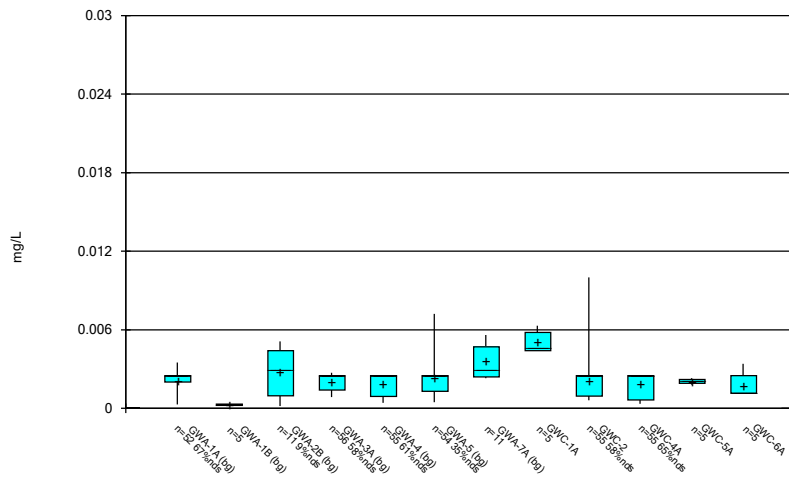
Constituent: Chloride Analysis Run 3/3/2023 10:43 AM View: Descriptive
 Plant McIntosh Client: Southern Company Data: McIntosh LF 3 CCR

Box & Whiskers Plot



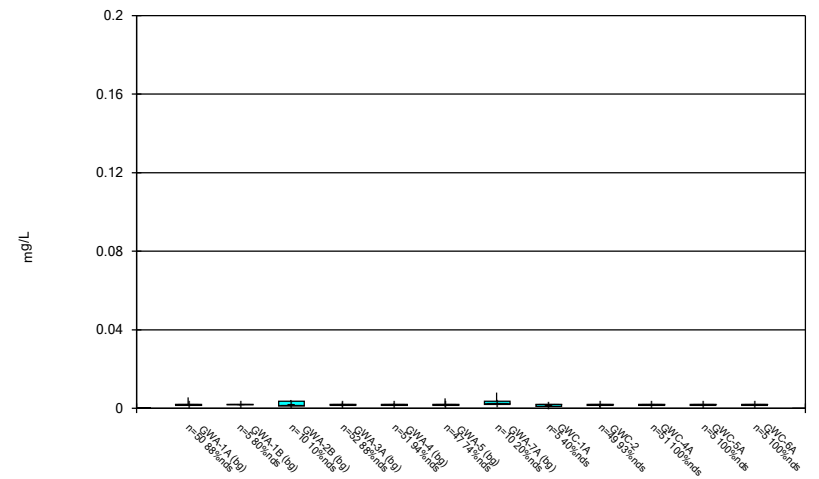
Constituent: Chromium Analysis Run 3/3/2023 10:43 AM View: Descriptive
 Plant McIntosh Client: Southern Company Data: McIntosh LF 3 CCR

Box & Whiskers Plot



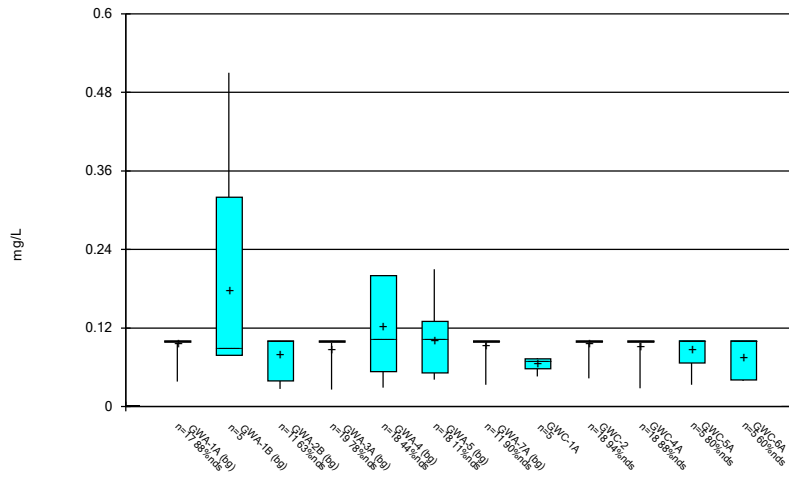
Constituent: Cobalt Analysis Run 3/3/2023 10:43 AM View: Descriptive
 Plant McIntosh Client: Southern Company Data: McIntosh LF 3 CCR

Box & Whiskers Plot



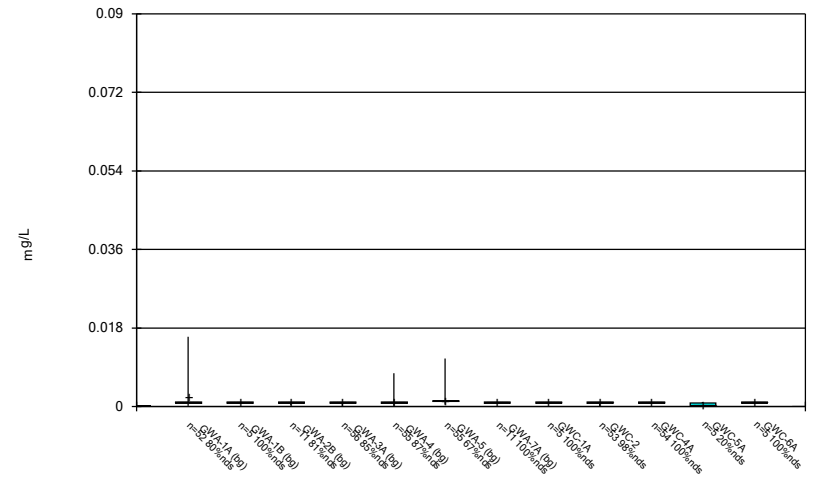
Constituent: Copper Analysis Run 3/3/2023 10:43 AM View: Descriptive
 Plant McIntosh Client: Southern Company Data: McIntosh LF 3 CCR

Box & Whiskers Plot



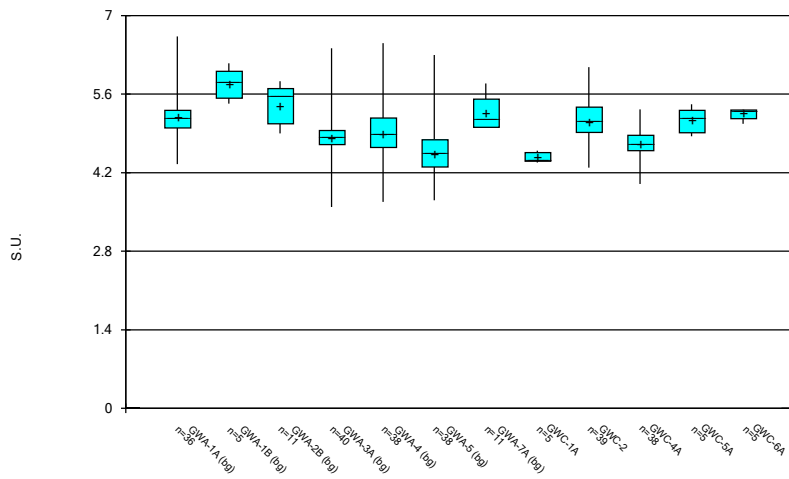
Constituent: Fluoride Analysis Run 3/3/2023 10:43 AM View: Descriptive
Plant McIntosh Client: Southern Company Data: McIntosh LF 3 CCR

Box & Whiskers Plot



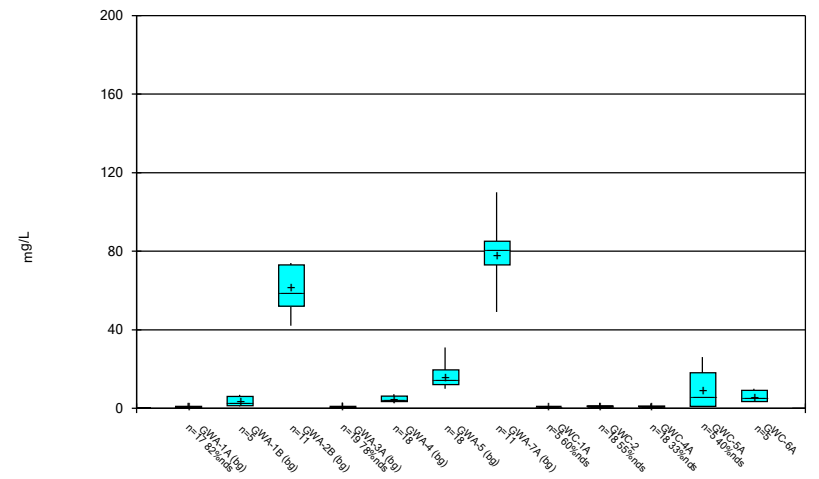
Constituent: Lead Analysis Run 3/3/2023 10:43 AM View: Descriptive
Plant McIntosh Client: Southern Company Data: McIntosh LF 3 CCR

Box & Whiskers Plot



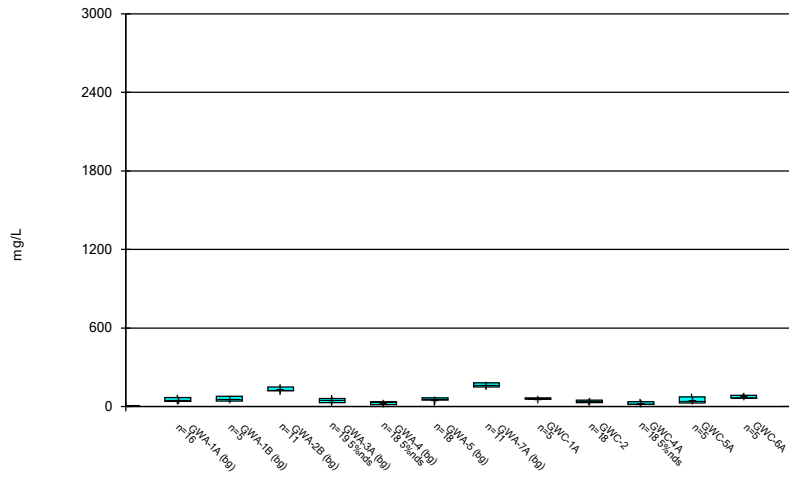
Constituent: pH Analysis Run 3/3/2023 10:43 AM View: Descriptive
Plant McIntosh Client: Southern Company Data: McIntosh LF 3 CCR

Box & Whiskers Plot



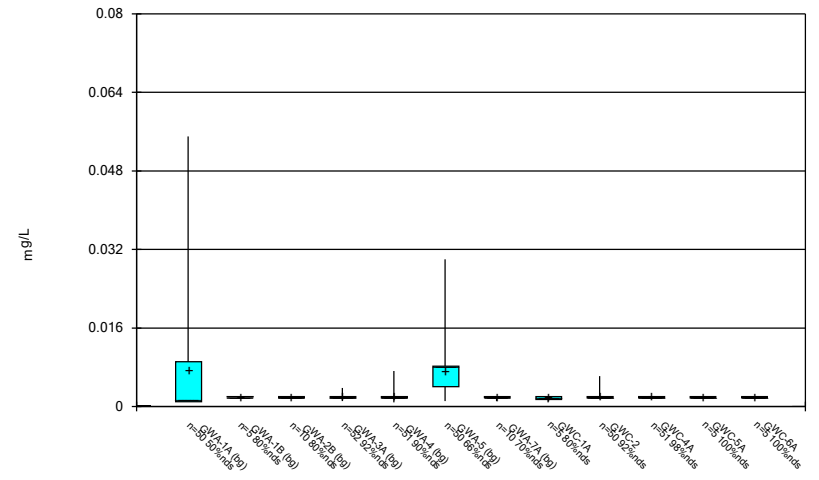
Constituent: Sulfate Analysis Run 3/3/2023 10:43 AM View: Descriptive
Plant McIntosh Client: Southern Company Data: McIntosh LF 3 CCR

Box & Whiskers Plot



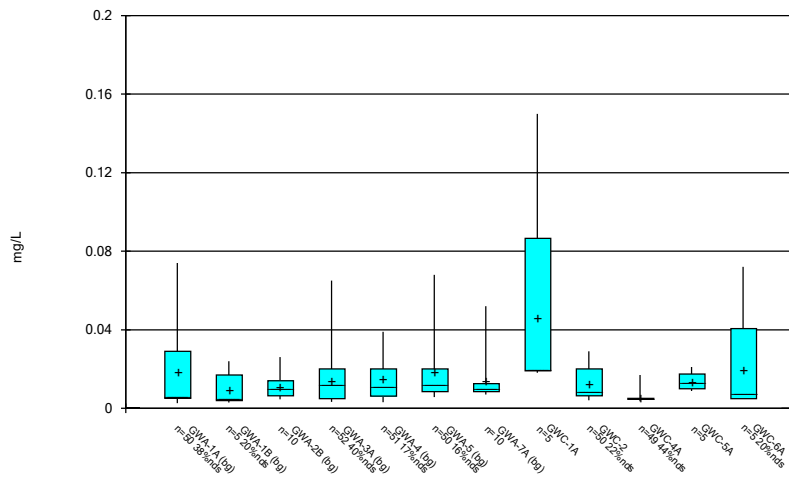
Constituent: Total Dissolved Solids Analysis Run 3/3/2023 10:43 AM View: Descriptive
 Plant McIntosh Client: Southern Company Data: McIntosh LF 3 CCR

Box & Whiskers Plot



Constituent: Vanadium Analysis Run 3/3/2023 10:43 AM View: Descriptive
 Plant McIntosh Client: Southern Company Data: McIntosh LF 3 CCR

Box & Whiskers Plot



Constituent: Zinc Analysis Run 3/3/2023 10:43 AM View: Descriptive
 Plant McIntosh Client: Southern Company Data: McIntosh LF 3 CCR

FIGURE C.

Outlier Summary

Plant McIntosh Client: Southern Company Data: McIntosh LF 3 CCR Printed 3/3/2023, 10:42 AM

GWC-4A Zinc (mg/L)

10/5/1999	
11/12/1999	
12/29/1999	
2/17/2000	
9/13/2000	0.036 (o)
4/4/2002	
12/6/2002	
6/28/2003	
12/13/2003	
5/28/2004	
12/10/2004	
12/1/2006	0.098 (o)
6/21/2007	
1/17/2014	
9/1/2016	
9/21/2017	
7/10/2018	

FIGURE D.

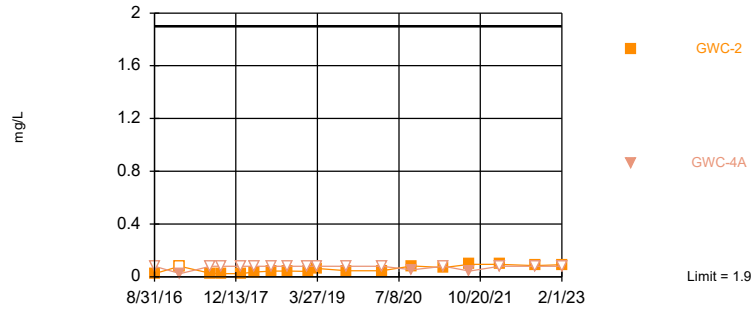
Interwell Prediction Limits Appendix III - All Results (No Significant)

Plant McIntosh Client: Southern Company Data: McIntosh LF 3 CCR Printed 3/3/2023, 10:25 AM

Constituent	Well	Upper Lim	Lower Lim	Date	Observ.	Sig.	Bg N	Bg Mean	Std. Dev.	%NDs	ND Adj.	Transform	Alpha	Method
Boron (mg/L)	GWC-2	1.9	n/a	2/1/2023	0.091	No	99	n/a	n/a	40.4	n/a	n/a	0.0001978	NP Inter (normality) 1 of 2
Boron (mg/L)	GWC-4A	1.9	n/a	2/1/2023	0.08ND	No	99	n/a	n/a	40.4	n/a	n/a	0.0001978	NP Inter (normality) 1 of 2
Calcium (mg/L)	GWC-2	20	n/a	2/1/2023	1.3	No	98	n/a	n/a	0	n/a	n/a	0.0002022	NP Inter (normality) 1 of 2
Calcium (mg/L)	GWC-4A	20	n/a	2/1/2023	0.34J	No	98	n/a	n/a	0	n/a	n/a	0.0002022	NP Inter (normality) 1 of 2
Chloride (mg/L)	GWC-2	30	n/a	2/1/2023	4.8	No	99	n/a	n/a	0	n/a	n/a	0.0001978	NP Inter (normality) 1 of 2
Chloride (mg/L)	GWC-4A	30	n/a	2/1/2023	4.3	No	99	n/a	n/a	0	n/a	n/a	0.0001978	NP Inter (normality) 1 of 2
Fluoride (mg/L)	GWC-2	0.51	n/a	2/1/2023	0.1ND	No	99	n/a	n/a	57.58	n/a	n/a	0.0001978	NP Inter (NDs) 1 of 2
Fluoride (mg/L)	GWC-4A	0.51	n/a	2/1/2023	0.1ND	No	99	n/a	n/a	57.58	n/a	n/a	0.0001978	NP Inter (NDs) 1 of 2
pH (S.U.)	GWC-2	5.866	4.07	2/1/2023	4.83	No	179	2.22	0.1131	0	None	sqrt(x)	0.000752	Param Inter 1 of 2
pH (S.U.)	GWC-4A	5.866	4.07	2/1/2023	4.6	No	179	2.22	0.1131	0	None	sqrt(x)	0.000752	Param Inter 1 of 2
Sulfate (mg/L)	GWC-2	110	n/a	2/1/2023	1.3	No	99	n/a	n/a	29.29	n/a	n/a	0.0001978	NP Inter (normality) 1 of 2
Sulfate (mg/L)	GWC-4A	110	n/a	2/1/2023	1ND	No	99	n/a	n/a	29.29	n/a	n/a	0.0001978	NP Inter (normality) 1 of 2
Total Dissolved Solids (mg/L)	GWC-2	168.3	n/a	2/1/2023	36	No	98	7.787	2.868	2.041	None	sqrt(x)	0.001504	Param Inter 1 of 2
Total Dissolved Solids (mg/L)	GWC-4A	168.3	n/a	2/1/2023	18	No	98	7.787	2.868	2.041	None	sqrt(x)	0.001504	Param Inter 1 of 2

Within Limit

Prediction Limit
Interwell Non-parametric

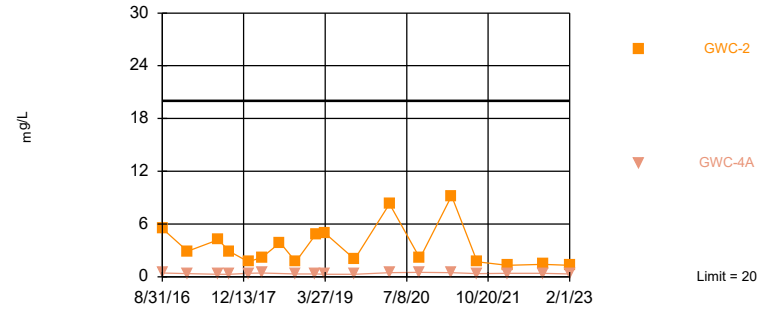


Non-parametric test used in lieu of parametric prediction limit because the Shapiro Francia normality test showed the data to be non-normal at the 0.01 alpha level. Limit is highest of 99 background values. 40.4% NDs. Annual per-constituent alpha = 0.001976. Individual comparison alpha = 0.0001978 (1 of 2). Comparing 2 points to limit. Assumes 3 future values.

Constituent: Boron Analysis Run 3/3/2023 10:22 AM View: PLs Interwell App III
Plant McIntosh Client: Southern Company Data: McIntosh LF 3 CCR

Within Limit

Prediction Limit
Interwell Non-parametric

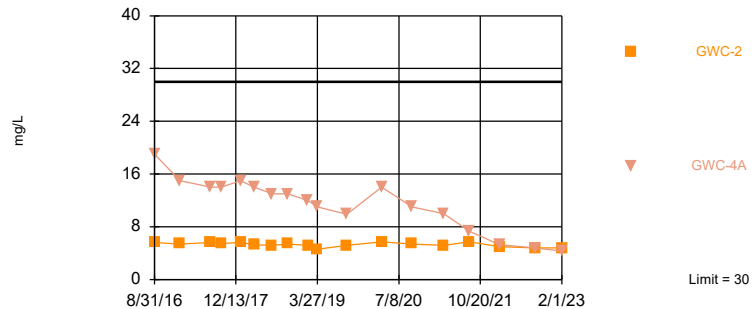


Non-parametric test used in lieu of parametric prediction limit because the Shapiro Francia normality test showed the data to be non-normal at the 0.01 alpha level. Limit is highest of 98 background values. Annual per-constituent alpha = 0.00202. Individual comparison alpha = 0.0002022 (1 of 2). Comparing 2 points to limit. Assumes 3 future values.

Constituent: Calcium Analysis Run 3/3/2023 10:22 AM View: PLs Interwell App III
Plant McIntosh Client: Southern Company Data: McIntosh LF 3 CCR

Within Limit

Prediction Limit
Interwell Non-parametric

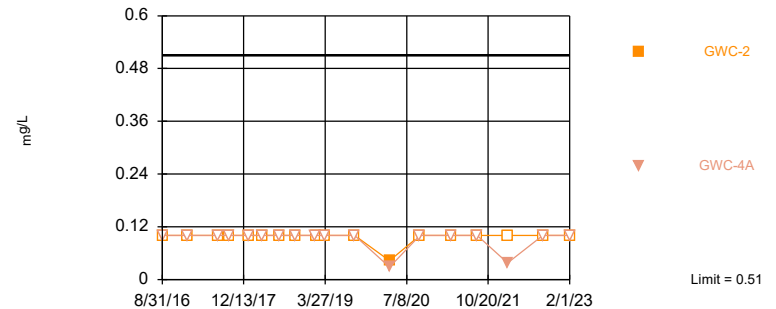


Non-parametric test used in lieu of parametric prediction limit because the Shapiro Francia normality test showed the data to be non-normal at the 0.01 alpha level. Limit is highest of 99 background values. Annual per-constituent alpha = 0.001976. Individual comparison alpha = 0.0001978 (1 of 2). Comparing 2 points to limit. Assumes 3 future values.

Constituent: Chloride Analysis Run 3/3/2023 10:22 AM View: PLs Interwell App III
Plant McIntosh Client: Southern Company Data: McIntosh LF 3 CCR

Within Limit

Prediction Limit
Interwell Non-parametric

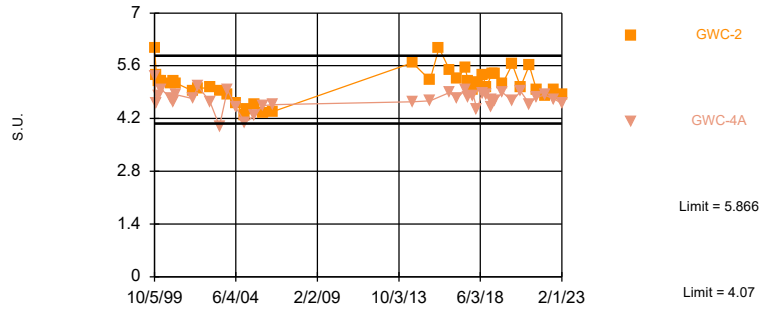


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 99 background values. 57.58% NDs. Annual per-constituent alpha = 0.001976. Individual comparison alpha = 0.0001978 (1 of 2). Comparing 2 points to limit. Assumes 3 future values.

Constituent: Fluoride Analysis Run 3/3/2023 10:22 AM View: PLs Interwell App III
Plant McIntosh Client: Southern Company Data: McIntosh LF 3 CCR

Within Limits

Prediction Limit
Interwell Parametric



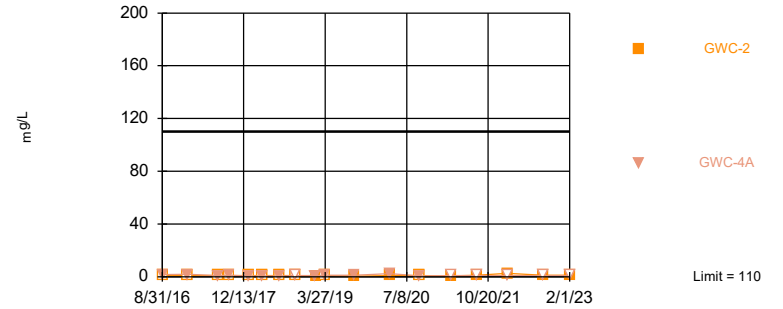
Background Data Summary (based on square root transformation): Mean=2.22, Std. Dev.=0.1131, n=179. Normality test: Chi Squared @alpha = 0.01, calculated = 11.89, critical = 14.07. Kappa = 1.788 (c=7, w=5, 1 of 2, event alpha = 0.05132). N exceeds UG tables; Kappa based on n=150. Report alpha = 0.007498. Individual comparison alpha = 0.000752. Comparing 2 points to limit. Assumes 3 future values.

Constituent: pH Analysis Run 3/3/2023 10:22 AM View: PLs Interwell App III
 Plant McIntosh Client: Southern Company Data: McIntosh LF 3 CCR

Hollow symbols indicate censored values.

Within Limit

Prediction Limit
Interwell Non-parametric



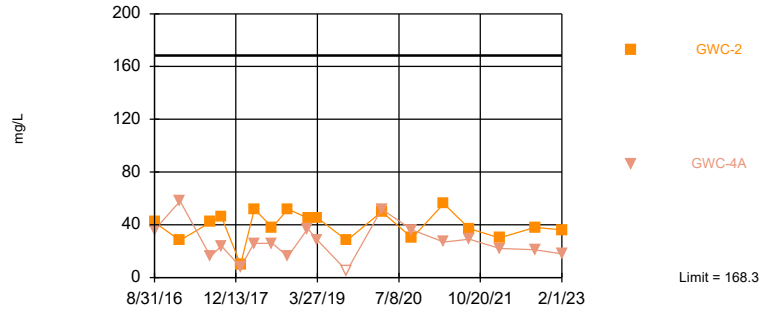
Non-parametric test used in lieu of parametric prediction limit because the Shapiro Francia normality test showed the data to be non-normal at the 0.01 alpha level. Limit is highest of 99 background values. 29.29% NDs. Annual per-constituent alpha = 0.001976. Individual comparison alpha = 0.0001978 (1 of 2). Comparing 2 points to limit. Assumes 3 future values.

Constituent: Sulfate Analysis Run 3/3/2023 10:22 AM View: PLs Interwell App III
 Plant McIntosh Client: Southern Company Data: McIntosh LF 3 CCR

Hollow symbols indicate censored values.

Within Limit

Prediction Limit
Interwell Parametric



Background Data Summary (based on square root transformation): Mean=7.787, Std. Dev.=2.868, n=98, 2.041% NDs. Normality test: Shapiro Francia @alpha = 0.01, calculated = 0.9717, critical = 0.966. Kappa = 1.808 (c=7, w=5, 1 of 2, event alpha = 0.05132). Report alpha = 0.007498. Individual comparison alpha = 0.001504. Comparing 2 points to limit. Assumes 3 future values.

Constituent: Total Dissolved Solids Analysis Run 3/3/2023 10:22 AM View: PLs Interwell App III
 Plant McIntosh Client: Southern Company Data: McIntosh LF 3 CCR

Prediction Limit

Constituent: Boron (mg/L) Analysis Run 3/3/2023 10:25 AM View: PLs Interwell App III

Plant McIntosh Client: Southern Company Data: McIntosh LF 3 CCR

	GWA-3A (bg)	GWA-4 (bg)	GWA-5 (bg)	GWC-4A	GWC-2	GWA-1A (bg)	GWA-7A (bg)	GWA-2B (bg)	GWA-1B (bg)
8/31/2016	<0.08	<0.08	0.073	<0.08	0.023 (J)				
9/1/2016						0.029 (J)			
1/19/2017	<0.08	0.027 (J)	0.036 (J)						
1/24/2017					<0.08				
1/25/2017				0.023 (J)					
2/28/2017						<0.08			
7/17/2017						<0.08			
7/18/2017	<0.08	<0.08							
7/19/2017			0.07		0.026 (J)				
7/20/2017				<0.08					
9/20/2017	<0.08					<0.08			
9/21/2017		<0.08	0.07	<0.08	0.025 (J)				
1/8/2018						<0.08			
1/9/2018	<0.08	<0.08	0.042 (J)	<0.08	0.023 (J)				
3/27/2018	<0.08	<0.08	0.037 (J)			<0.08			
3/28/2018				<0.08					
3/29/2018					0.035 (J)				
7/10/2018	<0.08	<0.08	0.042 (J)	<0.08	0.044 (J)	<0.08			
10/8/2018		<0.08	0.044 (J)			<0.08	1.3	0.76	
10/9/2018	<0.08			<0.08	0.043 (J)				
1/30/2019	<0.08	<0.08	0.03 (J)	<0.08		<0.08	1.5	0.77	
1/31/2019					0.04 (J)				
3/27/2019			0.036 (J)			<0.08			
3/28/2019	0.024 (J)	<0.08		<0.08	0.062		1.4	0.83	
9/11/2019						<0.08			
9/12/2019	<0.08	<0.08	0.048 (J)	<0.08	0.045 (J)		1.6	0.65	
3/10/2020	0.059 (J)	<0.08	0.066 (J)			<0.08		0.64	
3/11/2020							1.9		
3/31/2020				<0.08	0.046 (J)				
4/2/2020	0.084								
9/21/2020	0.11	0.073 (J)				0.11	0.61		
9/22/2020			0.097	0.053 (J)	0.083			0.73	
3/23/2021	0.088				0.07 (J)	<0.08	1.5	0.57	0.1
3/24/2021		<0.08	0.048 (J)	<0.08					
8/17/2021	0.098	0.045 (J)	0.067 (J)			0.049 (J)	1.4	0.68	0.11
8/18/2021				0.043 (J)	0.095				
2/7/2022							0.6	0.54	
2/8/2022	0.077 (J)	<0.08	<0.08		0.094	<0.08			0.084
2/9/2022				<0.08					
8/30/2022	0.1	<0.08	<0.08	<0.08	0.085	<0.08	1.2	0.98	0.12
1/31/2023							1.3	0.99	0.044 (J)
2/1/2023	0.087	0.023 (J)		<0.08	0.091				
2/2/2023			0.039 (J)						

Prediction Limit

Constituent: Calcium (mg/L) Analysis Run 3/3/2023 10:25 AM View: PLs Interwell App III

Plant McIntosh Client: Southern Company Data: McIntosh LF 3 CCR

	GWA-3A (bg)	GWA-4 (bg)	GWA-5 (bg)	GWC-4A	GWC-2	GWA-1A (bg)	GWA-2B (bg)	GWA-7A (bg)	GWA-1B (bg)
8/31/2016	1.5	0.88	3.7	0.42	5.5				
9/1/2016						26 (o)			
1/19/2017	1.8	1.1	2						
1/24/2017					2.9				
1/25/2017				0.37					
2/28/2017						2.7			
7/17/2017						1.7			
7/18/2017	1.7	0.86							
7/19/2017			2.6		4.2				
7/20/2017				0.29					
9/20/2017	1.7					1.5			
9/21/2017		0.9	2.7	0.3	2.9				
1/8/2018						1.7			
1/9/2018	1.9	1	4.1	0.38	1.7				
3/27/2018	1.9	0.89	4.8			1.7			
3/28/2018				0.44					
3/29/2018					2.2				
7/10/2018	1.9	0.99	3.7	2 (o)	3.9	1.7			
10/8/2018		1.1	3.2			1.6	17	17	
10/9/2018	2.2			0.34	1.7				
1/30/2019	2.4	1	1.7	0.34		1.9	16	15	
1/31/2019					4.8				
3/27/2019			3.1			1.6			
3/28/2019	2.4	0.98		0.3	4.9		16	18	
9/11/2019						1.6			
9/12/2019	2.3	0.84	1.9	0.3 (J)	2		15	19	
3/10/2020	2.8	1.1	2.9			2	14		
3/11/2020								20	
3/31/2020				0.48 (J)	8.3				
4/2/2020	3								
9/21/2020	3.1	1.4				1.8		13	
9/22/2020			2.9	0.51	2.1		16		
3/23/2021	3.6				9.2	1.8	15	19	4
3/24/2021		1.3	3.1	0.46 (J)					
8/17/2021	3.5	1.4	2.9			1.8	15	17	3.9
8/18/2021				0.37 (J)	1.7				
2/7/2022							12	11	
2/8/2022	3.3	1.3	2.8		1.3	1.7			2.7
2/9/2022				0.39 (J)					
8/30/2022	3.9	1.2	3.4	0.39 (J)	1.4	1.8	15	14	5.2
1/31/2023							16	15	6.8
2/1/2023	4.6	1.4		0.34 (J)	1.3				
2/2/2023			3.7						

Prediction Limit

Constituent: Chloride (mg/L) Analysis Run 3/3/2023 10:25 AM View: PLs Interwell App III

Plant McIntosh Client: Southern Company Data: McIntosh LF 3 CCR

	GWA-3A (bg)	GWA-4 (bg)	GWA-5 (bg)	GWC-4A	GWC-2	GWA-1A (bg)	GWA-7A (bg)	GWA-2B (bg)	GWA-1B (bg)
8/31/2016	6.8	3.7	7.1	19	5.6				
9/1/2016						8			
1/19/2017	6.9	4.6	3.3						
1/24/2017					5.4				
1/25/2017				15					
2/28/2017						8.5			
7/17/2017						7.8			
7/18/2017	7.4	4.2							
7/19/2017			5.8		5.6				
7/20/2017				14					
9/20/2017	7.6					8			
9/21/2017		4.4	6.2	14	5.5				
1/8/2018						7.9			
1/9/2018	8.6	4.4	9.9	15	5.6				
3/27/2018	9.4	4.9	13			8			
3/28/2018				14					
3/29/2018					5.3				
7/10/2018	11	5.5	17	13	5.2	7.8			
10/8/2018		6.6	16			8.5	6.8	7.3	
10/9/2018	14			13	5.4				
1/30/2019	15	6.9	6.5	12		8.2	7.1	7.3	
1/31/2019					5.2				
3/27/2019			9.1			8.1			
3/28/2019	15	5.7		11	4.6		6.1	6.1	
9/11/2019						7.1			
9/12/2019	16	6.1	9.1	9.9	5.2		6.8	7.6	
3/10/2020	19	5	3.7			8.1		8	
3/11/2020							6.9		
3/31/2020				14	5.7				
4/2/2020	20								
9/21/2020	19	5.4				8.1	6.5		
9/22/2020			6.3	11	5.4			8	
3/23/2021	22				5.2	8.6	7.6	7.8	9.9
3/24/2021		6.2	7.4	10					
8/17/2021	23	6.1	11			9.1	8.3	7.7	10
8/18/2021				7.3	5.7				
2/7/2022							7.6	6.7	
2/8/2022	23	6.4	12		5	8.6			9.5
2/9/2022				5.3					
8/30/2022	26	4.7	15	4.8	4.8	8.5	7.5	5.9	7.7
1/31/2023							7.9	6.7	8
2/1/2023	30	4.5		4.3	4.8				
2/2/2023			15						

Prediction Limit

Constituent: Fluoride (mg/L) Analysis Run 3/3/2023 10:25 AM View: PLs Interwell App III

Plant McIntosh Client: Southern Company Data: McIntosh LF 3 CCR

	GWA-3A (bg)	GWA-4 (bg)	GWA-5 (bg)	GWC-4A	GWC-2	GWA-1A (bg)	GWA-7A (bg)	GWA-2B (bg)	GWA-1B (bg)
8/31/2016	<0.1	<0.1	0.13 (J)	<0.1	<0.1				
9/1/2016						<0.1			
1/19/2017	<0.1	0.089 (J)	<0.1						
1/24/2017					<0.1				
1/25/2017				<0.1					
2/28/2017						0.098 (J)			
7/17/2017						<0.1			
7/18/2017	<0.1	<0.1							
7/19/2017			<0.1		<0.1				
7/20/2017				<0.1					
9/20/2017	<0.1					<0.1			
9/21/2017		<0.1	0.13 (J)	<0.1	<0.1				
1/8/2018						<0.1			
1/9/2018	<0.1	<0.1	0.13 (J)	<0.1	<0.1				
3/27/2018	<0.1	<0.1	0.21			<0.1			
3/28/2018				<0.1					
3/29/2018					<0.1				
7/10/2018	<0.1	<0.1	0.17 (J)	<0.1	<0.1	<0.1			
10/8/2018		<0.1	0.11 (J)			<0.1	<0.1	<0.1	
10/9/2018	<0.1			<0.1	<0.1				
1/30/2019	<0.1	0.029 (J)	0.089 (J)	<0.1		<0.1	<0.1	<0.1	
1/31/2019					<0.1				
3/27/2019			0.1 (J)			<0.1			
3/28/2019	<0.1	<0.1		<0.1	<0.1		<0.1	<0.1	
9/11/2019						<0.1			
9/12/2019	<0.1	0.035 (J)	0.052 (J)	<0.1	<0.1		<0.1	0.036 (J)	
3/10/2020	0.026 (J)	0.066 (J)	0.051 (J)			<0.1		<0.1	
3/11/2020							<0.1		
3/31/2020				0.028 (J)	0.043 (J)				
4/2/2020	0.051 (J)								
9/21/2020	<0.1	0.06 (J)				<0.1	<0.1		
9/22/2020			0.049 (J)	<0.1	<0.1			0.039 (J)	
3/23/2021	<0.1				<0.1	<0.1	<0.1	<0.1	0.079 (J)
3/24/2021		0.12	0.08 (J)	<0.1					
8/17/2021	0.064 (J)	0.061 (J)	0.097 (J)			0.038 (J)	0.033 (J)	0.083 (J)	0.09 (J)
8/18/2021				<0.1	<0.1				
2/7/2022							<0.1	0.027 (J)	
2/8/2022	0.033 (J)	0.061 (J)	0.12		<0.1	<0.1			0.077 (J)
2/9/2022				0.038 (J)					
8/30/2022	<0.1	0.047 (J)	0.11	<0.1	<0.1	<0.1	<0.1	<0.1	0.51
1/31/2023							<0.1	<0.1	0.13
2/1/2023	<0.1	0.043 (J)		<0.1	<0.1				
2/2/2023			0.12						

Prediction Limit

Constituent: pH (S.U.) Analysis Run 3/3/2023 10:25 AM View: PLs Interwell App III

Plant McIntosh Client: Southern Company Data: McIntosh LF 3 CCR

	GWA-1A (bg)	GWA-5 (bg)	GWA-3A (bg)	GWC-2	GWC-4A	GWA-4 (bg)	GWA-7A (bg)	GWA-2B (bg)	GWA-1B (bg)
10/5/1999	6.63	6.3	6.42	6.08	5.33	6.51			
11/12/1999	5.51	4.72	5.03	5.35	4.6	5.46			
12/29/1999	5.23	4.8	4.92	5.19	4.8	5.13			
2/17/2000	5.29	4.78	5.13	5.18	4.98	5.22			
9/13/2000	5.41	4.58	4.85	5.13	4.75	4.86			
11/10/2000	5.47	4.5	5.05	5.2	4.65	5.29			
1/4/2001	5.44	4.61	5.08	5.14	4.83	5.53			
12/11/2001	4.86	4.87	4.81	4.93	4.73	5.37			
4/4/2002	5.1	4.96	4.92	5	5.05	5.32			
12/6/2002	4.917 (D)	4.4 (D)	5.07 (D)	5.02	4.65 (D)	5.3 (D)			
6/28/2003	4.91	3.77	4.69	4.92	4	4.73			
12/13/2003	4.87	4.25	4.81	4.82	4.97	4.53			
5/28/2004	4.98	3.9	3.93	4.6	4.51	4.22			
12/10/2004	4.35	3.71	4.25	4.29	4.09	4.26			
2/5/2005				4.43					
6/24/2005	4.82	3.94	4.5	4.56	4.27	4.47			
12/13/2005	4.66	3.94	4.52	4.34	4.54	4.47			
7/12/2006	5.49	5.56	3.59	4.38	4.57	3.68			
7/11/2014	5.55				4.64				
7/12/2014		3.88	5.44	5.68		5.33			
7/15/2015	5.13	4.19	4.98	5.22	4.67	4.94			
1/16/2016	5.06	4.35	4.87			4.85			
1/17/2016				6.07					
8/31/2016		4.53	4.92	5.49	4.89	4.79			
1/19/2017		4.79	4.86			4.72			
1/24/2017				5.25					
1/25/2017					4.73				
2/28/2017	5.33								
7/17/2017	5.09								
7/18/2017			5.02			4.96			
7/19/2017		4.83		5.54					
7/20/2017					4.96				
9/20/2017	5.29		4.72						
9/21/2017		4.57		5.19	4.78	4.7			
1/8/2018	5.26		4.92						
1/9/2018		4.4	4.83	4.97	4.79	4.91			
3/27/2018	5.27	4.11	4.91			4.92			
3/28/2018					4.44				
3/29/2018				5.15					
7/10/2018	5.17	4.62	4.87	5.37	4.88	4.94			
10/8/2018	5.18	4.51	4.84			4.76	5.79	5.29	
10/9/2018				5.04	4.85				
1/29/2019					4.7				
1/30/2019	5.17	4.72	4.88		4.52	4.94	5.15	5.08	
1/31/2019				5.38					
3/27/2019	5.09	4.56							
3/28/2019			4.8	5.38	4.68	4.99	5.62	4.93	
9/11/2019	5.1								
9/12/2019		4.54	4.99	5.14	4.89	4.92	5.1	5.57	
3/10/2020	5.48	4.81	4.79			4.59		5.56	
3/11/2020							5.05		
3/31/2020				5.64	4.66				

Prediction Limit

Constituent: pH (S.U.) Analysis Run 3/3/2023 10:25 AM View: PLs Interwell App III
Plant McIntosh Client: Southern Company Data: McIntosh LF 3 CCR

	GWA-1A (bg)	GWA-5 (bg)	GWA-3A (bg)	GWC-2	GWC-4A	GWA-4 (bg)	GWA-7A (bg)	GWA-2B (bg)	GWA-1B (bg)
4/2/2020			4.75						
9/21/2020	4.95		4.69			4.6	5.35		
9/22/2020		4.99		5.04	4.92			5.83	
3/23/2021	5.17		4.6	5.61			5.01	5.61	5.63
3/24/2021		4.37			4.59	4.42			
8/17/2021	5.24	4.62	4.76			4.78	5.51	5.82	5.83
8/18/2021				4.98	4.76				
2/7/2022							5.29	5.7	
2/8/2022	5.17	4.67	4.69	4.79		4.93			5.43
2/9/2022					4.82				
8/30/2022	5.01	4.51	4.71	4.96	4.71	4.72	5	4.9	5.86
1/31/2023							5	5.07	6.15
2/1/2023			4.52	4.83	4.6	4.77			
2/2/2023		4.59							

Prediction Limit

Constituent: Sulfate (mg/L) Analysis Run 3/3/2023 10:25 AM View: PLs Interwell App III

Plant McIntosh Client: Southern Company Data: McIntosh LF 3 CCR

	GWA-3A (bg)	GWA-4 (bg)	GWA-5 (bg)	GWC-4A	GWC-2	GWA-1A (bg)	GWA-7A (bg)	GWA-2B (bg)	GWA-1B (bg)
8/31/2016	<1	7	21	1.7	<1				
9/1/2016						<1			
1/19/2017	<1	6.3	11						
1/24/2017					<1				
1/25/2017				1.8					
2/28/2017						2.7			
7/17/2017						<1			
7/18/2017	<1	4.7							
7/19/2017			12		<1				
7/20/2017				0.83 (J)					
9/20/2017	<1					<1			
9/21/2017		4.5	15	1.1	<1				
1/8/2018						<1			
1/9/2018	<1	3	25	0.79 (J)	<1				
3/27/2018	<1	3.8	31			<1			
3/28/2018				0.79 (J)					
3/29/2018					<1				
7/10/2018	<1	3.4	19	0.76 (J)	<1	<1			
10/8/2018		3.4	17			<1	75	73	
10/9/2018	<1			<1	<1				
1/30/2019	0.41 (J)	3.5	15	0.9 (J)		1.2	85	74	
1/31/2019					0.57 (J)				
3/27/2019			20			<1			
3/28/2019	0.44 (J)	3		1.1	<1		85	71	
9/11/2019						<1			
9/12/2019	0.69 (J)	3.7	10	1.1	0.43 (J)		81	59	
3/10/2020	3	7.2	15			1.5		57	
3/11/2020							110		
3/31/2020				2.5	1				
4/2/2020	<1								
9/21/2020	<1	5				<1	49		
9/22/2020			12	0.76 (J)	<1			52	
3/23/2021	<1				0.8 (J)	<1	88	49	6.8
3/24/2021		7	16	<1					
8/17/2021	<1	5	11			<1	84	54	5.2
8/18/2021				<1	1.2				
2/7/2022							54	42	
2/8/2022	<1	5.9	13		2.7	<1			2.8
2/9/2022				<1					
8/30/2022	<1	3.5	13	<1	1.1	<1	73	74	1.6
1/31/2023							74	71	1
2/1/2023	<1	3.1		<1	1.3				
2/2/2023			15						

Prediction Limit

Constituent: Total Dissolved Solids (mg/L) Analysis Run 3/3/2023 10:25 AM View: PLs Interwell App III

Plant McIntosh Client: Southern Company Data: McIntosh LF 3 CCR

	GWA-3A (bg)	GWA-4 (bg)	GWA-5 (bg)	GWC-2	GWC-4A	GWA-1A (bg)	GWA-2B (bg)	GWA-7A (bg)	GWA-1B (bg)
8/31/2016	42 (D)	14 (D)	66 (D)	42 (D)	36 (D)				
9/1/2016						2200 (o)			
1/19/2017	52 (D)	34 (D)	48 (D)						
1/24/2017				28 (D)					
1/25/2017					58 (D)				
2/28/2017						74 (D)			
7/17/2017						50			
7/18/2017	32	26							
7/19/2017			48	42					
7/20/2017					16				
9/20/2017	16					26			
9/21/2017		24	76	46	24				
1/8/2018						16			
1/9/2018	4 (J)	16	18	10	8				
3/27/2018	30	<10	48			40			
3/28/2018					26				
3/29/2018				52					
7/10/2018	30	14	76	38	26	90			
10/8/2018		36	8			70	170	180	
10/9/2018	56			52	16				
1/30/2019	41	40	67		37	82	140	180	
1/31/2019				45					
3/27/2019			70			66			
3/28/2019	36	24		45	28		150	170	
9/11/2019						53			
9/12/2019	<10	10	20	28	<10		89	140	
3/10/2020	49	39	67			67	130		
3/11/2020								180	
3/31/2020				50	52				
4/2/2020	61								
9/21/2020	61	31				31		130	
9/22/2020			53	30	36		110		
3/23/2021	76			56		47	130	180	63
3/24/2021		36	60		27				
8/17/2021	83	33	50			36	130	160	43
8/18/2021				37	29				
2/7/2022							120	150	
2/8/2022	62	29	57	30		45			39
2/9/2022					22				
8/30/2022	87	40	64	38	21	55	150	160	79
1/31/2023							140	150	76
2/1/2023	85	34		36	18				
2/2/2023			65						

FIGURE E.

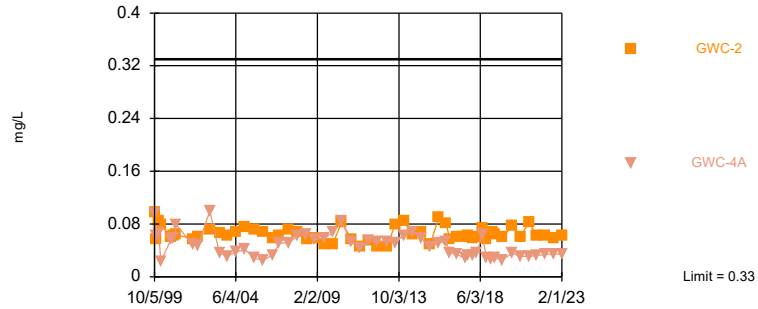
Interwell Prediction Limits Appendix I - All Results (No Significant)

Plant McIntosh Client: Southern Company Data: McIntosh LF 3 CCR Printed 3/3/2023, 10:27 AM

Constituent	Well	Upper Lim	Lower Lim	Date	Observ.	Sig.	Bg N	Bg Mean	Std. Dev.	%NDs	ND Adj.	Transform	Alpha	Method
Barium (mg/L)	GWC-2	0.33	n/a	2/1/2023	0.063	No	245	n/a	n/a	0	n/a	n/a	0.0000492	NP Inter (normality) 1 of 2
Barium (mg/L)	GWC-4A	0.33	n/a	2/1/2023	0.034	No	245	n/a	n/a	0	n/a	n/a	0.0000492	NP Inter (normality) 1 of 2
Beryllium (mg/L)	GWC-2	0.0036	n/a	2/1/2023	0.00024J	No	246	n/a	n/a	69.11	n/a	n/a	0.0000492	NP Inter (NDs) 1 of 2
Beryllium (mg/L)	GWC-4A	0.0036	n/a	2/1/2023	0.0025ND	No	246	n/a	n/a	69.11	n/a	n/a	0.0000492	NP Inter (NDs) 1 of 2
Chromium (mg/L)	GWC-2	0.032	n/a	2/1/2023	0.0037	No	244	n/a	n/a	50	n/a	n/a	0.0000492	NP Inter (normality) 1 of 2
Chromium (mg/L)	GWC-4A	0.032	n/a	2/1/2023	0.002ND	No	244	n/a	n/a	50	n/a	n/a	0.0000492	NP Inter (normality) 1 of 2
Cobalt (mg/L)	GWC-2	0.0072	n/a	2/1/2023	0.0013J	No	244	n/a	n/a	50	n/a	n/a	0.0000492	NP Inter (normality) 1 of 2
Cobalt (mg/L)	GWC-4A	0.0072	n/a	2/1/2023	0.00047J	No	244	n/a	n/a	50	n/a	n/a	0.0000492	NP Inter (normality) 1 of 2
Copper (mg/L)	GWC-2	0.008	n/a	2/1/2023	0.002ND	No	225	n/a	n/a	80	n/a	n/a	0.0000492	NP Inter (NDs) 1 of 2
Lead (mg/L)	GWC-2	0.016	n/a	2/1/2023	0.001ND	No	245	n/a	n/a	81.63	n/a	n/a	0.0000492	NP Inter (NDs) 1 of 2
Vanadium (mg/L)	GWC-2	0.055	n/a	2/1/2023	0.002ND	No	228	n/a	n/a	75	n/a	n/a	0.0000492	NP Inter (NDs) 1 of 2
Vanadium (mg/L)	GWC-4A	0.055	n/a	2/1/2023	0.002ND	No	228	n/a	n/a	75	n/a	n/a	0.0000492	NP Inter (NDs) 1 of 2
Zinc (mg/L)	GWC-2	0.074	n/a	2/1/2023	0.0062	No	228	n/a	n/a	25.44	n/a	n/a	0.0000492	NP Inter (normality) 1 of 2
Zinc (mg/L)	GWC-4A	0.074	n/a	2/1/2023	0.005ND	No	228	n/a	n/a	25.44	n/a	n/a	0.0000492	NP Inter (normality) 1 of 2

Within Limit

Prediction Limit
Interwell Non-parametric

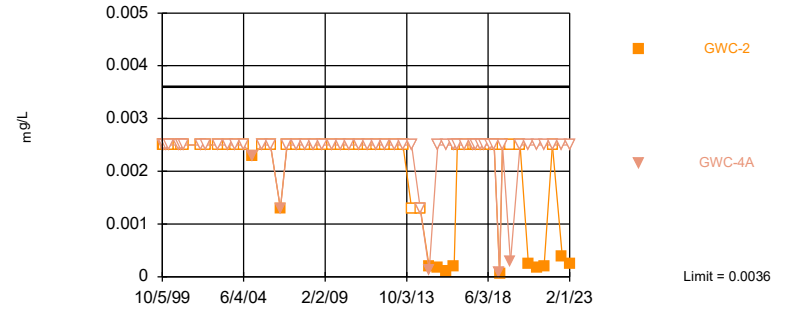


Non-parametric test used in lieu of parametric prediction limit because the Chi Squared normality test showed the data to be non-normal at the 0.01 alpha level. Limit is highest of 245 background values. Annual per-constituent alpha = 0.0004919. Individual comparison alpha = 0.0000492 (1 of 2). Comparing 2 points to limit. Assumes 3 future values.

Constituent: Barium Analysis Run 3/3/2023 10:26 AM View: PLs Interwell State
Plant McIntosh Client: Southern Company Data: McIntosh LF 3 CCR

Within Limit

Prediction Limit
Interwell Non-parametric



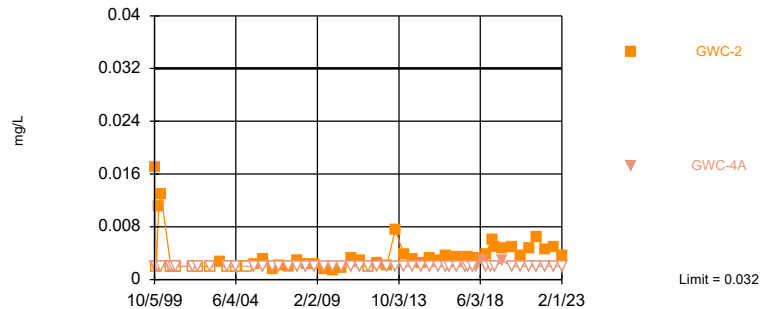
Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 246 background values. 69.11% NDs. Annual per-constituent alpha = 0.0004919. Individual comparison alpha = 0.0000492 (1 of 2). Comparing 2 points to limit. Assumes 3 future values.

Constituent: Beryllium Analysis Run 3/3/2023 10:26 AM View: PLs Interwell State
Plant McIntosh Client: Southern Company Data: McIntosh LF 3 CCR

Hollow symbols indicate censored values.

Within Limit

Prediction Limit
Interwell Non-parametric



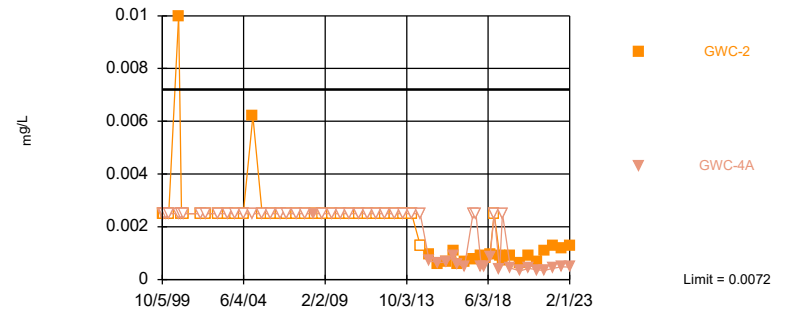
Non-parametric test used in lieu of parametric prediction limit because the Chi Squared normality test showed the data to be non-normal at the 0.01 alpha level. Limit is highest of 244 background values. 50% NDs. Annual per-constituent alpha = 0.0004919. Individual comparison alpha = 0.0000492 (1 of 2). Comparing 2 points to limit. Assumes 3 future values.

Constituent: Chromium Analysis Run 3/3/2023 10:26 AM View: PLs Interwell State
Plant McIntosh Client: Southern Company Data: McIntosh LF 3 CCR

Hollow symbols indicate censored values.

Within Limit

Prediction Limit
Interwell Non-parametric

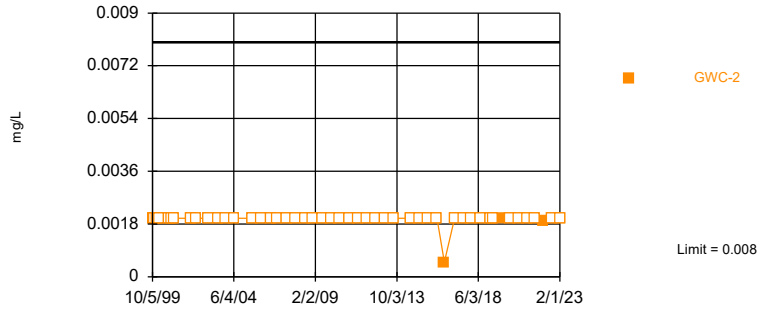


Non-parametric test used in lieu of parametric prediction limit because the Chi Squared normality test showed the data to be non-normal at the 0.01 alpha level. Limit is highest of 244 background values. 50% NDs. Annual per-constituent alpha = 0.0004919. Individual comparison alpha = 0.0000492 (1 of 2). Comparing 2 points to limit. Assumes 3 future values.

Constituent: Cobalt Analysis Run 3/3/2023 10:26 AM View: PLs Interwell State
Plant McIntosh Client: Southern Company Data: McIntosh LF 3 CCR

Within Limit

Prediction Limit
Interwell Non-parametric

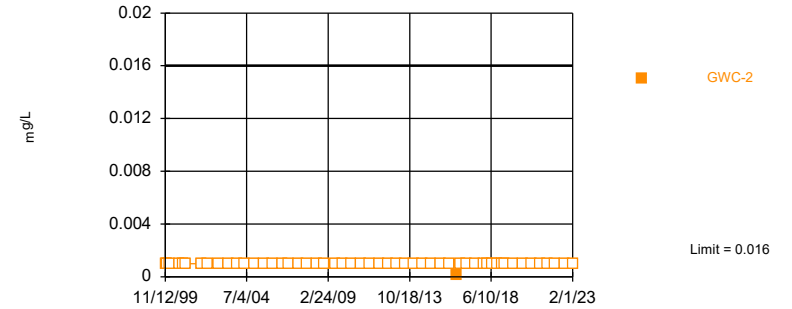


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 225 background values. 80% NDs. Annual per-constituent alpha = 0.0004919. Individual comparison alpha = 0.0000492 (1 of 2). Assumes 4 future values.

Constituent: Copper Analysis Run 3/3/2023 10:26 AM View: PLs Interwell State
Plant McIntosh Client: Southern Company Data: McIntosh LF 3 CCR

Within Limit

Prediction Limit
Interwell Non-parametric

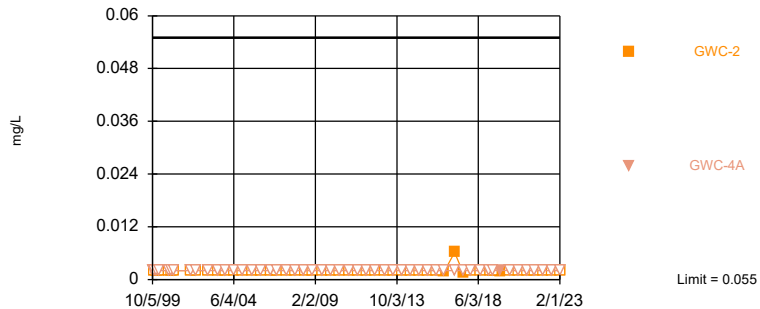


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 245 background values. 81.63% NDs. Annual per-constituent alpha = 0.0004919. Individual comparison alpha = 0.0000492 (1 of 2). Assumes 4 future values.

Constituent: Lead Analysis Run 3/3/2023 10:26 AM View: PLs Interwell State
Plant McIntosh Client: Southern Company Data: McIntosh LF 3 CCR

Within Limit

Prediction Limit
Interwell Non-parametric

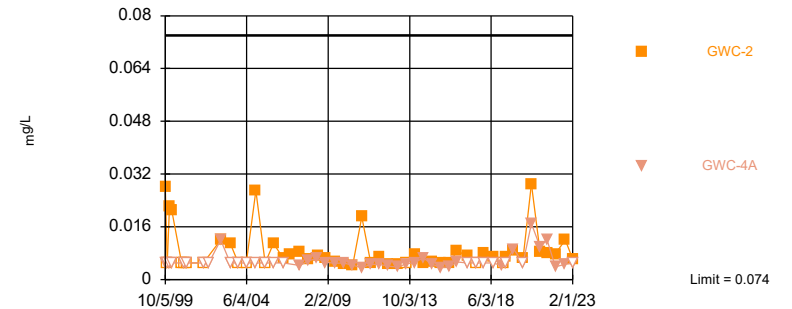


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 228 background values. 75% NDs. Annual per-constituent alpha = 0.0004919. Individual comparison alpha = 0.0000492 (1 of 2). Comparing 2 points to limit. Assumes 3 future values.

Constituent: Vanadium Analysis Run 3/3/2023 10:26 AM View: PLs Interwell State
Plant McIntosh Client: Southern Company Data: McIntosh LF 3 CCR

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 228 background values. 25.44% NDs. Annual per-constituent alpha = 0.0004919. Individual comparison alpha = 0.0000492 (1 of 2). Comparing 2 points to limit. Assumes 3 future values.

Constituent: Zinc Analysis Run 3/3/2023 10:26 AM View: PLs Interwell State
Plant McIntosh Client: Southern Company Data: McIntosh LF 3 CCR

Prediction Limit

Constituent: Barium (mg/L) Analysis Run 3/3/2023 10:27 AM View: PLs Interwell State

Plant McIntosh Client: Southern Company Data: McIntosh LF 3 CCR

	GWA-1A (bg)	GWA-4 (bg)	GWC-2	GWA-5 (bg)	GWA-3A (bg)	GWC-4A	GWA-7A (bg)	GWA-2B (bg)	GWA-1B (bg)
10/5/1999	0.084	0.013	0.097	0.1	0.031	0.095			
11/12/1999	0.099	0.017	0.057	0.086	0.023	0.063			
12/29/1999	0.18	0.027	0.084	0.12	0.033	0.066			
2/17/2000	0.12	0.023	0.079	0.13	0.026	0.023			
9/13/2000	0.038	0.022	0.06	0.18	0.044	0.056			
11/10/2000	0.065	0.035	0.062	0.018	0.044	0.059			
1/4/2001	0.037	0.032	0.064	0.23	0.043	0.079			
12/11/2001	0.027	0.032	0.057	0.12	0.041	0.049			
4/4/2002	0.027	0.03	0.06	0.094	0.038	0.048			
12/6/2002	0.028	0.041	0.072	0.33	0.044	0.1			
6/28/2003	0.054	0.035	0.066	0.11	0.045	0.036			
12/13/2003	0.027	0.029	0.063	0.057	0.039	0.031			
5/28/2004	0.18	0.033	0.067	0.035	0.042	0.038			
12/10/2004	0.1	0.037	0.075	0.04	0.045	0.041			
6/24/2005	0.045	0.034	0.071	0.037	0.042	0.028			
12/13/2005	0.048	0.03	0.068	0.039	0.043	0.025			
7/12/2006	0.13	0.03	0.058	0.042	0.043	0.033			
12/1/2006	0.012	0.032	0.063	0.044	0.041	0.051			
6/21/2007	0.2	0.03	0.071	0.058	0.043	0.052			
12/15/2007	0.14	0.034	0.068	0.073	0.045	0.062			
6/21/2008		0.037				0.065			
6/22/2008	0.1		0.057	0.096	0.05				
12/6/2008		0.034	0.058	0.094	0.14	0.056			
12/7/2008	0.043								
7/10/2009					0.046				
7/11/2009	0.13	0.037	0.05	0.12		0.059			
12/22/2009				0.089					
12/23/2009	0.17	0.058	0.05		0.049	0.067			
6/23/2010		0.046	0.083	0.081	0.043	0.084			
6/24/2010	0.045								
1/8/2011		0.036	0.057	0.097	0.047	0.053			
1/9/2011	0.11								
7/10/2011		0.031	0.046	0.084	0.035	0.043			
7/11/2011	0.022								
1/19/2012		0.045			0.05				
1/20/2012	0.043		0.055	0.099		0.054			
7/12/2012		0.039	0.045	0.12	0.042	0.053			
7/13/2012	0.05								
1/21/2013	0.11	0.042	0.045	0.095	0.048	0.053			
7/20/2013	0.04	0.054	0.079	0.086	0.047	0.052			
1/17/2014	0.082	0.057	0.084	0.14	0.049	0.063			
7/11/2014						0.068			
7/12/2014	0.034	0.042	0.065	0.17	0.043				
1/15/2015		0.041	0.067		0.05				
1/16/2015	0.029			0.12		0.059			
7/15/2015	0.025	0.04	0.049	0.12	0.044	0.045			
1/16/2016	0.026	0.04		0.12	0.048				
1/17/2016			0.09			0.052			
6/22/2016	0.0374 (D)	0.0453	0.0806	0.0839	0.0471 (D)	0.0528			
8/31/2016		0.041	0.057	0.093	0.043	0.037			
9/1/2016	0.86 (o)								
1/19/2017		0.052		0.079	0.052				

Prediction Limit

Constituent: Barium (mg/L) Analysis Run 3/3/2023 10:27 AM View: PLs Interwell State
 Plant McIntosh Client: Southern Company Data: McIntosh LF 3 CCR

	GWA-1A (bg)	GWA-4 (bg)	GWC-2	GWA-5 (bg)	GWA-3A (bg)	GWC-4A	GWA-7A (bg)	GWA-2B (bg)	GWA-1B (bg)
1/24/2017			0.06						
1/25/2017						0.034			
2/28/2017	0.027								
7/17/2017	0.022								
7/18/2017		0.037			0.046				
7/19/2017			0.06	0.085					
7/20/2017						0.028			
9/20/2017	0.023				0.053				
9/21/2017		0.042	0.063	0.1		0.032			
1/8/2018	0.022								
1/9/2018		0.043	0.059	0.13	0.05	0.033			
3/27/2018	0.023	0.039		0.18	0.054				
3/28/2018						0.037			
3/29/2018			0.06						
7/10/2018	0.024	0.043	0.073	0.14 (o)	0.056	0.065			
10/8/2018	0.03	0.042		0.11			0.14	0.049	
10/9/2018			0.057		0.061	0.029			
1/30/2019	0.024	0.04		0.079	0.071	0.027	0.1	0.041	
1/31/2019			0.067						
3/27/2019	0.021			0.12					
3/28/2019		0.041	0.064		0.068	0.028	0.1	0.035	
9/11/2019	0.022								
9/12/2019		0.044	0.06	0.086	0.073	0.026	0.077	0.049	
3/10/2020	0.018	0.058		0.081	0.082			0.047	
3/11/2020							0.067		
3/31/2020			0.077			0.036			
4/2/2020					0.088				
9/21/2020	0.023	0.052			0.083		0.11		
9/22/2020			0.061	0.078		0.031		0.049	
3/23/2021	0.023		0.083		0.093		0.048	0.044	0.021
3/24/2021		0.052		0.096		0.031			
8/17/2021	0.025	0.056		0.094	0.095		0.054	0.047	0.022
8/18/2021			0.062			0.032			
2/7/2022							0.096	0.047	
2/8/2022	0.024	0.054	0.062	0.1	0.1				0.019
2/9/2022						0.034			
8/30/2022	0.023	0.046	0.058	0.13	0.11	0.035	0.047	0.03	0.022
1/31/2023							0.043	0.036	0.024
2/1/2023		0.05	0.063		0.13	0.034			
2/2/2023				0.13					

Prediction Limit

Constituent: Beryllium (mg/L) Analysis Run 3/3/2023 10:27 AM View: PLs Interwell State

Plant McIntosh Client: Southern Company Data: McIntosh LF 3 CCR

	GWA-1A (bg)	GWA-4 (bg)	GWC-2	GWA-5 (bg)	GWA-3A (bg)	GWC-4A	GWA-7A (bg)	GWA-2B (bg)	GWA-1B (bg)
10/5/1999	<0.0025	<0.0025	<0.0025	<0.0025	<0.0025	<0.0025			
11/12/1999	<0.0025	<0.0025	<0.0025	<0.0025	<0.0025	<0.0025			
12/29/1999	<0.0025	<0.0025	<0.0025	<0.0025	<0.0025	<0.0025			
2/17/2000	<0.0025	<0.0025	<0.0025	<0.0025	<0.0025	<0.0025			
9/13/2000	<0.0025	<0.0025	<0.0025	<0.0025	<0.0025	<0.0025			
11/10/2000	<0.0025	<0.0025	<0.0025	<0.0025	<0.0025	<0.0025			
1/4/2001	<0.0025	<0.0025	<0.0025	<0.0025	<0.0025	<0.0025			
12/11/2001	<0.0025	<0.0025	<0.0025	<0.0025	<0.0025	<0.0025			
4/4/2002	<0.0025	<0.0025	<0.0025	<0.0025	<0.0025	<0.0025			
12/6/2002	<0.0025	<0.0025	<0.0025	0.0018	<0.0025	<0.0025			
6/28/2003	<0.0025	<0.0025	<0.0025	0.0036	<0.0025	<0.0025			
12/13/2003	<0.0025	<0.0025	<0.0025	0.0019	<0.0025	<0.0025			
5/28/2004	<0.0025	<0.0025	<0.0025	<0.0025	<0.0025	<0.0025			
12/10/2004	0.0028	0.0023	0.0023	0.0035	0.0024	0.0023			
6/24/2005	<0.0025	<0.0025	<0.0025	<0.0025	<0.0025	<0.0025			
12/13/2005	<0.0025	<0.0025	<0.0025	<0.0025	<0.0025	<0.0025			
7/12/2006	0.0013	<0.0025	0.0013	0.0013	<0.0025	0.0013			
12/1/2006	<0.0025	<0.0025	<0.0025	<0.0025	<0.0025	<0.0025			
6/21/2007	<0.0025	<0.0025	<0.0025	<0.0025	<0.0025	<0.0025			
12/15/2007	<0.0025	<0.0025	<0.0025	<0.0025	<0.0025	<0.0025			
6/21/2008		<0.0025				<0.0025			
6/22/2008	<0.0025		<0.0025	<0.0025	<0.0025	<0.0025			
12/6/2008		<0.0025	<0.0025	<0.0025	<0.0025	<0.0025			
12/7/2008	<0.0025								
7/10/2009					<0.0025				
7/11/2009	<0.0025	<0.0025	<0.0025	<0.0025		<0.0025			
12/22/2009				<0.0025					
12/23/2009	<0.0025	<0.0025	<0.0025		<0.0025	<0.0025			
6/23/2010		<0.0025	<0.0025	<0.0025	<0.0025	<0.0025			
6/24/2010	<0.0025								
1/8/2011		<0.0025	<0.0025	<0.0025	<0.0025	<0.0025			
1/9/2011	<0.0025								
7/10/2011		<0.0025	<0.0025	<0.0025	<0.0025	<0.0025			
7/11/2011	<0.0025								
1/19/2012		<0.0025			<0.0025				
1/20/2012	<0.0025		<0.0025	<0.0025		<0.0025			
7/12/2012		<0.0025	<0.0025	<0.0025	<0.0025	<0.0025			
7/13/2012	<0.0025								
1/21/2013	<0.0025	<0.0025	<0.0025	<0.0025	<0.0025	<0.0025			
7/20/2013	<0.0025	<0.0025	<0.0025	<0.0025	<0.0025	<0.0025			
1/17/2014	<0.0013 (J)	<0.0013 (J)	<0.0013 (J)	<0.0013 (J)	<0.0025	<0.0025			
7/11/2014								<0.0013 (J)	
7/12/2014	<0.0013 (J)	<0.0013 (J)	<0.0013 (J)	<0.0013 (J)	<0.0025				
1/15/2015		0.0002 (J)	0.00019 (J)		0.00039 (J)				
1/16/2015	0.00022 (J)			0.00043 (J)		0.00012 (J)			
7/15/2015	0.00015 (J)	0.00018 (J)	0.00018 (J)	0.00064 (J)	0.00031 (J)	<0.0025			
1/16/2016	0.00011 (J)	0.00013 (J)		0.00039 (J)	0.00034 (J)				
1/17/2016			0.00011 (J)			<0.0025			
6/22/2016	0.00025 (JD)	0.0001 (J)	0.0002 (J)	0.0002 (J)	0.0004 (J)	<0.0025			
8/31/2016		<0.0025	<0.0025	<0.0025	0.00035 (J)	<0.0025			
9/1/2016	0.0084 (o)								
1/19/2017		<0.0025		<0.0025	<0.0025				

Prediction Limit

Constituent: Beryllium (mg/L) Analysis Run 3/3/2023 10:27 AM View: PLs Interwell State
 Plant McIntosh Client: Southern Company Data: McIntosh LF 3 CCR

	GWA-1A (bg)	GWA-4 (bg)	GWC-2	GWA-5 (bg)	GWA-3A (bg)	GWC-4A	GWA-7A (bg)	GWA-2B (bg)	GWA-1B (bg)
1/24/2017			<0.0025						
1/25/2017						<0.0025			
2/28/2017	<0.0025								
7/17/2017	<0.0025								
7/18/2017		<0.0025			0.00038 (J)				
7/19/2017			<0.0025	<0.0025					
7/20/2017						<0.0025			
9/20/2017	<0.0025				0.00039 (J)				
9/21/2017		<0.0025	<0.0025	<0.0025		<0.0025			
1/8/2018	<0.0025								
1/9/2018		<0.0025	<0.0025	<0.0025	<0.0025	<0.0025			
3/27/2018	<0.0025	<0.0025		<0.0025	<0.0025				
3/28/2018						<0.0025			
3/29/2018			<0.0025						
7/10/2018	<0.0025	<0.0025	<0.0025	<0.0025	0.00038 (J)	<0.0025			
10/8/2018	<0.0025	<0.0025		<0.0025			<0.0025	0.0014 (J)	
10/9/2018			<0.0025		<0.0025	<0.0025			
1/30/2019	0.00026 (J)	0.00019 (J)		0.00024 (J)	0.00051 (J)	7E-05 (J)	0.00047 (J)	0.0019 (J)	
1/31/2019			6.5E-05 (J)						
3/27/2019	<0.0025			<0.0025					
3/28/2019		<0.0025	<0.0025		0.00046 (J)	<0.0025	0.00034 (J)	0.0017 (J)	
9/11/2019	0.00019 (J)								
9/12/2019		<0.0025	<0.0025	0.00036 (J)	0.00084 (J)	0.00028 (J)	0.00097 (J)	0.00088 (J)	
3/10/2020	0.00018 (J)	0.00029 (J)		0.00028 (J)	0.00058 (J)			0.00087 (J)	
3/11/2020							0.00078 (J)		
3/31/2020			<0.0025			<0.0025			
4/2/2020					0.00062 (J)				
9/21/2020	0.0002 (J)	<0.0025			0.00054 (J)		<0.0025		
9/22/2020			0.00025 (J)	<0.0025		<0.0025		0.00042 (J)	
3/23/2021	0.00021 (J)		0.00018 (J)		0.00063 (J)		0.00066 (J)	0.00071 (J)	<0.0025
3/24/2021		0.00019 (J)		0.00026 (J)		<0.0025			
8/17/2021	<0.0025	<0.0025		0.00018 (J)	0.00049 (J)		0.00047 (J)	0.00068 (J)	<0.0025
8/18/2021			0.0002 (J)			<0.0025			
2/7/2022							<0.0025	0.00071 (J)	
2/8/2022	<0.0025	<0.0025	<0.0025	<0.0025	0.00061 (J)				<0.0025
2/9/2022						<0.0025			
8/30/2022	0.00035 (J)	0.00028 (J)	0.00038 (J)	<0.0025	0.00083 (J)	<0.0025	0.0007 (J)	0.0019 (J)	<0.0025
1/31/2023							0.00056 (J)	0.0018 (J)	<0.0025
2/1/2023		0.00024 (J)	0.00024 (J)		0.00078 (J)	<0.0025			
2/2/2023				0.0005 (J)					

Prediction Limit

Constituent: Chromium (mg/L) Analysis Run 3/3/2023 10:27 AM View: PLs Interwell State

Plant McIntosh Client: Southern Company Data: McIntosh LF 3 CCR

	GWA-1A (bg)	GWA-4 (bg)	GWC-2	GWA-3A (bg)	GWC-4A	GWA-5 (bg)	GWA-7A (bg)	GWA-2B (bg)	GWA-1B (bg)
10/5/1999	0.023	<0.002	0.017	<0.002	<0.002	<0.002			
11/12/1999	0.03	<0.002	<0.002	<0.002	<0.002	<0.002			
12/29/1999	0.059 (o)	<0.002	0.011	<0.002	<0.002	<0.002			
2/17/2000	0.048 (o)	<0.002	0.013	<0.002	<0.002	<0.002			
9/13/2000	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002			
11/10/2000	0.018	<0.002	<0.002	<0.002	<0.002	<0.002			
1/4/2001	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002			
12/11/2001	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002			
4/4/2002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002			
12/6/2002	0.0046	0.0037	<0.002	<0.002	<0.002	0.027			
6/28/2003	0.0082	0.0039	0.0027	0.0053	0.061 (o)	0.0051			
12/13/2003	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002			
5/28/2004	0.016	<0.002	<0.002	0.0027	<0.002	0.0031			
12/10/2004	0.0087	<0.002	0.74 (o)	0.004	0.0059 (o)	0.0067			
2/5/2005			<0.002						
6/24/2005	0.0069	<0.002	0.0023	0.0031	<0.002	<0.002			
12/13/2005	0.0075	<0.002	0.0031	0.0031	<0.002	<0.002			
7/12/2006	0.027	0.023	0.0016	0.0025	<0.002	<0.002			
12/1/2006	<0.002	0.0017	0.0022	0.0037	<0.002	<0.002			
6/21/2007	0.012	0.0027	0.002	0.0053	<0.002	0.0021			
12/15/2007	0.0085	0.0026	0.0029	0.0044	<0.002	0.0022			
6/21/2008		0.0021			<0.002				
6/22/2008	0.021		0.0023	0.0059		0.0019			
12/6/2008		<0.002	0.0023	0.0031	<0.002	<0.002			
12/7/2008	0.01								
7/10/2009				0.0029					
7/11/2009	0.0073	<0.002	0.0015		<0.002	<0.002			
12/22/2009						0.0032			
12/23/2009	0.013	<0.002	0.0014	0.0025	<0.002				
6/23/2010		<0.002	0.0018	0.0013	<0.002	<0.002			
6/24/2010	0.0076								
1/8/2011		<0.002	0.0033	0.0017	<0.002	0.0019			
1/9/2011	0.023								
7/10/2011		<0.002	0.0028	<0.002	<0.002	<0.002			
7/11/2011	0.0042								
1/19/2012		<0.002		<0.002					
1/20/2012	0.009		<0.002		<0.002	<0.002			
7/12/2012		<0.002	0.0025	<0.002	<0.002	0.0044			
7/13/2012	0.013								
1/21/2013	0.032	<0.002	0.0022	0.0014	<0.002	<0.002			
7/20/2013	0.01	<0.002	0.0075	0.0021	<0.002	0.0017			
1/17/2014	0.024	<0.002	0.0039	0.0023	<0.002	<0.0013 (J)			
7/11/2014					<0.002				
7/12/2014	0.0069	<0.002	0.0031	<0.0013 (J)		0.0014			
1/15/2015		<0.002	0.0026	<0.002					
1/16/2015	0.0064				<0.002	0.0011 (J)			
7/15/2015	0.0051	<0.002	0.0032	<0.002	<0.002	0.0016			
1/16/2016	0.0066	<0.002		0.0025		<0.002			
1/17/2016			0.0029		<0.002				
6/22/2016	0.00815 (JD)	0.0005 (J)	0.0036 (J)	0.00255 (JD)	<0.002	0.002 (J)			
8/31/2016		<0.002	0.0027	0.0042	<0.002	0.002 (J)			
9/1/2016	0.12 (o)								

Prediction Limit

Constituent: Chromium (mg/L) Analysis Run 3/3/2023 10:27 AM View: PLs Interwell State
 Plant McIntosh Client: Southern Company Data: McIntosh LF 3 CCR

	GWA-1A (bg)	GWA-4 (bg)	GWC-2	GWA-3A (bg)	GWC-4A	GWA-5 (bg)	GWA-7A (bg)	GWA-2B (bg)	GWA-1B (bg)
1/19/2017		<0.002		0.0039		0.002 (J)			
1/24/2017			0.0034						
1/25/2017					<0.002 (D)				
2/28/2017	0.0012 (J)								
7/17/2017	0.003								
7/18/2017		<0.002		0.0018 (J)					
7/19/2017			0.0028			0.0017 (J)			
7/20/2017					<0.002				
9/20/2017	0.0025			0.0026					
9/21/2017		<0.002	0.0035		<0.002	0.0021 (J)			
1/8/2018	0.0038								
1/9/2018		0.0087	0.003	0.0038	<0.002	0.0019 (J)			
3/27/2018	0.0044	<0.002		0.0037		<0.002			
3/28/2018					0.0019 (J)				
3/29/2018			0.0032						
7/10/2018	0.0045	<0.002	0.0033	0.0022 (J)	0.0029	0.0012 (J)			
10/8/2018	0.0054	<0.002				0.0015 (J)	<0.002	<0.002	
10/9/2018			0.0039	0.0047	<0.002				
1/30/2019	0.0061	0.00088 (J)		0.005	<0.002	0.0014 (J)	<0.002	0.003	
1/31/2019			0.0061						
3/27/2019	0.0044					<0.002			
3/28/2019		<0.002	0.0049	0.0037	<0.002		<0.002	0.0017 (J)	
9/11/2019	0.0076								
9/12/2019		<0.002	0.0048	<0.002	0.0028	0.0032	<0.002	<0.002	
3/10/2020	0.0041	<0.002		<0.002		0.0031		<0.002	
3/11/2020							<0.002		
3/31/2020			0.005		<0.002				
4/2/2020				0.0031					
9/21/2020	0.0049	<0.002		<0.002			<0.002		
9/22/2020			0.0036		<0.002	0.0017 (J)		<0.002	
3/23/2021	0.0047		0.0048	0.0022			<0.002	<0.002	<0.002
3/24/2021		<0.002			<0.002	<0.002			
8/17/2021	0.0046	<0.002		<0.002		<0.002	<0.002	<0.002	<0.002
8/18/2021			0.0064		<0.002				
2/7/2022							<0.002	<0.002	
2/8/2022	0.0051	<0.002	0.0046	<0.002		0.003			<0.002
2/9/2022					<0.002				
8/30/2022	0.0047	<0.002	0.005	0.0084	<0.002	<0.002	<0.002	0.0028	<0.002
1/31/2023							<0.002	0.0022	<0.002
2/1/2023		0.0016 (J)	0.0037	0.0016 (J)	<0.002				
2/2/2023						0.0023			

Prediction Limit

Constituent: Cobalt (mg/L) Analysis Run 3/3/2023 10:27 AM View: PLs Interwell State

Plant McIntosh Client: Southern Company Data: McIntosh LF 3 CCR

	GWA-1A (bg)	GWA-4 (bg)	GWC-2	GWA-3A (bg)	GWC-4A	GWA-5 (bg)	GWA-7A (bg)	GWA-2B (bg)	GWA-1B (bg)
10/5/1999	<0.0025	<0.0025	<0.0025	<0.0025	<0.0025	<0.0025			
11/12/1999	<0.0025	<0.0025	<0.0025	<0.0025	<0.0025	<0.0025			
12/29/1999	<0.0025	<0.0025	<0.0025	<0.0025	<0.0025	<0.0025			
2/17/2000	<0.0025	<0.0025	<0.0025	<0.0025	<0.0025	<0.0025			
9/13/2000	<0.0025	<0.0025	0.01	<0.0025	<0.0025	<0.0025			
11/10/2000	<0.0025	<0.0025	<0.0025	<0.0025	<0.0025	<0.0025			
1/4/2001	<0.0025	<0.0025	<0.0025	<0.0025	<0.0025	<0.0025			
12/11/2001	<0.0025	<0.0025	<0.0025	<0.0025	<0.0025	<0.0025			
4/4/2002	<0.0025	<0.0025	<0.0025	<0.0025	<0.0025	<0.0025			
12/6/2002	<0.0025	<0.0025	<0.0025	<0.0025	<0.0025	<0.0025			
6/28/2003	<0.0025	<0.0025	<0.0025	<0.0025	<0.0025	0.018 (o)			
12/13/2003	<0.0025	<0.0025	<0.0025	<0.0025	<0.0025	<0.0025			
5/28/2004	<0.0025	<0.0025	<0.0025	<0.0025	<0.0025	<0.0025			
12/10/2004	<0.0025	<0.0025	0.0062	<0.0025	<0.0025	0.007			
6/24/2005	<0.0025	<0.0025	<0.0025	<0.0025	<0.0025	0.0072			
12/13/2005	<0.0025	<0.0025	<0.0025	<0.0025	<0.0025	0.0062			
7/12/2006	0.0032	<0.0025	<0.0025	<0.0025	<0.0025	0.0048			
12/1/2006	0.012 (o)	<0.0025	<0.0025	<0.0025	<0.0025	0.0032			
6/21/2007	<0.0025	<0.0025	<0.0025	0.0025	<0.0025	0.0037			
12/15/2007	<0.0025	<0.0025	<0.0025	<0.0025	<0.0025	<0.0025			
6/21/2008		<0.0025			0.0025				
6/22/2008	0.0031		<0.0025	<0.0025		0.0025			
12/6/2008		<0.0025	<0.0025	<0.0025	<0.0025	0.0025			
12/7/2008	<0.0025								
7/10/2009				<0.0025					
7/11/2009	<0.0025	<0.0025	<0.0025		<0.0025	<0.0025			
12/22/2009						0.0025			
12/23/2009	<0.0025	<0.0025	<0.0025	<0.0025	<0.0025				
6/23/2010		<0.0025	<0.0025	<0.0025	<0.0025	<0.0025			
6/24/2010	<0.0025								
1/8/2011		<0.0025	<0.0025	<0.0025	<0.0025	0.0026			
1/9/2011	0.0031								
7/10/2011		<0.0025	<0.0025	<0.0025	<0.0025	<0.0025			
7/11/2011	<0.0025								
1/19/2012		<0.0025		<0.0025					
1/20/2012	<0.0025		<0.0025		<0.0025	<0.0025			
7/12/2012		<0.0025	<0.0025	<0.0025	<0.0025	0.002			
7/13/2012	0.0015								
1/21/2013	0.0035	<0.0025	<0.0025	<0.0025	<0.0025	0.0014			
7/20/2013	<0.0025	<0.0025	<0.0025	<0.0025	<0.0025	<0.0025			
1/17/2014	0.0027	<0.0013 (J)	<0.0025	<0.0013 (J)	<0.0025	0.0019			
7/11/2014					<0.0025				
7/12/2014	<0.0013 (J)	<0.0013 (J)	<0.0013 (J)	<0.0013 (J)		0.0026			
1/15/2015		0.00084 (J)	0.00096 (J)	0.00086 (J)					
1/16/2015	<0.0025				0.00071 (J)	0.0021			
7/15/2015	<0.0025	0.00083 (J)	0.0006 (J)	0.00087 (J)	0.00064 (J)	0.0023			
1/16/2016	0.00059 (J)	0.00092 (J)		0.0011 (J)		0.002			
1/17/2016			0.00069 (J)		0.00066 (J)				
6/22/2016	0.00085 (JD)	0.0005 (J)	0.0011 (J)	0.0009 (J)	0.0009 (J)	0.0007 (J)			
8/31/2016		0.00055 (J)	0.0006 (J)	0.00095 (J)	0.0006 (J)	0.001 (J)			
9/1/2016	0.023 (o)								
1/19/2017		0.00041 (J)		0.00087 (J)		0.00046 (J)			

Prediction Limit

Constituent: Cobalt (mg/L) Analysis Run 3/3/2023 10:27 AM View: PLs Interwell State
 Plant McIntosh Client: Southern Company Data: McIntosh LF 3 CCR

	GWA-1A (bg)	GWA-4 (bg)	GWC-2	GWA-3A (bg)	GWC-4A	GWA-5 (bg)	GWA-7A (bg)	GWA-2B (bg)	GWA-1B (bg)
1/24/2017			0.00067 (J)						
1/25/2017					0.00047 (J)				
2/28/2017	0.00048 (J)								
7/17/2017	<0.0025								
7/18/2017		0.0007 (J)		0.001 (J)					
7/19/2017			0.00079 (J)			0.00069 (J)			
7/20/2017					<0.0025				
9/20/2017	<0.0025			0.0011 (J)					
9/21/2017		0.00073 (J)	0.00077 (J)		<0.0025	0.00073 (J)			
1/8/2018	<0.0025								
1/9/2018		0.0012 (J)	0.00092 (J)	0.0011 (J)	0.00048 (J)	0.0014 (J)			
3/27/2018	<0.0025	0.00081 (J)		0.0011 (J)		0.0019 (J)			
3/28/2018					0.00048 (J)				
3/29/2018			0.0008 (J)						
7/10/2018	<0.0025	0.00086 (J)	0.00097 (J)	0.0012 (J)	0.00084 (J)	0.0015 (J)			
10/8/2018	<0.0025	<0.0025				<0.0025	0.0055	0.0051	
10/9/2018			<0.0025	<0.0025	<0.0025				
1/30/2019	0.00038 (J)	0.00092 (J)		0.0014 (J)	0.00038 (J)	0.00076 (J)	0.0047	0.0044	
1/31/2019			0.00092 (J)						
3/27/2019	<0.0025					0.0012 (J)			
3/28/2019		0.00089 (J)	0.00072 (J)	0.0014 (J)	<0.0025		0.0045	0.0046	
9/11/2019	0.00032 (J)								
9/12/2019		0.00091	0.0009	0.0015	0.00044 (J)	0.00074	0.0043	0.0023	
3/10/2020	0.00028 (J)	0.0009		0.0019		0.00099		0.003	
3/11/2020							0.0056		
3/31/2020			0.00061 (J)		0.00033 (J)				
4/2/2020				0.0017 (J)					
9/21/2020	0.0003 (J)	0.00059 (J)		0.0016 (J)			0.0025		
9/22/2020			0.00092 (J)		0.00042 (J)	0.00064 (J)		<0.0025	
3/23/2021	0.00028 (J)		0.00069 (J)	0.0017 (J)			0.003	0.00096 (J)	0.00019 (J)
3/24/2021		0.00069 (J)			0.00037 (J)	0.00077 (J)			
8/17/2021	0.00032 (J)	0.00096 (J)		0.002 (J)		0.00085 (J)	0.0026	0.00016 (J)	0.00025 (J)
8/18/2021			0.0011 (J)		0.00034 (J)				
2/7/2022							0.0024 (J)	0.00073 (J)	
2/8/2022	0.00029 (J)	0.00096 (J)	0.0013 (J)	0.0019 (J)		0.001 (J)			0.00032 (J)
2/9/2022					0.00042 (J)				
8/30/2022	0.00031 (J)	0.00097 (J)	0.0012 (J)	0.0023 (J)	0.00048 (J)	0.0016 (J)	0.0024 (J)	0.004	0.00029 (J)
1/31/2023							0.0023 (J)	0.0041	0.00028 (J)
2/1/2023		0.0012 (J)	0.0013 (J)	0.0027	0.00047 (J)				
2/2/2023						0.0017 (J)			

Prediction Limit

Constituent: Copper (mg/L) Analysis Run 3/3/2023 10:27 AM View: PLs Interwell State

Plant McIntosh Client: Southern Company Data: McIntosh LF 3 CCR

	GWA-1A (bg)	GWA-3A (bg)	GWA-5 (bg)	GWC-2	GWA-4 (bg)	GWA-7A (bg)	GWA-2B (bg)	GWA-1B (bg)
10/5/1999	<0.002	<0.002	<0.002	<0.002	<0.002			
11/12/1999	<0.002	<0.002	<0.002	<0.002	<0.002			
12/29/1999	<0.002	<0.002	<0.002	<0.002	<0.002			
2/17/2000	<0.002	<0.002	<0.002	<0.002	<0.002			
9/13/2000	<0.002	<0.002	<0.002	<0.002	<0.002			
11/10/2000	<0.002	<0.002	<0.002	<0.002	<0.002			
1/4/2001	<0.002	<0.002	<0.002	<0.002	<0.002			
12/11/2001	<0.002	<0.002	<0.002	<0.002	<0.002			
4/4/2002	<0.002	<0.002	<0.002	<0.002	<0.002			
12/6/2002	<0.002	<0.002	0.0089 (o)	<0.002	<0.002			
6/28/2003	<0.002	<0.002	0.019 (o)	<0.002	<0.002			
12/13/2003	<0.002	<0.002	0.0067 (o)	<0.002	<0.002			
5/28/2004	0.0052	<0.002	0.0057 (o)	<0.002	<0.002			
12/10/2004	<0.002	<0.002	0.0027	0.11 (o)	<0.002			
6/24/2005	<0.002	<0.002	0.0038	<0.002	<0.002			
12/13/2005	<0.002	<0.002	<0.002	<0.002	<0.002			
7/12/2006	0.0055	<0.002	0.0033	<0.002	<0.002			
12/1/2006	<0.002	<0.002	<0.002	<0.002	<0.002			
6/21/2007	0.0032	<0.002	0.0035	<0.002	<0.002			
12/15/2007	<0.002	<0.002	<0.002	<0.002	<0.002			
6/21/2008								<0.002
6/22/2008	<0.002	<0.002	<0.002	<0.002				
12/6/2008		<0.002	<0.002	<0.002				<0.002
12/7/2008	<0.002							
7/10/2009		<0.002						
7/11/2009	<0.002		<0.002	<0.002	<0.002			
12/22/2009			0.0025					
12/23/2009	0.0025	<0.002		<0.002	<0.002			
6/23/2010		<0.002	<0.002	<0.002	<0.002			
6/24/2010	<0.002							
1/8/2011		<0.002	<0.002	<0.002	<0.002			
1/9/2011	0.004							
7/10/2011		<0.002	<0.002	<0.002	<0.002			
7/11/2011	<0.002							
1/19/2012		<0.002						<0.002
1/20/2012	<0.002		<0.002	<0.002				
7/12/2012		<0.002	<0.002	<0.002	<0.002			
7/13/2012	<0.002							
1/21/2013	<0.002	<0.002	<0.002	<0.002	<0.002			
7/20/2013	<0.002	<0.002	<0.002	<0.002	<0.002			
1/17/2014	<0.005 (J)	<0.002	<0.005 (J)	0.0065 (o)	<0.002			
7/12/2014	<0.005 (J)	<0.002	<0.002	<0.002	<0.002			
1/15/2015		<0.002		<0.002	<0.002			
1/16/2015	<0.002		<0.002					
7/15/2015	<0.002	<0.002	<0.002	<0.002	<0.002			
1/16/2016	<0.002	<0.002	<0.002					<0.002
1/17/2016				<0.002				
6/22/2016	0.002 (JD)	0.00205 (JD)	0.001	0.0005 (J)	<0.002			
1/19/2017		<0.002	<0.002		<0.002			
1/24/2017				<0.002				
2/28/2017	<0.002							
7/17/2017	<0.002							

Prediction Limit

Constituent: Copper (mg/L) Analysis Run 3/3/2023 10:27 AM View: PLs Interwell State
 Plant McIntosh Client: Southern Company Data: McIntosh LF 3 CCR

	GWA-1A (bg)	GWA-3A (bg)	GWA-5 (bg)	GWC-2	GWA-4 (bg)	GWA-7A (bg)	GWA-2B (bg)	GWA-1B (bg)
7/18/2017		<0.002			<0.002			
7/19/2017			<0.002	<0.002				
1/8/2018	<0.002							
1/9/2018		<0.002	<0.002	<0.002	0.0025			
7/10/2018	<0.002	<0.002	<0.002	<0.002	<0.002			
1/30/2019	<0.002	<0.002	<0.002		<0.002	0.0018 (J)	0.0035	
1/31/2019				<0.002				
3/27/2019	<0.002		<0.002					
3/28/2019		<0.002		<0.002	<0.002	<0.002	0.0031	
9/11/2019	<0.002							
9/12/2019		0.0024	0.0011 (J)	0.002	0.0022	0.0041	0.0038	
3/10/2020	<0.002	0.00082 (J)	0.0019 (J)		<0.002		0.0021	
3/11/2020						0.0032		
3/31/2020				<0.002				
4/2/2020		0.0019 (J)						
9/21/2020	<0.002	<0.002			<0.002	0.0018 (J)		
9/22/2020			0.0013 (J)	<0.002			0.00096 (J)	
3/23/2021	<0.002	<0.002		<0.002		0.0027	0.0011 (J)	0.0015 (J)
3/24/2021			0.00077 (J)		<0.002			
8/17/2021	<0.002	<0.002	<0.002		<0.002	0.0025	0.0043	<0.002
8/18/2021				<0.002				
2/7/2022						0.008	0.0012 (J)	
2/8/2022	<0.002	0.0011 (J)	<0.002	0.0019 (J)	<0.002			<0.002
8/30/2022	<0.002	0.0029	0.0011 (J)	<0.002	0.0012 (J)	0.0028	0.0013 (J)	<0.002
1/31/2023						<0.002	<0.002	<0.002
2/1/2023		<0.002		<0.002	<0.002			
2/2/2023			0.0018 (J)					

Prediction Limit

Constituent: Lead (mg/L) Analysis Run 3/3/2023 10:27 AM View: PLs Interwell State

Plant McIntosh Client: Southern Company Data: McIntosh LF 3 CCR

	GWA-1A (bg)	GWA-5 (bg)	GWA-3A (bg)	GWA-4 (bg)	GWC-2	GWA-7A (bg)	GWA-2B (bg)	GWA-1B (bg)
10/5/1999	0.007	<0.001	<0.001	<0.001	0.0054 (o)			
11/12/1999	0.0063 (o)	<0.001	<0.001	<0.001	<0.001			
12/29/1999	0.016	<0.001	<0.001	<0.001	<0.001			
2/17/2000	<0.001	<0.001	<0.001	<0.001	<0.001			
9/13/2000	<0.001	<0.001	<0.001	<0.001	<0.001			
11/10/2000	<0.001	<0.001	<0.001	<0.001	<0.001			
1/4/2001	<0.001	<0.001	<0.001	<0.001	<0.001			
12/11/2001	<0.001	<0.001	<0.001	<0.001	<0.001			
4/4/2002	<0.001	<0.001	<0.001	<0.001	<0.001			
12/6/2002	<0.001	0.011	<0.001	<0.001	<0.001			
6/28/2003	<0.001	<0.001	<0.001	<0.001	<0.001			
12/13/2003	<0.001	<0.001	<0.001	<0.001	<0.001			
5/28/2004	0.015	<0.001	<0.001	<0.001	<0.001			
12/10/2004	0.01	<0.001	<0.001	<0.001	<0.001			
6/24/2005	<0.001	<0.001	<0.001	<0.001	<0.001			
12/13/2005	<0.001	<0.001	<0.001	<0.001	<0.001			
7/12/2006	0.013	<0.001	<0.001	<0.001	<0.001			
12/1/2006	<0.001	<0.001	<0.001	<0.001	<0.001			
6/21/2007	<0.001	<0.001	<0.001	<0.001	<0.001			
12/15/2007	<0.001	<0.001	<0.001	<0.001	<0.001			
6/21/2008				<0.001				
6/22/2008	<0.001	<0.001	<0.001		<0.001			
12/6/2008		<0.001	<0.001	<0.001	<0.001			
12/7/2008	<0.001							
7/10/2009			<0.001					
7/11/2009	<0.001	<0.001		<0.001	<0.001			
12/22/2009		<0.001						
12/23/2009	<0.001		<0.001	<0.001	<0.001			
6/23/2010		<0.001	<0.001	<0.001	<0.001			
6/24/2010	<0.001							
1/8/2011		<0.001	<0.001	<0.001	<0.001			
1/9/2011	<0.001							
7/10/2011		<0.001	<0.001	<0.001	<0.001			
7/11/2011	<0.001							
1/19/2012			<0.001	<0.001				
1/20/2012	<0.001	<0.001			<0.001			
7/12/2012		<0.001	<0.001	<0.001	<0.001			
7/13/2012	<0.001							
1/21/2013	<0.001	<0.001	<0.001	<0.001	<0.001			
7/20/2013	<0.001	<0.001	<0.001	<0.001	<0.001			
1/17/2014	<0.001	<0.001	<0.001	<0.001	<0.001			
7/12/2014	<0.001	<0.001	<0.001	<0.001	<0.001			
1/15/2015			<0.001	<0.001	<0.001			
1/16/2015	<0.001	<0.001						<0.001
7/15/2015	<0.001	<0.001	<0.001	<0.001	<0.001			
1/16/2016	<0.001	<0.001	<0.001	<0.001				
1/17/2016								<0.001
6/22/2016	0.00125 (JD)	0.001 (J)	0.00025 (JD)	0.0003 (J)	0.0001 (J)			
8/31/2016		0.00099 (J)	<0.001	<0.001	<0.001			
9/1/2016	0.082 (o)							
1/19/2017		0.001 (J)	<0.001	<0.001				
1/24/2017					<0.001			

Prediction Limit

Constituent: Lead (mg/L) Analysis Run 3/3/2023 10:27 AM View: PLs Interwell State
 Plant McIntosh Client: Southern Company Data: McIntosh LF 3 CCR

	GWA-1A (bg)	GWA-5 (bg)	GWA-3A (bg)	GWA-4 (bg)	GWC-2	GWA-7A (bg)	GWA-2B (bg)	GWA-1B (bg)
2/28/2017	<0.001							
7/17/2017	<0.001							
7/18/2017			<0.001	<0.001				
7/19/2017		0.00081 (J)			<0.001			
9/20/2017	0.00035 (J)		<0.001					
9/21/2017		0.00086 (J)		0.0076	0.0014 (o)			
1/8/2018	<0.001							
1/9/2018		0.00059 (J)	<0.001	0.0023	<0.001			
3/27/2018	<0.001	<0.001	<0.001	<0.001				
3/29/2018					<0.001			
7/10/2018	<0.001	0.00045 (J)	<0.001	<0.001	<0.001			
10/8/2018	<0.001	<0.001		<0.001		<0.001	<0.001	
10/9/2018			<0.001		<0.001			
1/30/2019	0.00021 (J)	0.00064 (J)	0.00034 (J)	0.00013 (J)		<0.001	0.00028 (J)	
1/31/2019					<0.001			
3/27/2019	<0.001	0.0012 (J)						
3/28/2019			0.00038 (J)	<0.001	<0.001	<0.001	<0.001	
9/11/2019	<0.001							
9/12/2019		0.00082 (J)	<0.001	<0.001	<0.001	<0.001	<0.001	
3/10/2020	0.00015 (J)	0.0022	0.00013 (J)	0.00031 (J)			<0.001	
3/11/2020						<0.001		
3/31/2020					<0.001			
4/2/2020			0.00062 (J)					
9/21/2020	<0.001		<0.001	0.00025 (J)		<0.001		
9/22/2020		0.0012			<0.001		<0.001	
3/23/2021	0.00017 (J)		0.00029 (J)		<0.001	<0.001	<0.001	<0.001
3/24/2021		0.00066 (J)		0.00021 (J)				
8/17/2021	<0.001	0.00044 (J)	0.00015 (J)	<0.001		<0.001	0.00073 (J)	<0.001
8/18/2021					<0.001			
2/7/2022						<0.001	<0.001	
2/8/2022	<0.001	0.00058 (J)	<0.001	<0.001	<0.001			<0.001
8/30/2022	<0.001	0.00064 (J)	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
1/31/2023						<0.001	<0.001	<0.001
2/1/2023			0.00027 (J)	<0.001	<0.001			
2/2/2023		0.0013						

Prediction Limit

Constituent: Vanadium (mg/L) Analysis Run 3/3/2023 10:27 AM View: PLs Interwell State

Plant McIntosh Client: Southern Company Data: McIntosh LF 3 CCR

	GWA-1A (bg)	GWA-3A (bg)	GWA-5 (bg)	GWC-4A	GWA-4 (bg)	GWC-2	GWA-7A (bg)	GWA-2B (bg)	GWA-1B (bg)
10/5/1999	0.02	<0.002	<0.002	<0.002	<0.002	0.015 (o)			
11/12/1999	0.027	<0.002	<0.002	<0.002	<0.002	<0.002			
12/29/1999	0.055	<0.002	<0.002	<0.002	<0.002	<0.002			
2/17/2000	0.042	<0.002	<0.002	<0.002	<0.002	<0.002			
9/13/2000	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002			
11/10/2000	0.014	<0.002	<0.002	<0.002	<0.002	<0.002			
1/4/2001	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002			
12/11/2001	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002			
4/4/2002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002			
12/6/2002	<0.002	<0.002	0.03	<0.002	<0.002	<0.002			
6/28/2003	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002			
12/13/2003	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002			
5/28/2004	0.017	<0.002	<0.002	<0.002	<0.002	<0.002			
12/10/2004	0.0082	<0.002	<0.002	<0.002	<0.002	<0.002			
6/24/2005	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002			
12/13/2005	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002			
7/12/2006	0.023	<0.002	<0.002	<0.002	<0.002	<0.002			
12/1/2006	0.0081	<0.002	<0.002	<0.002	<0.002	<0.002			
6/21/2007	0.009	0.0038	0.07 (o)	<0.002	<0.002	<0.002			
12/15/2007	0.0056	<0.002	<0.002	<0.002	<0.002	<0.002			
6/21/2008				<0.002	<0.002				
6/22/2008	0.013	<0.002	0.0026					<0.002	
12/6/2008		<0.002	<0.002	<0.002	<0.002	<0.002		<0.002	
12/7/2008	0.0027								
7/10/2009		<0.002							
7/11/2009	0.0032		<0.002	<0.002	<0.002	<0.002		<0.002	
12/22/2009			<0.002						
12/23/2009	0.0093	<0.002		<0.002	<0.002	<0.002		<0.002	
6/23/2010		<0.002	<0.002	<0.002	<0.002	<0.002		<0.002	
6/24/2010	0.0033								
1/8/2011		<0.002	<0.002	<0.002	<0.002	<0.002		<0.002	
1/9/2011	<0.002								
7/10/2011		<0.002	<0.002	<0.002	<0.002	<0.002		<0.002	
7/11/2011	<0.002								
1/19/2012		<0.002			<0.002				
1/20/2012	<0.002		<0.002	<0.002				<0.002	
7/12/2012		<0.002	<0.002	<0.002	<0.002	<0.002		<0.002	
7/13/2012	0.011								
1/21/2013	0.028	<0.002	<0.002	<0.002	<0.002	<0.002		<0.002	
7/20/2013	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002		<0.002	
1/17/2014	0.019	<0.002	<0.002	<0.002	<0.002	<0.002		<0.002	
7/11/2014				<0.002					
7/12/2014	<0.005 (J)	<0.002	<0.002		<0.002	<0.002		<0.002	
1/15/2015		<0.002			<0.002	<0.002		<0.002	
1/16/2015	0.0012 (J)		0.0011 (J)	<0.002					
7/15/2015	<0.002	<0.002	0.0016 (J)	<0.002	<0.002	<0.002		<0.002	
1/16/2016	0.0015 (J)	0.0011 (J)	<0.002		0.00082 (J)				
1/17/2016				<0.002				<0.002	
6/22/2016	0.0081 (JD)	<0.002	0.0018 (J)	<0.002	<0.002	<0.002		0.0019 (J)	
1/19/2017		<0.002	0.0033		0.0025				
1/24/2017								0.0062	
1/25/2017				<0.002					

Prediction Limit

Constituent: Vanadium (mg/L) Analysis Run 3/3/2023 10:27 AM View: PLs Interwell State
 Plant McIntosh Client: Southern Company Data: McIntosh LF 3 CCR

	GWA-1A (bg)	GWA-3A (bg)	GWA-5 (bg)	GWC-4A	GWA-4 (bg)	GWC-2	GWA-7A (bg)	GWA-2B (bg)	GWA-1B (bg)
2/28/2017	0.0019 (J)								
7/17/2017	<0.002								
7/18/2017		<0.002			<0.002				
7/19/2017			0.0045			0.0015 (J)			
7/20/2017				<0.002					
1/8/2018	<0.002								
1/9/2018		<0.002	0.0027	<0.002	0.0072	<0.002			
7/10/2018	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002			
1/30/2019	<0.002	<0.002	0.0019 (J)	<0.002	<0.002		<0.002	<0.002	
1/31/2019						<0.002			
3/27/2019	<0.002		<0.002						
3/28/2019		<0.002		<0.002	<0.002	<0.002	<0.002	<0.002	
9/11/2019	0.0014								
9/12/2019		0.002	0.004	0.0021	0.0017	0.0018	0.002	0.0021	
3/10/2020	<0.002	<0.002	0.01		<0.002			<0.002	
3/11/2020							<0.002		
3/31/2020				<0.002		<0.002			
4/2/2020		0.0013							
9/21/2020	<0.002	<0.002			0.0012		<0.002		
9/22/2020			0.0056	<0.002		<0.002		<0.002	
3/23/2021	<0.002	<0.002				<0.002	<0.002	<0.002	<0.002
3/24/2021			0.0018	<0.002	<0.002				
8/17/2021	<0.002	<0.002	0.0018		<0.002		<0.002	<0.002	<0.002
8/18/2021				<0.002		<0.002			
2/7/2022							0.0011	<0.002	
2/8/2022	<0.002	<0.002	0.0023		<0.002	<0.002			<0.002
2/9/2022				<0.002					
8/30/2022	0.0019	<0.002	0.0028	<0.002	<0.002	<0.002	0.0016	0.0016	0.0019
1/31/2023							<0.002	<0.002	<0.002
2/1/2023		<0.002		<0.002	<0.002	<0.002			
2/2/2023			0.0041						

Prediction Limit

Constituent: Zinc (mg/L) Analysis Run 3/3/2023 10:27 AM View: PLs Interwell State

Plant McIntosh Client: Southern Company Data: McIntosh LF 3 CCR

	GWA-1A (bg)	GWA-5 (bg)	GWC-2	GWC-4A	GWA-4 (bg)	GWA-3A (bg)	GWA-2B (bg)	GWA-7A (bg)	GWA-1B (bg)
10/5/1999	0.043	<0.005	0.028	<0.005	0.039	0.023			
11/12/1999	0.035	<0.005	<0.005	<0.005	0.025	<0.005			
12/29/1999	0.058	<0.005	0.022	<0.005	0.023	<0.005			
2/17/2000	0.051	<0.005	0.021	<0.005	<0.005	<0.005			
9/13/2000	<0.005	0.021	<0.005	0.036 (o)	0.035	<0.005			
11/10/2000	<0.005	<0.005	<0.005	<0.005	0.023	<0.005			
1/4/2001	<0.005	<0.005	<0.005	<0.005	0.027	<0.005			
12/11/2001	<0.005	<0.005	<0.005	<0.005	0.036	<0.005			
4/4/2002	<0.005	<0.005	0.069 (o)	<0.005	0.038	<0.005			
12/6/2002	<0.005	0.06	0.012	0.012	0.033	<0.005			
6/28/2003	<0.005	0.19 (o)	0.011	<0.005	0.018	<0.005			
12/13/2003	<0.005	0.067	<0.005	<0.005	0.013	<0.005			
5/28/2004	0.034	0.068	<0.005	<0.005	<0.005	<0.005			
12/10/2004	0.021	0.039	0.027	<0.005	<0.005	<0.005			
6/24/2005	<0.005	0.033	<0.005	<0.005	<0.005	<0.005			
12/13/2005	0.013	0.039	0.011	<0.005	0.011	<0.005			
7/12/2006	0.074	0.022	0.0064	<0.005	0.0055	0.0047			
12/1/2006	0.048	0.018	0.0077	0.098 (o)	0.0052	0.065			
6/21/2007	0.067	0.058	0.0082	0.0043	0.0062	0.008			
12/15/2007	0.053	0.0072	0.0063	0.0057	0.0055	0.0043			
6/21/2008				0.0064	0.011				
6/22/2008	0.024	0.011	0.0074			0.0062			
12/6/2008		0.011	0.0066	0.0052	0.008	0.051			
12/7/2008	0.0087								
7/10/2009						0.0043			
7/11/2009	0.045	0.013	0.0054	0.0049	0.011				
12/22/2009		0.013							
12/23/2009	0.054		0.0046	0.005	0.0051	0.0039			
6/23/2010		0.0084	0.0041	0.0044	0.0031	<0.005			
6/24/2010	0.0065								
1/8/2011		0.0089	0.019	0.0036	0.0035	0.0037			
1/9/2011	0.022								
7/10/2011		0.0084	0.005	0.0046	0.0081	0.0047			
7/11/2011	0.0032								
1/19/2012					0.017	0.0045			
1/20/2012	0.0089	0.0094	0.007	0.0045					
7/12/2012		0.0098	0.0045	0.0041	0.01	0.0033			
7/13/2012	0.012								
1/21/2013	0.024	0.007	0.0045	0.0038	0.013	0.0038			
7/20/2013	0.0068	0.0074	<0.005	0.0047	<0.005	0.004			
1/17/2014	0.02	0.0092	0.0075	0.0051	0.0066	0.005			
7/11/2014				0.0066					
7/12/2014	0.0055	0.013	0.0051		0.0054	0.004			
1/15/2015			0.0054		0.0076	0.0056			
1/16/2015	0.0043	0.0081		0.0046					
7/15/2015	0.0026	0.009	0.0049	0.0036	0.0053	0.0034			
1/16/2016	0.0035	0.007			0.0048	0.0038			
1/17/2016			0.0051	0.004					
6/22/2016	0.00805 (JD)	0.0091 (J)	0.0087 (J)	0.0053 (J)	0.0038 (J)	0.00575 (JD)			
1/19/2017		0.0065 (J)			<0.005	<0.005			
1/24/2017			0.0071 (J)						
1/25/2017				<0.005					

Prediction Limit

Constituent: Zinc (mg/L) Analysis Run 3/3/2023 10:27 AM View: PLs Interwell State
 Plant McIntosh Client: Southern Company Data: McIntosh LF 3 CCR

	GWA-1A (bg)	GWA-5 (bg)	GWC-2	GWC-4A	GWA-4 (bg)	GWA-3A (bg)	GWA-2B (bg)	GWA-7A (bg)	GWA-1B (bg)
2/28/2017	<0.005								
7/17/2017	<0.005								
7/18/2017					<0.005	<0.005			
7/19/2017		0.0099 (J)	<0.005						
7/20/2017				<0.005					
1/8/2018	<0.005								
1/9/2018		0.014 (J)	0.0079 (J)	<0.005	0.0072 (J)	<0.005			
7/10/2018	<0.005	0.0089 (J)	0.0067 (J)	<0.005	<0.005	<0.005			
1/30/2019	<0.005	0.0057 (J)		0.0042 (J)	0.006 (J)	0.0058 (J)	0.013 (J)	0.011 (J)	
1/31/2019			<0.005						
3/27/2019	<0.005	0.01 (J)							
3/28/2019			0.0069 (J)	<0.005	<0.005	<0.005	0.014 (J)	0.0086 (J)	
9/11/2019	0.0062								
9/12/2019		0.0074	0.0089	0.0093	0.0073	0.0081	0.0075	0.014	
3/10/2020	<0.005	0.0071			0.0079	0.0079	0.0061		
3/11/2020								0.0099	
3/31/2020			0.0065	<0.005					
4/2/2020						0.011			
9/21/2020	<0.005				0.013	0.0055		0.007	
9/22/2020		0.039	0.029	0.017			0.0066		
3/23/2021	<0.005		0.0085			0.0092	0.0066	0.0096	0.0098
3/24/2021		0.0085		0.01	0.0058				
8/17/2021	0.048	0.024			0.029	0.014	0.026	0.052	0.024
8/18/2021			0.0081	0.012					
2/7/2022							0.0046 (J)	0.0098	
2/8/2022	0.0031 (J)	0.007	0.0078		0.007	0.013			0.0048 (J)
2/9/2022				0.0039 (J)					
8/30/2022	<0.005	0.013	0.012	0.0046 (J)	0.01	0.012	0.014	0.0089	0.003 (J)
1/31/2023							0.012	0.0082	<0.005
2/1/2023			0.0062	<0.005	0.0089	0.0071			
2/2/2023		0.0095							

APPENDIX D

ALTERNATE SOURCE DEMONSTRATION



Plant McIntosh Inactive Landfill No. 3

Permit No. 051-008D(LI)

Effingham County

UPDATE TO BARIUM AND COBALT ALTERNATE SOURCE DEMONSTRATIONS

The logo for Atlantic Coast Consulting, Inc., featuring the letters "ACC" in a white, stylized, cursive font.

ATLANTIC COAST
CONSULTING, INC.

TABLE OF CONTENTS

<u>Section</u>	<u>Page No.</u>
CERTIFICATION STATEMENT	1
1.0 INTRODUCTION	2
2.0 BACKGROUND.....	2
2.1 Geology of Coastal Plain.....	2
3.0 ALTERNATE SOURCE DEMONSTRATION.....	3
3.1 Supplemental Analytical Data.....	3
3.2 Surface Hydrology.....	6
3.3 Geochemistry and Analytical Data Quality	7
3.3.1 Barium.....	7
3.3.2 Cobalt	8
4.0 SUMMARY AND RECOMMENDATIONS	9
5.0 REFERNECES	10

Tables

Table 1 – Summary of Groundwater Analytical Data February 2022

Figure

Figure 1 – Site Location Map

Figure 2 – Potentiometric Contour Map February 2022

Attachments

Attachment A

ERM. Alternate Source Demonstration – Plant McIntosh Ash Disposal Site No. 3.
August 2017.

GEI, Alternate Source Demonstration – Plant McIntosh Inactive Landfill No. 3.
February 2020.

CERTIFICATION STATEMENT

I hereby certify that the information contained in this alternate source demonstration is accurate in accordance with 40 CFR 257.94(e)(2) and the Georgia Environmental Protection Division (GA EPD) Rules for Solid Waste Management, Rule 391-3-4-.10(6)(a). I hereby certify that I am a qualified groundwater scientist, in accordance with the Georgia Rules of Solid Waste Management, and 40 CFR Part 258.50(g).

ATLANTIC COAST CONSULTING, INC.



Charles B. Adams, P.G.
Georgia Registered Professional
Geologist No. 1632
Preparer
Date: September 29, 2022



Chad Hall, PhD, P.E.
Georgia Registered Professional
Engineer No. PE040688
Reviewer
Date: September 29, 2022

1.0 INTRODUCTION

Georgia Power Company (GPC) is providing this update to previously submitted Alternate Source Demonstrations (ASDs) for two statistically significant increases (SSIs) at Plant McIntosh Inactive Landfill No. 3 (Site). The previous ASDs were submitted for SSIs of barium, cobalt, and chromium in groundwater monitoring well GWC-5. The ASDs were submitted to Georgia Environmental Protection Division (EPD) on August 9, 2017, and February 27, 2020 (ERM, 2017 and GEI, 2020). The SSI for chromium discussed in the 2020 ASD is not a current SSI and is not discussed in this update. GPC is submitting this update in support of the proposed abandonment of GWC-5 and replacement with GWC-5A, which is more representative of the groundwater conditions at the Site.

Because these ASDs have not been approved by EPD, this document compiles information from the 2017 and 2020 ASDs and provides additional data since submittal to illustrate that alternate source conditions indicated in the original ASDs still exist. Copies of these ASDs are provided in **Attachment A**.

New information provided in this update supports data from the 2017 and 2020 ASDs that occurrences of barium and cobalt are a natural variation in groundwater quality and verifies that the conditions that caused solubility of barium and cobalt still exist; however, the original geochemical conditions are subsiding and as a result so are barium and cobalt concentrations. As summarized in this update, barium and cobalt concentrations are low with stable trends (within an order of magnitude of background levels). No SSIs of coal combustion residual (CCR) indicator parameters (Appendix III) and the lack of increases or detections of other more mobile constituents such as boron, chloride, or sulfate demonstrate no correlation to barium or cobalt. Barium and cobalt concentrations in GWC-5 increase with higher groundwater elevations attributable to surface hydrology. This ASD Update has been prepared pursuant to 40 CFR 257.94(e)(2) and Georgia EPD Rules for Solid Waste Management Chapter 391.-3-4-.10(6)(a) and demonstrates that the SSIs resulted from natural variation in groundwater quality.

2.0 BACKGROUND

GPC Plant McIntosh is located at 981 Old Augusta Road Central, in Effingham County, Georgia, approximately 4 miles northeast of the City of Rincon, and 18 miles north of the City of Savannah. The plant is situated on approximately 2,300 acres west of the Savannah River. Plant McIntosh Inactive Landfill No. 3 (Site) is located on the southwestern portion of the plant property. The Site is permitted under EPD Permit No. 051-008D(LI) and was issued a closure certificate on March 21, 2008. **Figure 1**, Site Location Map, depicts the Plant location referenced to regional landmarks. A recent potentiometric surface map is provided for reference as **Figure 2**, Potentiometric Contour Map February 2022.

2.1 Geology of Coastal Plain

The Site is situated in the Coastal Plain Physiographic Province. Coastal Plain sediments are Cretaceous to Pleistocene age and consist of stratified marine deposits and materials eroded from crystalline rock of the Piedmont Region. Sediments are typically clay, silt, and sand that overlay limestone/shale rock resting on older igneous and metamorphic basement rocks. These older, crystalline rocks dip to the south and east causing the overlying sediments to form a wedge-shaped deposit that is thickest to the east and the south. The Coastal Plain deposits crop out at

the land surface in bands, from oldest to most recent, from the Fall Line to the coast. Pleistocene-aged deposits are at the surface in this region.

3.0 ALTERNATE SOURCE DEMONSTRATION

As allowed by §257.94(e)(2) and EPD Rule 391.-3-4-.10(6)(a), the Site may demonstrate that a source other than the CCR unit caused the SSI for a constituent or that the SSI resulted from error in sampling, analysis, statistical evaluation, or natural variation in groundwater quality. This update demonstrates an alternate source for barium and cobalt SSIs in monitoring well GWC-5. Barium was initially identified as an SSI January 2017 and cobalt was initially identified as an SSI August 2019. Both barium and cobalt were identified as SSIs in GWC-5 during the First 2022 Semi-annual groundwater monitoring event (ACC, 2022). A summary of the February 2022 concentrations and statistical prediction limits are provided below:

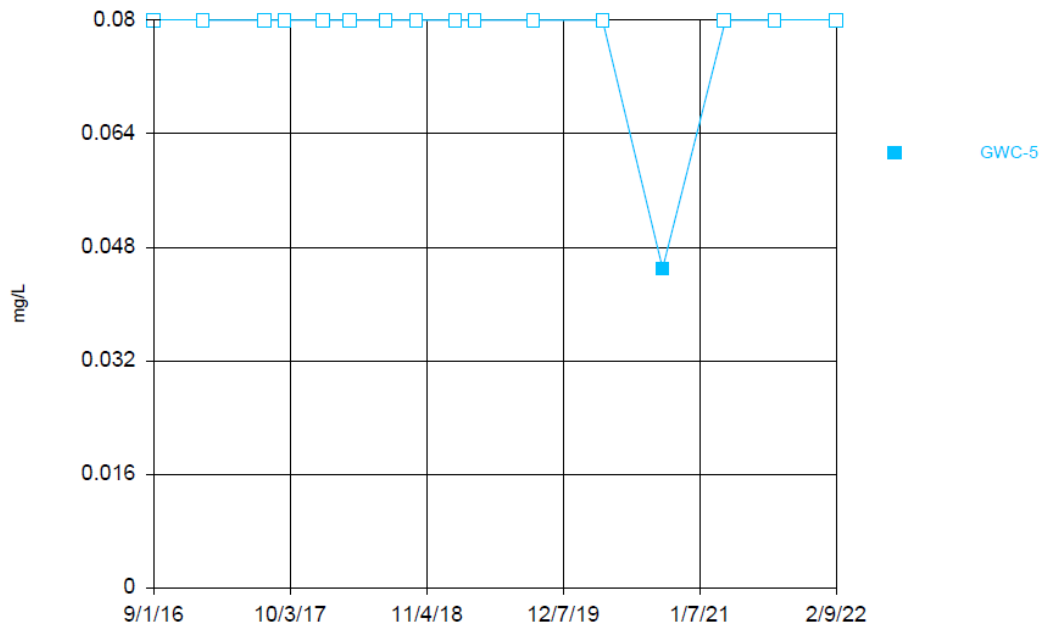
Constituent	Location	Concentration	Interwell Prediction Limit
Barium	GWC-5	0.36	0.33
Cobalt	GWC-5	0.011	0.0072

1. Units are milligrams per liter (mg/L).
2. Sample collected February 9, 2022.

The February 2022 semiannual groundwater monitoring laboratory data are summarized in the attached **Table 1** (ACC, 2022).

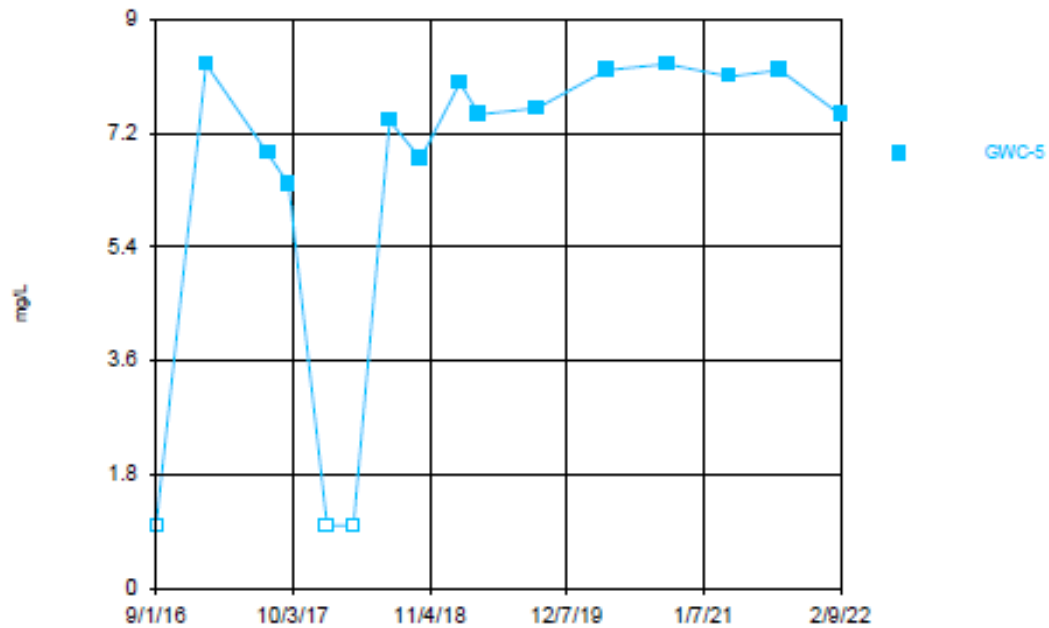
3.1 Supplemental Analytical Data

As detailed in the following subsections, these SSIs are not the result of a release from the unit and are the result of natural variability in groundwater quality. These ubiquitous metals and their SSIs occur without SSIs of other Appendix III constituents that would be indicative of a CCR release. A release from the unit would cause multiple Appendix III SSIs for parameters such as boron, chloride, and sulfate. This has not occurred. Most notably, boron was not detected above the reporting limit in GWC-5 samples (see attached **Table 1** for the estimated “J” value reported for GWC-5). The absence of multiple Appendix III SSIs supports the conclusion that the SSIs are not the result of a release from the unit. The graphs presented below show currently collected analytical data for Appendix III parameters and permit required parameters barium and cobalt.

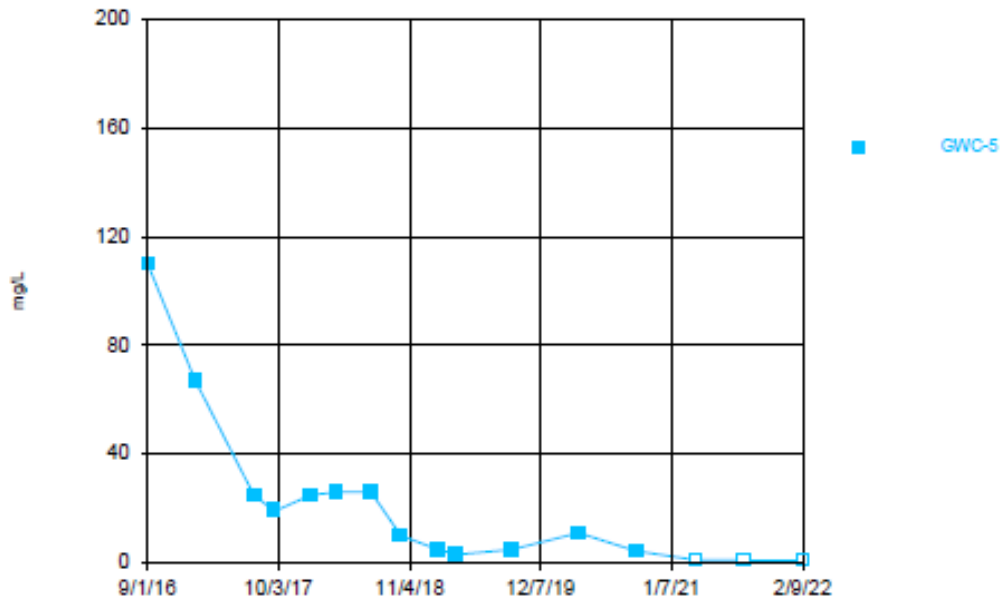


Constituent: Boron Analysis Run 6/30/2022 2:57 PM

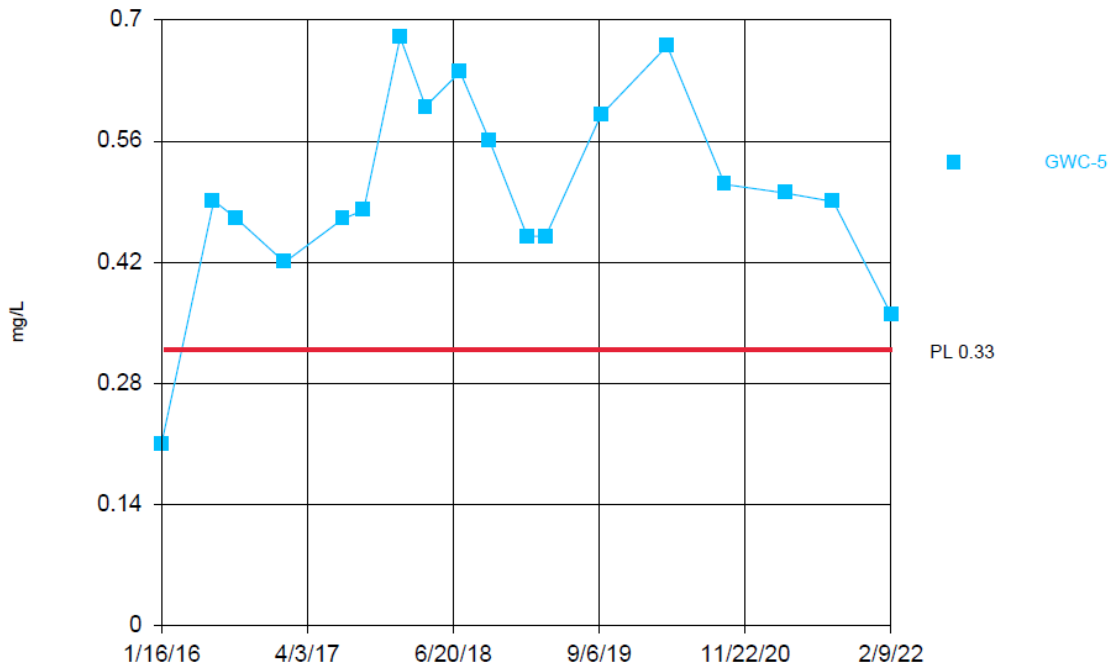
Note: the 9/22/2020 boron detection is an estimated value of 0.045 mg/L below the reporting limit of 0.08 mg/L (near background).



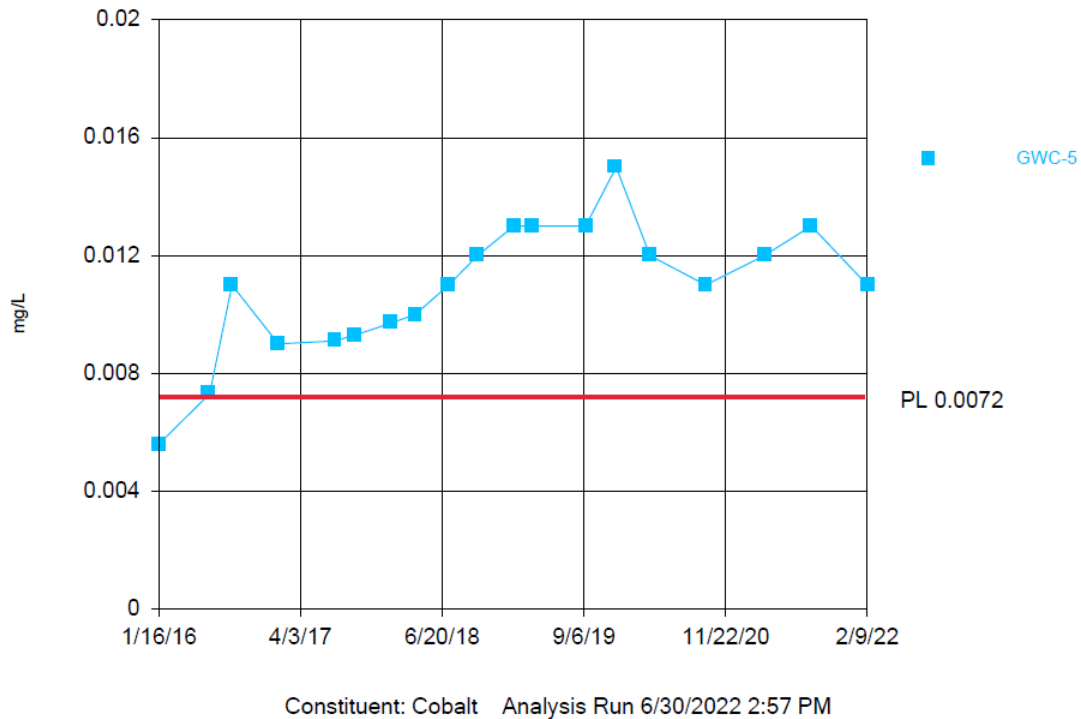
Constituent: Chloride Analysis Run 6/14/2022 5:32 PM View: Time Series
 Plant McIntosh Client: Southern Company Data: McIntosh LF 3 CCR



Constituent: Sulfate Analysis Run 6/14/2022 5:32 PM View: Time Series
 Plant McIntosh Client: Southern Company Data: McIntosh LF 3 CCR



Constituent: Barium Analysis Run 6/30/2022 2:57 PM



3.2 Surface Hydrology

The 2017 and 2020 ASDs for barium and cobalt attributed observed concentrations and SSIs to localized changes in geochemistry. Changes in surface water hydrology are documented to have affected geochemistry local to GWC-5 in the ASD for barium SSIs (ERM, 2017). GWC-5 is also located along the edge of a ditch that is susceptible to flooding during periods of heavy rainfall. The changes to surface water hydrology at the Site included:

- Tree removal in 2013 and 2015 (depicted in Figure 2 of Attachment A)
- Woody debris from the clearing prevented surface water outflow (expansion of wetland area - depicted in aerial photo of Attachment A)
- Repair of the access road in 2016 and additional clearing in the buffer zone November 2020
- Subsequent increase in groundwater levels due to historically high surface water levels in 2016

The location of the tree removal and expanded wetland is closest to well GWC-5 and would affect this area due to proximity. As noted in a previous ASD (ACC 2020c), groundwater elevations increased on a site-wide basis between December 2019 and March 2020, but GWC-5 increased by 7.09 feet more than for most Site wells and was not consistent with historical trends (i.e., the water level from GWC-5 was not able to be used to construct the March 2020 potentiometric contour map). This illustrated that during periods of higher precipitation, the low permeability lithology at GWC-5 creates a localized, low-yielding perched zone that is not consistent across the Site.

3.3 Geochemistry and Analytical Data Quality

As noted in the 2017 and 2020 ASDs provided in **Attachment A**, there is a natural variation in groundwater quality based on Site lithology and monitoring interval of the aquifer. Because the Site aquifer is composed of clay, silt, and sand, there is slight variation in mineral and ionic content of groundwater. The location of the well screen within these coastal plain sediments can affect the metals as discussed below.

3.3.1 Barium

The barium concentrations in groundwater and SSIs are a natural variation in groundwater where:

- No SSIs of CCR indicator parameters (Appendix III) and the lack of increases or detections of other more mobile constituents such as boron, chloride, or sulfate demonstrate no correlation to barium.
- Barium is naturally occurring in local geology and the Site.
- Barium is present in all Site groundwater samples and has been detected in all monitoring wells and all groundwater samples collected at the Site since 1999.
- Barium concentrations in GWC-5 increase with higher groundwater elevations.

As documented in the U.S. Geological Survey Professional Paper¹ 1270, barium is ubiquitous in soils in the eastern U.S. Barium in soils in the eastern U.S. ranges from 10 to 1,500 parts per million (ppm). The 2017 ASD also documented barium in Coastal Plain sediments and in Site-specific groundwater samples:

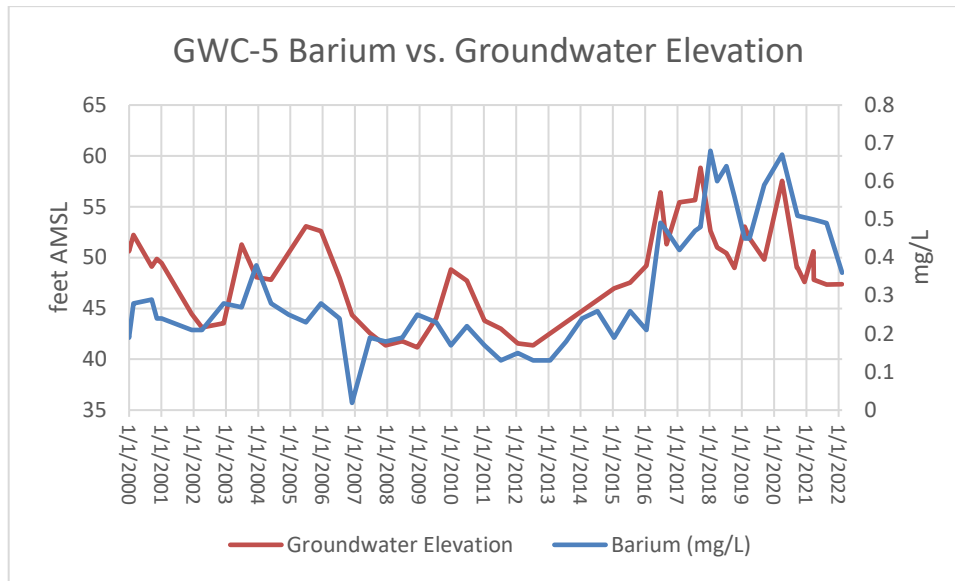
“Barium has been detected in all monitoring wells and all groundwater samples collected at Ash Disposal Site No. 3 since 1999. The highest concentration of barium detected at Ash Disposal Site No. 3 is 0.491 mg/L². Based on information presented below, barium is naturally occurring in local geology, groundwater, and at the site.”

Barium is an alkaline earth metal and occurs in nature as a free metal and as salts. Barite (BaSO₄) and witherite (BaCO₃) are the two most common barium minerals. Barium is commonly found in clays and other silicate minerals (i.e. alkali feldspar, plagioclase, pyroxene, amphibole, and micas) as a result of ion exchange (Choudhury & Cary, 2001). Silicate minerals are commonly found in weathered material from crystalline rock of the Piedmont which has been deposited as Coastal Plain sediments at the site (Clarke & Washington, 1924). In addition to barium being naturally present in Coastal Plain sediments, barium is naturally occurring in groundwater in the Coastal Plain (Lee, 1993).”

The ubiquity of barium in soils is also demonstrated where barium concentrations in groundwater samples from GWC-5 increase with higher groundwater elevations (see graph).

¹ Data reevaluated in U.S. Geological Survey Professional Paper 1648 indicating that the reliability of the soil maps is good, and that data can be used to establish general baselines against which more specific natural geochemical variations can be evaluated.

² The reference to a specific report table is excerpted from this quotation.



Notes: AMSL = above Mean Sea Level, mg/L = milligrams per Liter

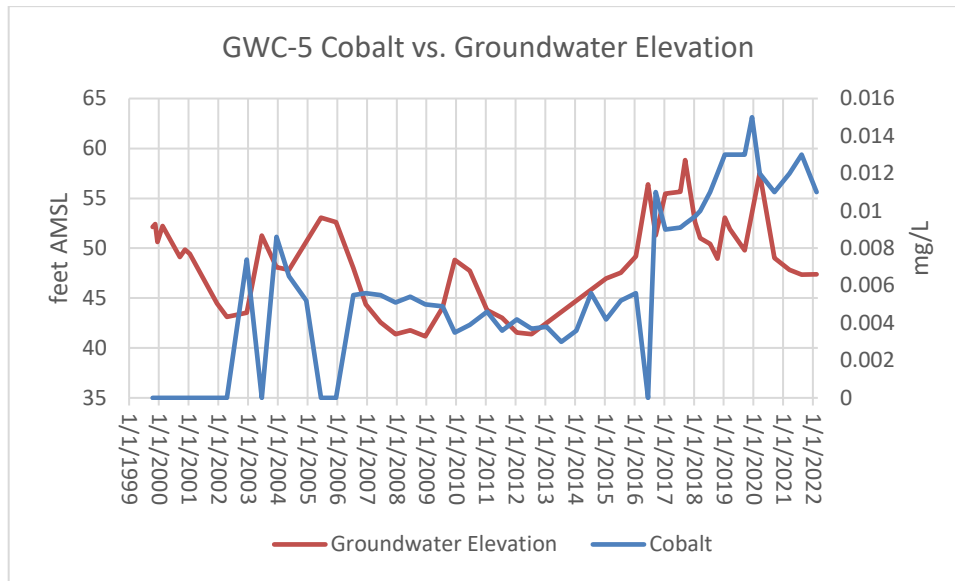
The 2017 ASD indicated an increase in dissolved ions in groundwater due to the anerobic conditions created by the expansion of wetland areas (described in Section 3.2). The 2017 ASD graphed barium concentrations and specific conductance noting an increase in specific conductance after 2016 (see Figure 4 of ERM, 2017). These conditions hold true with current data where there is a peak in barium concentrations after 2016. Barium shows current downward trends that concur with the induced changes to localized geochemistry and hydrology. As demonstrated in the graph above, the repairs to the road and installation of a drainage culvert improved drainage and clearing of the buffer zone appears to be lowering groundwater toward pre-2016 levels.

3.3.2 Cobalt

The cobalt concentrations in groundwater and SSIs are a natural variation in groundwater where:

- No SSIs of CCR indicator parameters (Appendix III) and the lack of increases or detections of other more mobile constituents such as boron, chloride, or sulfate demonstrate no correlation to cobalt.
- Cobalt is naturally occurring in local geology and the Site.
- Cobalt occurrences in groundwater can be attributed to localized changes in geochemistry.
- Cobalt concentrations in GWC-5 increase with higher groundwater elevations.

As documented in the U.S. Geological Survey Professional Paper 1270, cobalt is ubiquitous in soils in the eastern U.S. Cobalt in the eastern U.S. ranges from <0.3 to 70 ppm. The ubiquity of cobalt in soils is demonstrated where groundwater cobalt concentrations in samples from GWC-5 increase with higher groundwater elevations (see graph).



Notes: AMSL = above Mean Sea Level, mg/L = milligrams per Liter

Based on the time series observations, groundwater conditions and metals concentrations at GWC-5 were influenced by changes to surface water hydrology from 2016; however, groundwater at GWC-5 appears to be returning to pre-2016 conditions. Recent sampling data indicates that concentrations are low with stable trends (within an order of magnitude of background levels).

4.0 SUMMARY AND RECOMMENDATIONS

Based on a review and evaluation of available information the barium and cobalt SSIs are not the result of a release from the CCR unit. Barium and cobalt concentrations and SSIs are a natural variation in groundwater quality because:

- No SSIs of CCR indicator parameters (Appendix III) and the lack of increases or detections of other more mobile constituents such as boron, chloride, or sulfate demonstrate no correlation to barium or cobalt.
- Concentrations are low with stable trends (within an order of magnitude of background levels),
- Concentrations and SSIs are attributed to localized geochemical variability due to temporary documented changes to surface hydrology,
- Barium and cobalt concentrations in GWC-5 increase with higher groundwater elevations attributable to surface hydrology (natural variation in groundwater quality).

This ASD Update demonstrates that the SSIs are not the result of a release from the Unit. The barium and cobalt concentrations and SSIs are attributed to natural occurrence per 391-3-4-.14(23)(c). Therefore, pursuant to 40 CFR 257.94(e)(2) and EPD Rules for Solid Waste Management Chapter 391.-3-4-.10(6)(a), the Site will remain in detection monitoring.

GPC recommends abandoning well GWC-5 and utilizing the well complement GWC-5A as described in the *Minor Modification Request*. The well complement GWC-5A provides data most representative of groundwater conditions within the uppermost aquifer at the Site.

5.0 REFERNECES

Atlantic Coast Consulting, Inc. (ACC), 2020. 2020 Annual Groundwater Monitoring and Corrective Action Report – Plant McIntosh Inactive Landfill No. 3, July 2020.

Atlantic Coast Consulting, Inc. (ACC), 2020b. Groundwater Well Installation and Abandonment Report – Plant McIntosh Inactive Landfill No. 3, February 2020.

Atlantic Coast Consulting, Inc. (ACC), 2020c. Alternate Source Demonstration, Plant McIntosh Inactive Landfill No.3, September 2020.

Atlantic Coast Consulting, Inc. (ACC), 2022. 2022 Annual Groundwater Monitoring and Corrective Action Report– Plant McIntosh Inactive Landfill No. 3, July 2022.

Environmental Resources Management (ERM), 2017. Alternate Source Demonstration –Plant McIntosh Ash Disposal Site No. 3, August 2017.

GEI Consultants, Inc. (GEI), 2020. Alternate Source Demonstration –Plant McIntosh CCR Inactive Landfill No.3, February 2020.

GEI Consultants, Inc. (GEI), 2020. Monitoring Well Abandonment Request –Plant McIntosh CCR Inactive Landfill No.3, February 2020.

Groundwater Stats Consulting. (GSC), 2020. Plant McIntosh Landfill #3 Statistical Analysis – March/April 2020 Semi-Annual Sample Event, June 2020.

Lee, R., 1993. Geochemistry of Groundwater in the Southeastern Coastal Plain Aquifer System in Mississippi, Alabama, Georgia, and South Carolina Professional Paper 1410-D. Washington: U.S. Geological Survey.

Shacklette, Hansford T. and Boerngen, Josephine G., 1984. Element Concentrations in Soils and Other Surficial Materials of the Conterminous United States, U.S. Geological Survey Professional Paper 1270, 1984.

Thomas, A.G., 1986. Specific Conductance as an Indicator of Total Dissolved Solids in Cold, Dilute Waters, Hydrological Sciences Journal, 31,1, p81-92, March 1986.

U.S. EPA Waste Management Division Office of Solid Waste, 1989, EPA 530/SW89-031 Interim Final RCRA Investigation (RFI) Guidance, Volume II or IV.

TABLES

Table 1
Summary of Groundwater Analytical Data
February 2022
Plant McIntosh Inactive Landfill No. 3
Effingham County, Georgia

Substance		Well ID							
		GWA-1A	GWA-1B	GWA-2B	GWA-3A	GWA-4	GWA-5	GWA-7A	GWC-1
		2/8/2022	2/8/2022	2/7/2022	2/8/2022	2/8/2022	2/8/2022	2/7/2022	2/9/2022
APPENDIX III	Boron	<0.060	0.084	0.54	0.077 J	<0.060	<0.060	0.60	<0.060
	Calcium	1.7	2.7	12	3.3	1.3	2.8	11	0.23 J
	Chloride	8.6	9.5	6.7	23	6.4	12	7.6	11
	Fluoride	<0.026	0.077 J	0.027 J	0.033 J	0.061 J	0.12	<0.026	<0.026
	pH	5.17	5.43	5.70	4.69	4.93	4.67	5.29	5.01
	Sulfate	<0.76	2.8	42	<0.76	5.9	13	54	<0.76
	TDS	45	39	120	62	29	57	150	52
Required by Permit	Barium	0.024	0.019	0.047	0.10	0.054	0.10	0.096	0.030
	Beryllium	<0.00027	<0.00027	0.00071 J	0.00061 J	<0.00027	<0.00027	<0.00027	<0.00027
	Chromium	0.0051	<0.0015	<0.0015	<0.0015	<0.0015	0.0030	<0.0015	<0.0015
	Cobalt	0.00029 J	0.00032 J	0.00073 J	0.0019 J	0.00096 J	0.0010 J	0.0024 J	0.00030 J
	Copper	<0.0011	<0.0011	0.0012 J	0.0011 J	<0.0011	<0.0011	0.0080	<0.0011
	Lead	<0.00017	<0.00017	<0.00017	<0.00017	<0.00017	0.00058 J	<0.00017	<0.00017
	Vanadium	<0.00078	<0.00078	<0.00078	<0.00078	<0.00078	0.0023	0.0011	<0.00078
	Zinc	0.0031 J	0.0048 J	0.0046 J	0.013	0.0070	0.0070	0.0098	<0.0029

Notes:

1. Results for substances are reported in milligrams per liter (mg/L). pH results are reported in Standard Units.
2. < indicates the substance was not detected above the relevant laboratory method detection limit (MDL).
3. 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 (value J) is qualified by the laboratory as an estimated number.
4. TDS indicates total dissolved solids.
5. Appendix III = indicator parameters evaluated during Detection Monitoring.
6. Parameters required by permit are Appendix I parameters included to meet GA EPD Rule 391-3-4-.14 requirements.

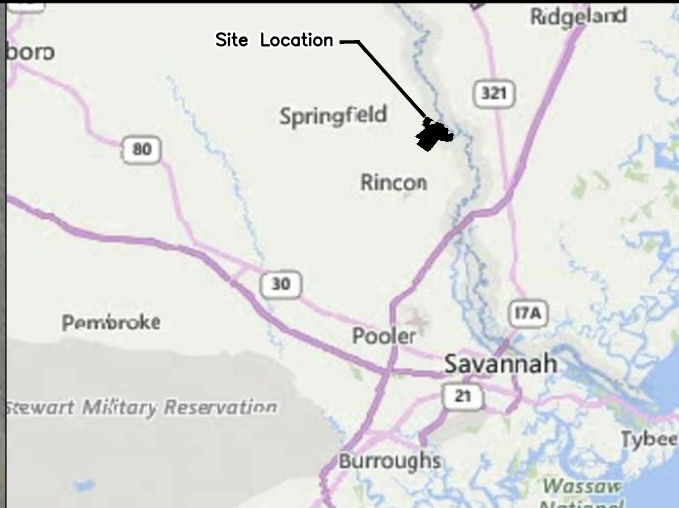
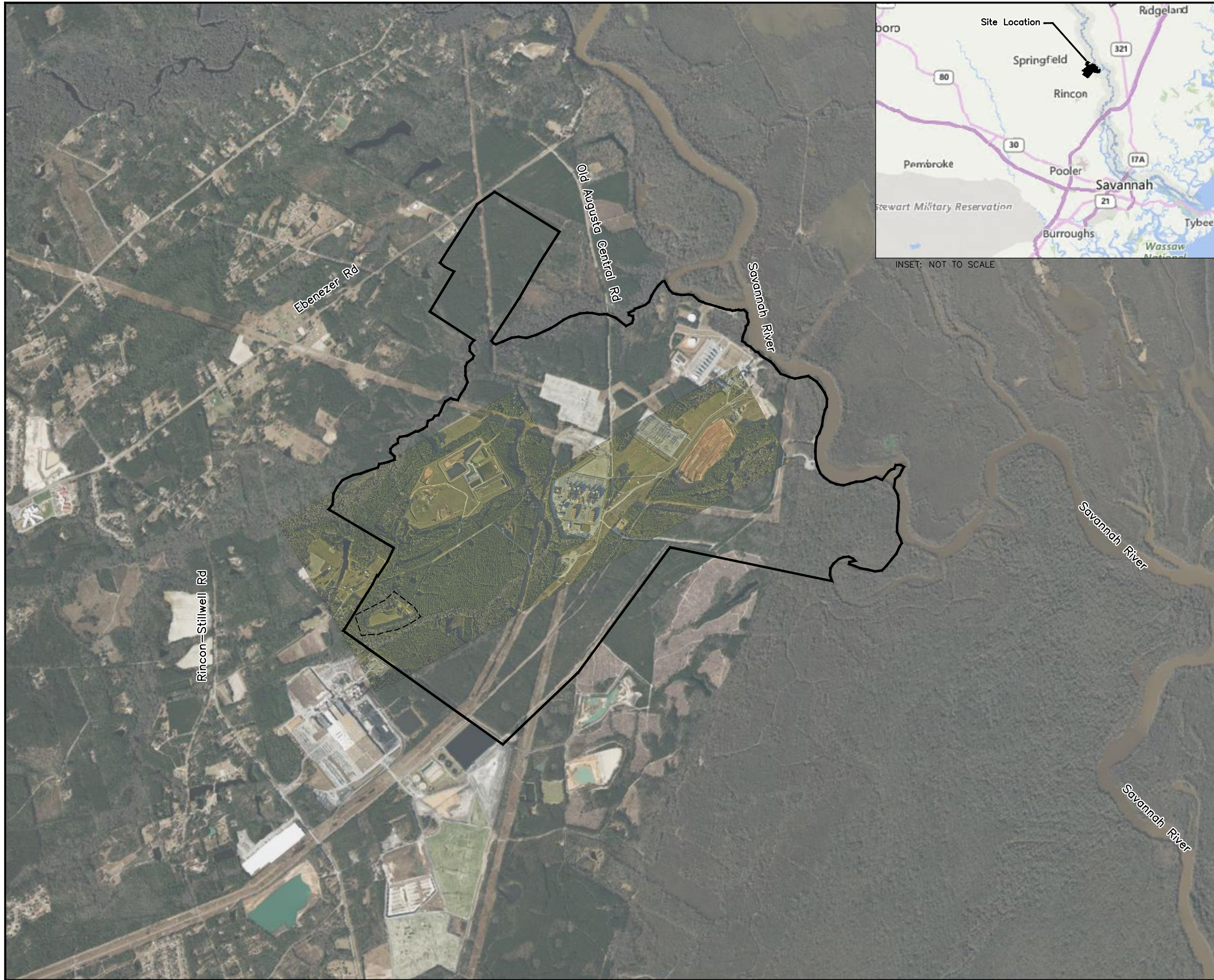
Table 1
Summary of Groundwater Analytical Data
February 2022
Plant McIntosh Inactive Landfill No. 3
Effingham County, Georgia

Substance		Well ID						
		GWC-1A	GWC-2	GWC-4A	GWC-5	GWC-5A	GWC-6	GWC-6A
		2/9/2022	2/8/2022	2/9/2022	2/9/2022	2/8/2022	2/9/2022	2/9/2022
APPENDIX III	Boron	0.13	0.094	<0.060	<0.060	<0.060	<0.060	<0.060
	Calcium	2.5	1.3	0.39 J	4.6	2.1	1.8	3.2
	Chloride	15	5.0	5.3	7.5	5.9	8.3	9.5
	Fluoride	0.069 J	<0.026	0.038 J	0.063 J	0.033 J	0.042 J	0.042 J
	pH	4.53	4.79	4.82	4.82	5.20	5.05	5.31
	Sulfate	<0.76	2.7	<0.76	<0.76	5.9	<0.76	5.4
	TDS	62	30	22	110	48	86	100
Required by Permit	Barium	0.27	0.062	0.034	0.36	0.052	0.050	0.083
	Beryllium	0.00040 J	<0.00027	<0.00027	0.0024 J	<0.00027	<0.00027	0.00032 J
	Chromium	<0.0015	0.0046	<0.0015	<0.0015	<0.0015	<0.0015	<0.0015
	Cobalt	0.0044	0.0013 J	0.00042 J	0.011	0.0020 J	0.00059 J	0.0012 J
	Copper	<0.0011	0.0019 J	<0.0011	<0.0011	<0.0011	<0.0011	<0.0011
	Lead	<0.00017	<0.00017	<0.00017	0.00033 J	0.00061 J	0.00039 J	<0.00017
	Vanadium	<0.00078	<0.00078	<0.00078	<0.00078	<0.00078	0.0012	<0.00078
	Zinc	0.023	0.0078	0.0039 J	0.030	0.011	0.0087	0.0069

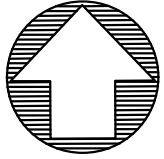

Notes:

1. Results for substances are reported in milligrams per liter (mg/L). pH results are reported in Standard Units.
2. < indicates the substance was not detected above the relevant laboratory method detection limit (MDL).
3. 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 (value J) is qualified by the laboratory as an estimated number.
4. TDS indicates total dissolved solids.
5. Appendix III = indicator parameters evaluated during Detection Monitoring.
6. Parameters required by permit are Appendix I parameters included to meet GA EPD Rule 391-3-4-.14 requirements.

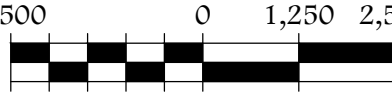
FIGURES



INSET: NOT TO SCALE






ATLANTIC COAST
CONSULTING, INC.




SCALE (IN FEET)

LEGEND:

EXISTING	DESCRIPTION
	APPROXIMATE PROPERTY BOUNDARY
	INACTIVE LANDFILL No. 3

NOTES:
1. AERIAL DATED 2/15/2022 FROM SAM, LLC.
ADDITIONAL PHOTOGRAPHY DATED 2021 FROM
MICROSOFT CORPORATION, MAXAR, CNES,
DISTRIBUTION AIRBUS DS.

PROJECT

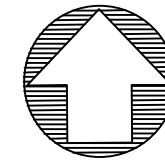
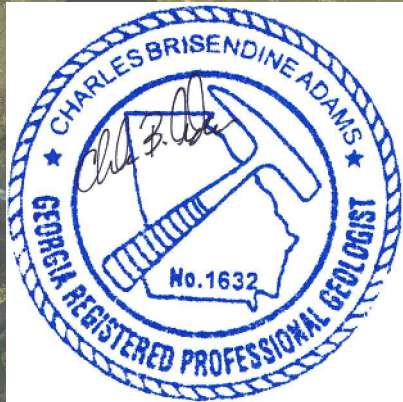

 GEORGIA POWER COMPANY
 PLANT McINTOSH
 INACTIVE LANDFILL No. 3

2022 UPDATE TO BARIUM & COBALT ALTERNATE
SOURCE DEMONSTRATIONS

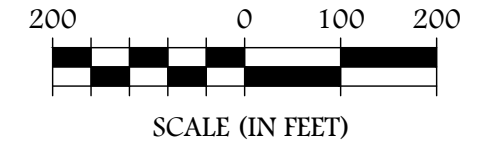
SITE LOCATION MAP

PROJECT NO. IO54-110 June 2022

<u>DRAWN BY:</u>	RW	<u>FIGURE:</u>	1
<u>CHECKED BY:</u>	MM		



ATLANTIC COAST
CONSULTING, INC.



LEGEND:

EXISTING	DESCRIPTION
	EXISTING 100-FOOT BUFFER ZONE
	WASTE MANAGEMENT BOUNDARY
	GWC-1A 46.79 MONITORING WELL GROUNDWATER ELEVATION (FT NAVD88)
	PZ-1 46.35 PIEZOMETER GROUNDWATER ELEVATION (FT NAVD88)
	GWA-1B 46.76 NON-NETWORK WELL GROUNDWATER ELEVATION (FT NAVD88)
	47 GROUNDWATER ELEVATION CONTOUR (FT NAVD88)
	GROUNDWATER FLOW DIRECTION

- NOTES:
1. DEPTHS TO WATER MEASURED FEBRUARY 7, 2022.
 2. FT NAVD88 = FEET RELATIVE TO NORTH AMERICAN VERTICAL DATUM OF 1988.
 3. GWA-1A, GWC-1, GWC-5, AND GWC-6 NOT USED TO CONSTRUCT POTENTIOMETRIC CONTOURS. WELLS SELECTED FOR CONTOURING WERE MOST CONSISTENT WITH OVERALL SITE GROUNDWATER FLOW PATTERN.
 4. PIEZOMETERS PZ-4 AND PZ-5 WERE INSTALLED IN JANUARY 2022.
 5. AERIAL DATED 2/15/2022 FROM SAM, LLC. ADDITIONAL PHOTOGRAPHY DATED 2021 FROM MICROSOFT CORPORATION, MAXAR, CNES, DISTRIBUTION AIRBUS DS.

PROJECT



GEORGIA POWER COMPANY
PLANT McINTOSH
INACTIVE LANDFILL No. 3

2022 UPDATE TO BARIUM & COBALT ALTERNATE
SOURCE DEMONSTRATIONS

**POTENTIOMETRIC CONTOUR MAP
FEBRUARY 2022**

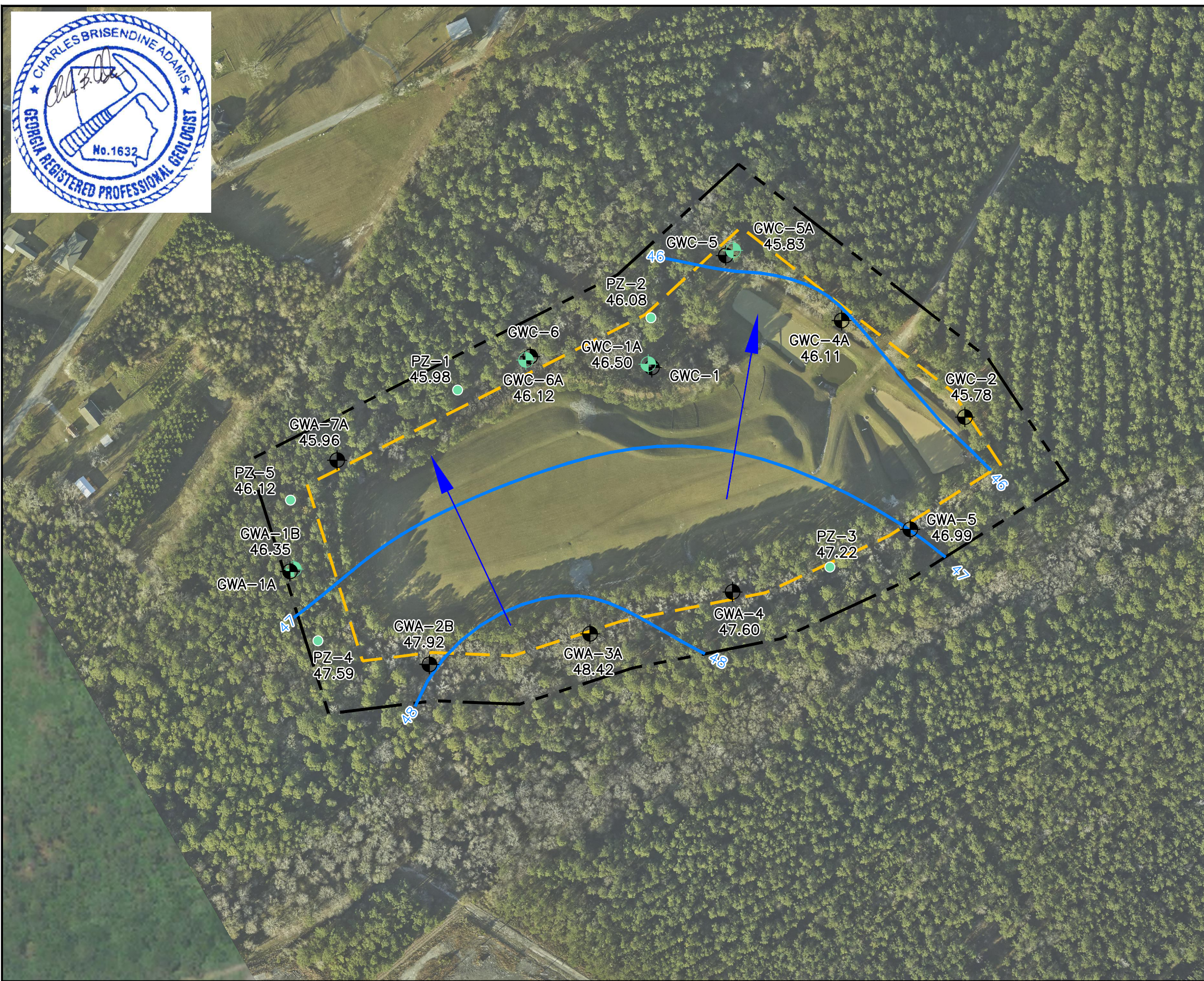
PROJECT NO. I054-110

February 2022

DRAWN BY: RW

FIGURE:

CHECKED BY: MM



ATTACHMENTS

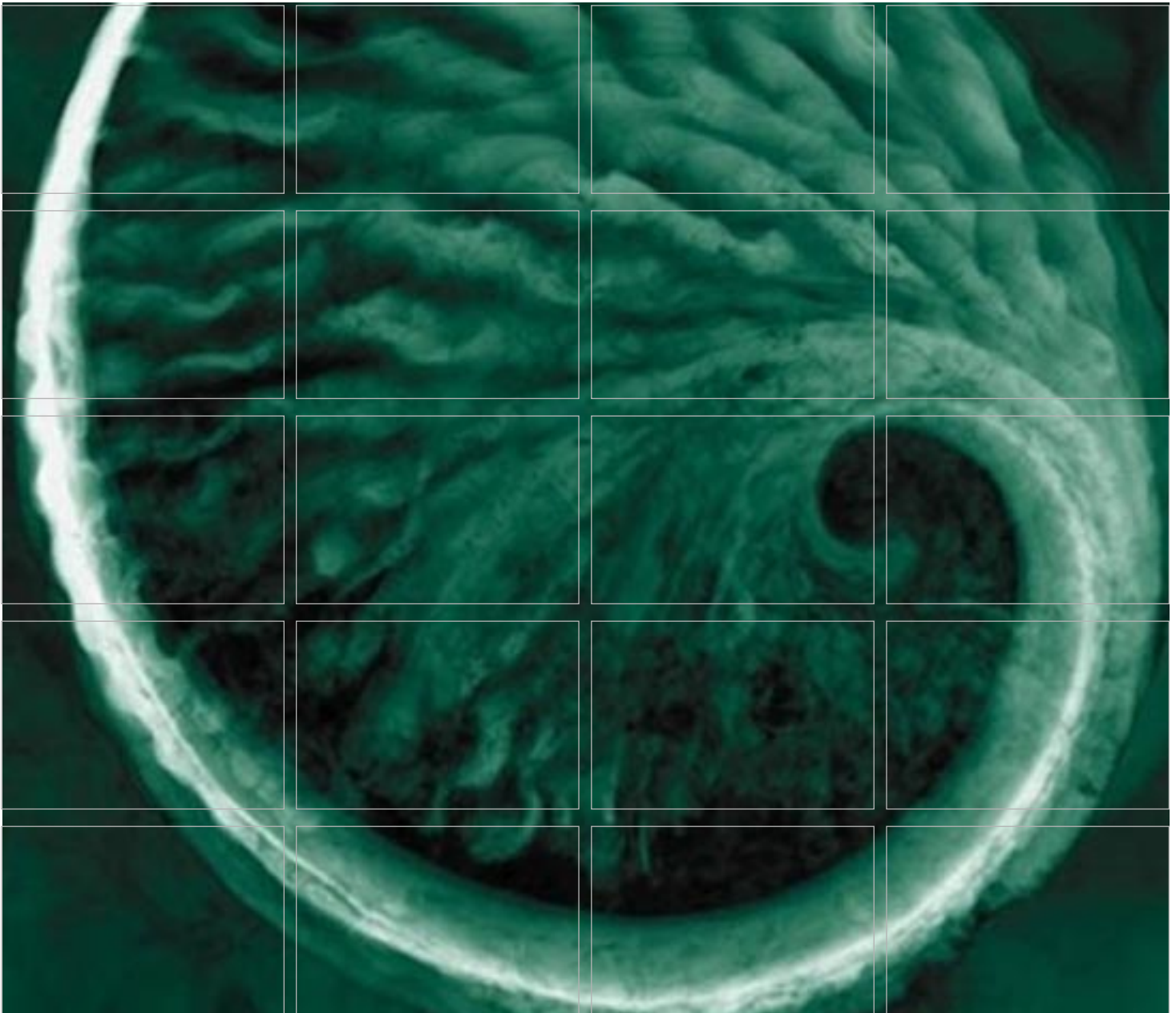
ATTACHMENT A

ALTERNATE SOURCE DEMONSTRATIONS
COPIES FROM 2017 AND 2020

Plant McIntosh Inactive Landfill No. 3
Barium & Cobalt Alternate Source Demonstration



**ERM. ALTERNATE SOURCE DEMONSTRATION
PLANT MCINTOSH ASH DISPOSAL SITE NO. 3.
AUGUST 2017**



Prepared for:

*Georgia Power
Company*

ALTERNATE SOURCE DEMONSTRATION

Plant McIntosh Ash Disposal Site □o. 3
Permit □o. 051-008D (LI)

August 2017

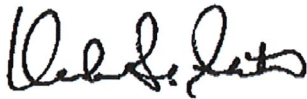
www.erm.com

Georgia Power Company

ALTERNATE SOURCE DEMONSTRATION

Plant McIntosh
Ash Disposal Site No. 3
Permit No. 051-008D (LI)

August 9, 2017



Hunter Sartain, P.E.
Principal



Greg Jirak, P.G.
Project Manager



Environmental Resources Management
The Towers at Wildwood
3200 Windy hills Rd., Suite 1500 West
Atlanta, GA 30339
Phone: +1-678-486-2700



TABLE OF CONTENTS

1.0	INTRODUCTION	1
1.1	BACKGROUND	1
1.2	HISTORICAL MONITORING	1
1.3	BASIS OF THE STATISTICALLY SIGNIFICANTLY INCREASE	1
2.0	ALTERNATE SOURCE DEMONSTRATION	2
2.1	GEOLOGY OF COASTAL PLAIN	2
2.1.1	Occurrence of Barium	2
2.2	SURFACE HYDROLOGY NEAR GWC-5	3
2.3	GEOCHEMISTRY AND ANALYTICAL DATA	3
2.4	SUPPLEMENTAL ANALYTICAL DATA	4
3.0	CONCLUSIONS AND RECOMMENDATIONS	4
4.0	REFERENCES	5

FIGURES

1. Site Location Map
2. Potentiometric Surface Map January 10, 2017
3. Barium Concentration and Groundwater Elevation at GWC-5
4. Barium Concentration and Specific Conductance at GWC-5

TABLES

1. GWC-5 Groundwater Field Parameters
2. GWC-5 CCR Parameters

APPENDICES

- A. Technical Memorandum

ACRONYMS

ASD □ Alternate Source Demonstration

CCR □ coal combustion residual

D□O □ Design □ Operation

ERM □ Environmental Resources Management

GA □ Georgia

GPC □ Georgia Power Company

MCL □ maximum contaminant level

□S/cm □ microsiemens per centimeter

mg/L □ milligrams per liter

K_d □ partitioning coefficient

SSI □ statistically significant increase

UPL □ upper prediction limit

1.0 INTRODUCTION

Statistical analysis of the analytical data from the 2017 first semi-annual groundwater sampling event at GPC's Plant McIntosh Ash Disposal Site No. 3 identified an SSI of barium in monitoring well GWC-5 (ERM, 2017).

Pursuant to the Rule 391-3-4.14(23)(c), this report provides an ASD for the SSI noted above. Based on review of site data, the SSI for barium in well GWC-5 is likely the result of variability in naturally-occurring barium and therefore not indicative of a groundwater impact by the disposal unit. This report provides details regarding the alternate source.

1.1 BACKGROUND

Plant McIntosh is located in southeast Effingham County, Georgia, approximately 4 miles northeast of the city of Rincon and 20 miles north-northeast of the city of Savannah. The plant property is on the west bank of the Savannah River at Big Kiffer Point (Site Location Map, Figure 1). Ash Disposal Site No. 3 was closed in 2008 and is currently in post-closure care.

1.2 HISTORICAL MONITORING

A Groundwater Monitoring Plan was submitted and approved in August 1999 and modified February 2010 as part of the facility DCO Plan. The monitoring well network consists of fourteen wells (seven upgradient and seven downgradient) located along the perimeter of Ash Disposal Site No. 3 (Potentiometric Surface Map January 10, 2017, Figure 2). Semi-annual groundwater monitoring began in October 1999 and is routinely performed in compliance with the permit conditions for groundwater monitoring at the site. Groundwater monitoring of CCR constituents for compliance with Georgia EPD's CCR Rule 391-3-4-.10 (GA CCR Rule) has been conducted twice since the GA CCR Rule was promulgated.

1.3 BASIS OF THE STATISTICALLY SIGNIFICANTLY INCREASE

Data from the 2017 first semi-annual groundwater monitoring event utilized the most recent measured concentration for analytes at each downgradient well and calculated a UPL using interwell methods. One exceedance of the UPL was found at one monitoring well location. The exceedance was identified as an SSI for barium in well GWC-5. No exceedances of the MCL were identified in the data.

The 2017 First Semi-Annual Groundwater Monitoring Report (ERM, 2017) describes the statistical methods utilized to evaluate data sampled for the first 2017 semi-annual event. The calculated UPL for barium using the statistical approach identified within that report is 0.33 mg/L. The barium concentration in well GWC-5 for the first 2017 sampling event was 0.42 mg/L. The MCL for barium is 2.0 mg/L.

2.0 ALTERNATE SOURCE DEMONSTRATION

GWC-5 is the only well within the network of 7 downgradient monitoring wells to have a reported SSI during the January 2017 groundwater sampling event. Barium was the only constituent. A landfill release typically results in multiple SSIs in multiple wells. Since there are no other reported SSIs and barium is naturally occurring in soil and groundwater at the site, a localized cause is likely and not a release from the unit. Based on these observations, a review of facility activities and a review of the existing field and analytical data were conducted.

The source of the SSI is the result of variability in naturally-occurring barium and the following details are provided as basis for this demonstration:

- Barium is a naturally occurring at the site and is present in all site groundwater.
- The recent expansion of wetlands near GWC-5 has affected surface hydrology corresponding to changes in groundwater geochemistry and potentiometric surface in GWC-5.
- Field parameter and analytical data demonstrate the relationship between changes to the surface hydrology and increases in barium concentrations.
- Analytical data are presented to show the presence of barium and the absence of more mobile (lower partitioning coefficient K_d) CCR-related constituents.

2.1 GEOLOGY OF COASTAL PLAIN

Ash Disposal Site No. 3 is situated in the Coastal Plain Province of Georgia. Coastal Plain sediments were deposited from Cretaceous to Pleistocene and consist of stratified marine deposits and materials eroded from crystalline rock of the Piedmont Region, typically clay, silt, sand, which overlay limestone resting on much older igneous and metamorphic basement rocks (Beatch, Stephenson, & Maughan, 1911).

2.1.1 Occurrence of Barium

Barium has been detected in all monitoring wells and all groundwater samples collected at Ash Disposal Site No. 3 since 1999. The highest concentration of barium detected at Ash Disposal Site No. 3 is 0.491 mg/L (GWC-5 Groundwater Field Parameters, Table 1). Based on information presented below, barium is naturally occurring in local geology, groundwater, and at the site.

Barium is an alkaline earth metal and occurs in nature as a free metal and as salts. Barite ($BaSO_4$) and witherite ($BaCO_3$) are the two most common barium minerals. Barium is commonly found in clays and other silicate minerals (i.e. alkali feldspar, plagioclase, pyroxene, amphibole, and micas) as a result of ion exchange (Choudhury & Cary, 2001). Silicate minerals are commonly found in weathered material from crystalline rock of the Piedmont which has

been deposited as Coastal Plain sediments at the site (Clarke & Washington, 1924). In addition to barium being naturally present in Coastal Plain sediments, barium is naturally occurring in groundwater in the Coastal Plain (Lee, 1993).

2.2 SURFACE HYDROLOGY NEAR GWC-5

Recent site activities adjacent to Ash Disposal Site No. 3 and GWC-5 in an area north and adjacent to GWC-5 have altered the surface hydrology and drainage at the site. Site personnel removed trees and brush in 2013 and 2015, and the access road was repaired north of the Ash Disposal Site No. 3 in March 2016 after washouts made it inaccessible.

A technical memorandum (memo) dated 26 May 2017 documents the findings from a site visit conducted on 15 May 2017, including a large emergent / scrub-shrub wetland within the area north of Ash Disposal Site No. 3, near GWC-5 (Appendix A). Numerous dead and/or dying pine trees, wetland vegetation, and wrack lines which are indicative of increasing wetland conditions were observed during the site visit and documented in the memo. A large woody debris pile associated with the 2013 and 2015 tree clearing was observed preventing the outflow of surface water from the area to the north. The surface drainage conditions appear to have been exacerbated by the road repairs in 2016, and likely contributed to expansion of the emergent / scrub-shrub wetland area.

Restricting surface flow within wetlands may create localized groundwater mounding due to preferential infiltration resulting in an increase in groundwater elevations. Following repair of the access road in 2016, groundwater elevations increased to historically high levels indicative of this process. Figure 3 (Barium Concentration and Groundwater Elevation at GWC-5) demonstrates a direct relationship between the site activities that caused an expansion of the wetland area and increases in groundwater elevation.

Restricted surface water within wetlands, such as the area north of GWC-5, can increase the concentration of dissolved ions in the wetlands system (Seelig, 2009). The following section relates geochemistry to the presence of wetlands at the site.

2.3 GEOCHEMISTRY AND ANALYTICAL DATA

The changes to surface hydrology creating the emerging wetland environment have altered the geochemistry in the groundwater near GWC-5. In wetlands, anaerobic conditions support reducing conditions in the surface water resulting in an increase in dissolved ions due to precipitation/dissolution of compounds previously in equilibrium. As surface water with elevated dissolved ions infiltrate into the subsurface, geochemical changes in the groundwater are observed as increases in specific conductance measurements. Historically high specific conductance measurements recorded during recent groundwater sampling events demonstrate the relationship between increased dissolved ions (such as barium) and the reducing conditions caused by an expanded wetland area (Barium Concentration and Specific Conductance at GWC-5, Figure 4).

Historical barium concentrations and field parameters have been collected at GWC-5 since 1999 (Table 1). Figure 4 shows the relationship between barium concentrations and specific conductance data. The following are observations regarding the data as illustrated in Figure 4:

- Barium concentrations in GWC-5 generally exhibit a decreasing trend from until 2013, at the time tree clearing and road construction activities began. Barium concentrations have generally increased since that time.
- Specific conductance measurements in GWC-5 have historically been observed below 500 $\mu\text{S}/\text{cm}$. However, the 3 most recent measurements have all exceeded 1,000 $\mu\text{S}/\text{cm}$ with the highest value of 9,262 $\mu\text{S}/\text{cm}$. The 3 highest specific conductance measurements directly correspond to the SSIs of barium concentrations in 2016 and 2017.
- Based on the correlations between field measurements and barium concentrations relative to the timing of recent site work and expansion of wetlands, the SSI for barium at GWC-5 is likely naturally occurring barium concentrations present in the geologic formation. Barium dissolution is naturally occurring throughout the site, but is being impacted more specifically at GWC-5 due to recent changes in geochemistry caused by changing surface hydrology local to the area around GWC-5.

2.4 SUPPLEMENTAL ANALYTICAL DATA

GPC has recently conducted additional measurements within wells at the site in preparation for future compliance with the Georgia CCR Rule 391-3-4-.10. Two sampling events have occurred for the GA CCR Rule program and results are presented in Table 2 (GWC-5 CCR Parameters). Those constituents presented in Table 2 commonly have a lower partitioning coefficient (K_d) than barium, indicating a higher potential to be present in dissolved form. A landfill release typically results in elevated concentrations of these constituents.

As presented in Table 2, boron, cadmium, copper, and lithium (common leachable ash components and not specifically related to the geologic formation at the site) were not detected above the laboratory detection in the samples collected at GWC-5. Naturally occurring constituents in groundwater such as barium, calcium, and sulfate are reported at elevated concentrations as a result of the geochemical process as discussed in Section 2.3. These results indicate the increased concentration of barium is a result of natural variability enhanced by reducing conditions caused by the expansion of wetlands near GWC-5 and not a release from the unit.

3.0 CONCLUSIONS AND RECOMMENDATIONS

Barium was the only detected SSI and was reported at one well, GWC-5, during the 2017 first semi-annual groundwater monitoring event. This single well/ single constituent SSI suggests a localized cause and not a release from the unit. The following data have been provided to demonstrate the SSI reported at GWC-5 is attributed to variability in the naturally-occurring

barium caused by changes to surface hydrology and subsequent geochemical changes in the groundwater near the well

- Changes to the surface hydrological conditions (expansion of the wetland area) coincide with changes to the groundwater elevation measured at GWC-5. The increase in barium concentrations at GWC-5 is concurrent with these observed changes as indicated in Figure 3.
- Anaerobic conditions within a wetland environment may lead to an increase in dissolved ions (such as barium). High specific conductance measured in groundwater at GWC-5 during recent sampling events is indicative of an increase in dissolved ions. The increase in barium concentration and specific conductance are concurrent with completion of activities which have resulted in the expansion of wetlands near GWC-5 (Figure 4).
- The absence of more mobile constituents (lower K_d) at GWC-5, typically indicative of a release from a landfill, indicates that the source of the barium is natural.

ERM recommends the following actions as a result of this ASD

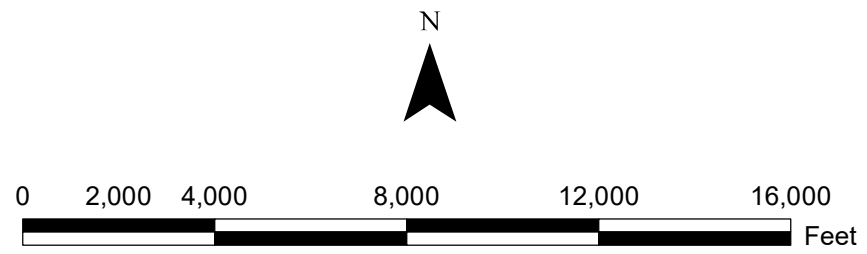
- Manage surface water to facilitate water drainage at the site
- Continue monitoring GWC-5 to verify that the conclusions of this ASD are still supported by the data.

4.0 REFERENCES

- Choudhury, H., & Cary, R. (2001). *2001. Barium and Barium Compounds, Concise International Chemical Assessment Document 33*. Geneva: USEPA, WHO, UNEP.
- Clarke, F. W., & Washington, H. S. (1924). *The composition of the Earth's crust, US Geological Survey Professional Paper No. 127*. Washington, D.C.: US Department of the Interior, US Geological Survey.
- ERM. (2017). *2017 First Semi-Annual Groundwater Monitoring Report, Plant McIntosh Ash Disposal Site No. 3*. Atlanta.
- Lee, R. (1993). *Geochemistry of Groundwater in the Southeastern Coastal Plain Aquifer System in Mississippi, Alabama, Georgia, and South Carolina Professional Paper 1410-D*. Washington: U.S. Geological Survey.
- Seelig, B. (2009). *Water quality and wetland function in the Northern Prairie Pothole Region*. Fargo: North Dakota State University.
- Beatch, O., Stephenson, L. W., & Vaughan, T. W. (1911). *Preliminary Report on the Geology of the Coastal Plain of Georgia Bulletin 26*. Atlanta Georgia: Geological Survey of Georgia.



- Legend**
- Approximate Property Boundary
 - Landfill 3



1 inch = 4,000 feet



Environmental Resources Management

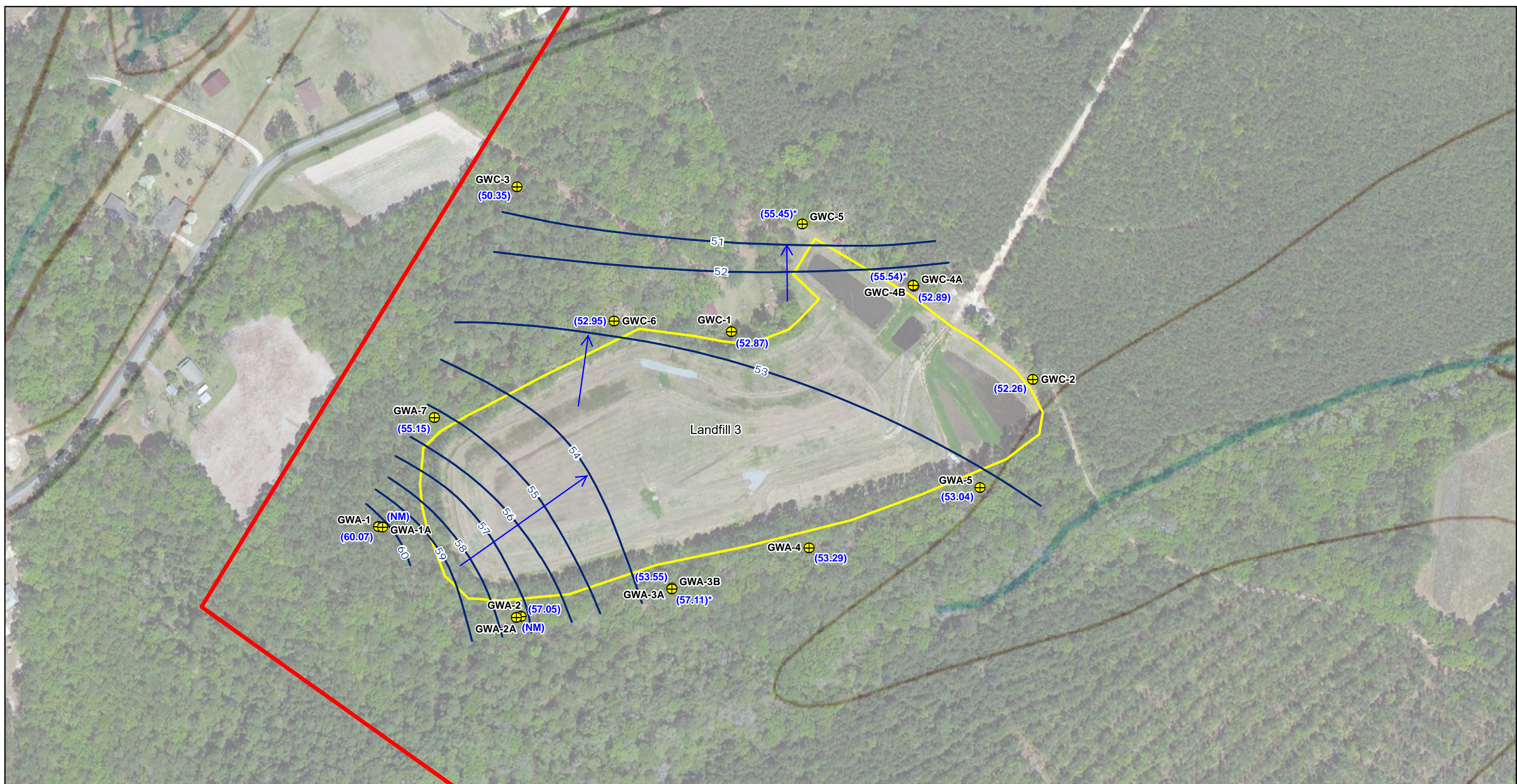
FOR

Georgia Power Company

SCALE	DRAWING NUMBER	SHEET	COIT'D	RE
As Shown	SARpt_F1_McIntoshALLUnitSiteLoc	1	As Shown	0

Copyright © 2016 Southern Company Services, Inc. All Rights Reserved. This document contains proprietary, confidential, and/or trade secret information of the subsidiaries of The Southern Company or of third parties. It is intended for use only by employees of, or authorized contractors of, the subsidiaries of the Southern Company. Unauthorized possession, use, distribution, copying, dissemination, or disclosure of any portion is prohibited.

FIGURE 1
 SITE LOCATION MAP
 PLANT MCIINTOSH ASH DISPOSAL SITE No. 3
 RICCO, GEORGIA



Legend

- Monitoring Well
- Apparent Potentiometric Surface Contour
- Approximate Property Boundary
- Landfill 3

- (53.55) □ Groundwater Elevation (01/10/17, FtMSL)
- (NM) □ Not Measured
- * □ GWC-5, GWA-3B and GWC-4B not used in contouring.



1 inch = 200 feet

Environmental Resources Management

FOR

Georgia Power Company

SCALE	DRAWING NUMBER	SHEET	COPIED	REVISION
As Shown	SARpt_F2_LF3GWElev_011017	2	As Shown	0

Copyright © 2016 Southern Company Services, Inc. All Rights Reserved. This document contains proprietary, confidential, and/or trade secret information of the subsidiaries of The Southern Company or of third parties. It is intended for use only by employees of, or authorized contractors of, the subsidiaries of the Southern Company. Unauthorized possession, use, distribution, copying, dissemination, or disclosure of any portion is prohibited.

FIGURE 2
 POTENTIOMETRIC SURFACE MAP
 JANUARY 10, 2017
 PLANT MCINTOSH ASH DISPOSAL SITE NO. 3
 RINCON, GEORGIA

Figure 3.
Barium Concentration and Groundwater Elevation at GWC-5

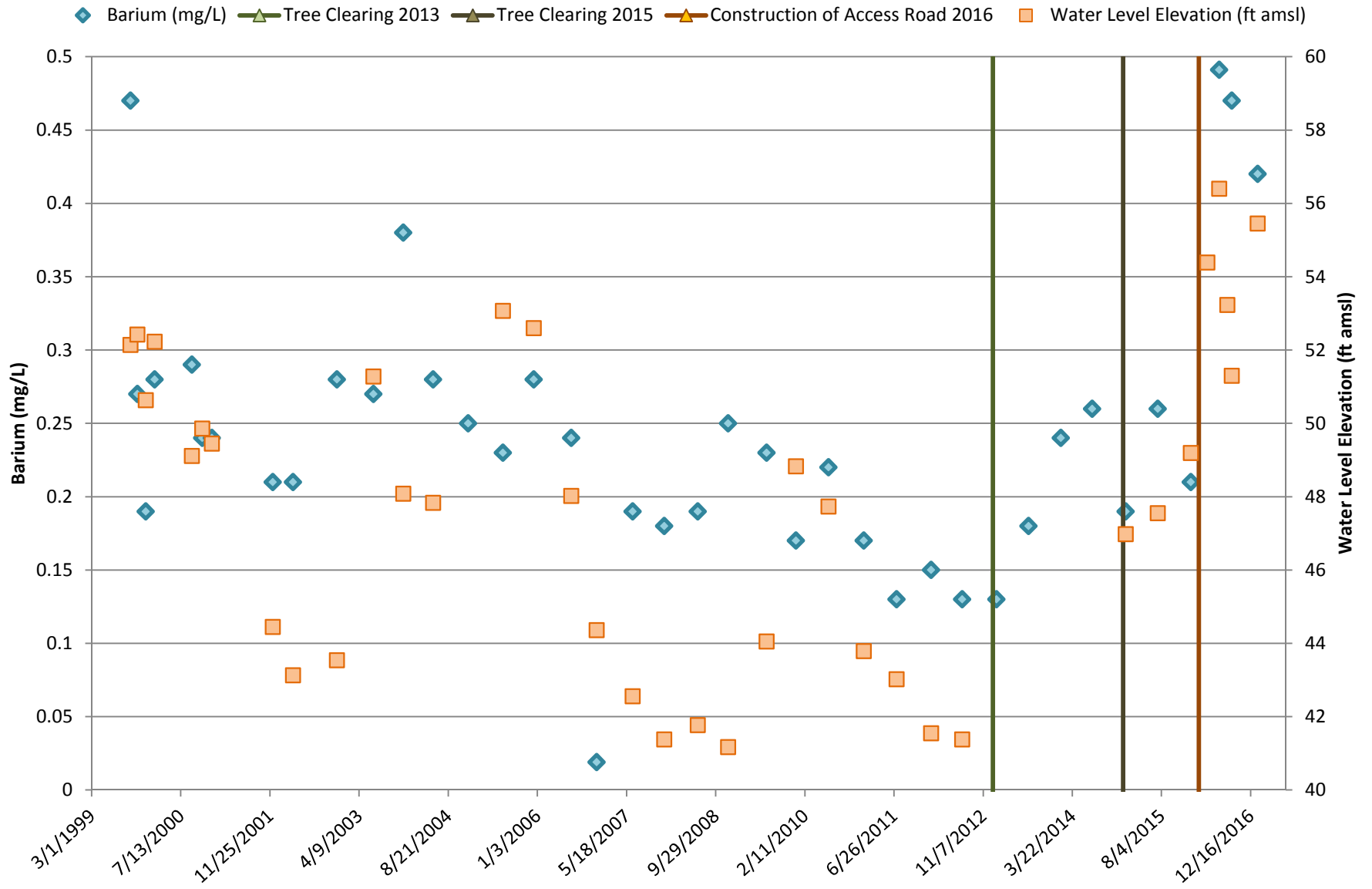


Figure 4.
Barium Concentration and Specific Conductance at GWC-5



TABLE 1. GWC-5 GROUNDWATER FIELD PARAMETERS

Date	Barium (mg/L)	Specific Conductance (μ S/cm)	pH (S.U.)	Water Level Elevation (ft amsl)
10/5/1999	0.47	730	6.13	52.14
11/12/1999	0.27	460	5.81	52.42
12/29/1999	0.19	300	5.43	50.63
2/17/2000	0.28	430	5.49	52.23
9/13/2000	0.29	210	5.05	49.11
11/10/2000	0.24	280	5.48	49.86
1/4/2001	0.24	210	4.99	49.45
12/11/2001	0.21	110	5.52	44.45
4/4/2002	0.21	120	5.50	43.13
12/6/2002	0.28	121	4.58	43.54
6/28/2003	0.27	414	4.32	51.28
12/13/2003	0.38	212	4.73	48.08
5/28/2004	0.28	226	4.50	47.83
12/10/2004	0.25	164	4.28	na
6/24/2005	0.23	2.41	4.56	53.07
12/13/2005	0.28	274	4.49	52.60
7/12/2006	0.24	245	4.80	48.02
12/1/2006	0.019	na	na	44.36
6/21/2007	0.19	na	na	42.56
12/15/2007	0.18	na	na	41.38
6/21/2008	0.19	na	na	41.77
12/7/2008	0.25	na	na	41.17
7/11/2009	0.23	na	na	44.05
12/23/2009	0.17	160	4.46	48.83
6/23/2010	0.22	288	4.79	47.73
1/8/2011	0.17	na	na	43.79
7/10/2011	0.13	52	5.01	43.02
1/20/2012	0.15	na	na	41.55
7/12/2012	0.13	84	4.49	41.38
1/21/2013	0.13	na	na	na
7/20/2013	0.18	na	na	na
1/17/2014	0.24	na	na	na
7/11/2014	0.26	229	4.83	na
1/16/2015	0.19	na	na	46.98
7/15/2015	0.26	213	4.66	47.55
1/16/2016	0.21	155	5.05	49.19
4/18/2016	na	na	na	54.39
6/23/2016	0.491	1086	6.32	56.40
8/8/2016	na	na	na	53.23
9/1/2016	0.47	9262	7.21	51.30
11/14/2017	na	na	na	55.94
1/24/2017	0.42	7670	8.32	55.45

Notes:

- groundwater sampling was conducted on 4/18/2016, 8/8/2016, 11/14/2016
- mg/L - milligrams per liter
- μ S/cm - microsiemens per centimeter
- S.U. - standard units
- ft amsl - feet above average mean sea level
- na - not available

TABLE 2. GWC-5 CCR PARAMETERS

Sample Date	40 CFR Appendix III to Part 257			40 CFR Appendix IV to Part 257			EPD SW
	Boron	Calcium	Sulfate	Barium	Cadmium	Lithium	Copper
Pre-June 2016	na	na	na	0.13 - 0.47	□ 0.005	na	□ 0.02
6/23/2016	na	na	na	0.491	na	na	0.0007 □
9/1/2016	□ 0.050	21	110	0.47	□ 0.0025	□ 0.0050	na
1/24/2017	□ 0.050	10	67	0.42	□ 0.0025	□ 0.0050	□ 0.0025

Notes:

All units milligrams per liter (mg/L)

□ □ estimated

□ 0.0025 □ □ not Detected at the associated reporting limit

na □ not analyzed

40 CFR Appendix III and Appendix I □ to Part 257 - Constituents analyzed in compliance with State of Georgia CCR Rule □391-3-4-.10

EPD SW - Constituents sampled as part of Georgia EPD Solid Waste Permit

□ Barium is also an EPD Solid Waste Permit constituent

□ Cadmium was an EPD Solid Waste Permit constituent from 1999 - 2002

Appendix A
Technical Memorandum

TECHNICAL MEMORANDUM

TO: LAUREN PETTY, P.G. – SOUTHERN CO. SERVICES
FROM: BRIAN ESTES
SUBJECT: PLANT MCINTOSH MONOFIL NO. 3
DATE: MAY 26, 2017

A site visit was conducted on 15 May 2017 for the Plant McIntosh Monofil No. 3 project to evaluate current site conditions and identify potential effects on recent ground water readings within the project area. A wetland approximation was conducted within the area immediately north of the monofil (see Figure 1). A large, emergent / scrub-shrub wetland occurs within this area and appears to be recently expanding. Numerous dead and/or dying pine trees, wetland vegetation and wrack lines were observed, indicative of increasing wetland conditions. Based on reviews of historical aerial imagery, the area was timber harvested / thinned in ~2013 (Figure 2). This area appears to have historically contained two small wetland features surrounded by planted pine plantation. However, the area appears to be expanding beyond its historical footprint. Recent timber harvest / thinning activities may have decreased evapotranspiration rates due to tree removal, which may result in increased surface hydrology. Additionally, along the northern edge of the wetland, a large debris pile consisting of tree limbs may be affecting wetland drainage (see attached Site Photographs). No confined channel drains the wetland areas, as sheet flow / infiltration appear to be the primary drainage. Although it is unknown if increasing hydrology has any effects on groundwater well readings, it is recommended that this debris pile be removed to facilitate site drainage. Any material removed should be placed within an upland area and stabilized with seed / straw. A U.S. Army Corps of Engineers permit would not be required for debris pile removal.



Approximate Wetland Boundary

0 125 250 500
Feet



Figure 2. Aerial Imagery Comparisons 2012 / 2014
Plant McIntosh Monofil □o. 3
Rincon, Effingham County, Georgia

**GEI, ALTERNATE SOURCE DEMONSTRATION
PLANT MCINTOSH INACTIVE LANDFILL NO. 3.
FEBRUARY 2020**



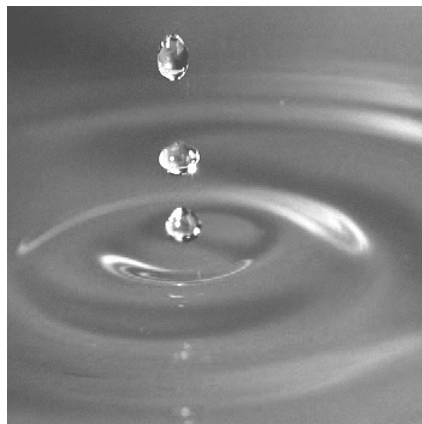
Consulting
Engineers and
Scientists

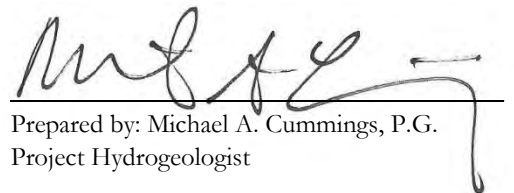
Georgia Power Company
Alternative Source Demonstration

Plant McIntosh Coal Combustion Residuals
Inactive Landfill No. 3
Permit No. 051-008D(L)(I)

Prepared by:
GEI Consultants, Inc.
1375 Peachtree Street, Suite A15
Atlanta, GA 30309

February 27, 2020
Project 1901973




Prepared by: Michael A. Cummings, P.G.
Project Hydrogeologist

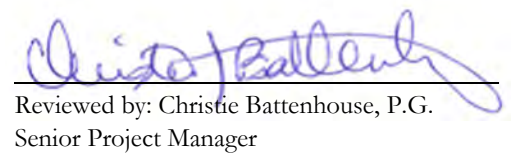

Reviewed by: Christie Battenhouse, P.G.
Senior Project Manager

Table of Contents

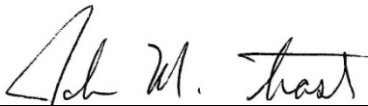
1.	Introduction	1
1.1	Site Location and Background	2
2.	Geology, Hydrogeology, and Geochemistry	3
3.	Alternative Source Demonstration	4
3.1	Chromium Evaluation	5
3.1.1	Absence of SSIs	5
3.1.2	Upgradient Monitoring Data	5
3.2	Cobalt Evaluation	6
3.2.1	Absence of Other SSIs	6
3.2.2	Localized Hydrology & Natural Occurrence of Cobalt	6
4.	Conclusion	7
5.	References	8

Figures

1. Site Location Map
2. Potentiometric Surface Contour Map - March 2019
3. Box and Whisker Plot - Chromium

PROFESSIONAL ENGINEER CERTIFICATION

“I hereby certify that this *Alternative Source Demonstration* for Georgia Power Company – Plant McIntosh Inactive Landfill No. 3 meets requirements in Georgia Administrative Code Rule 391-3-4-.14 and that the information used in this report is accurate pursuant to the requirements of Georgia Administrative Code Rule 391-3-4-.14 (30). I am a duly licensed Professional Engineer under the laws of the state of Georgia.”



John M. Trast, P.E.

License No. PE41928





1. Introduction

This document presents an alternative source demonstration (ASD) for the statistically significant increases (SSIs) of state Appendix I Design and Operation (D&O) groundwater monitoring parameters (Appendix I) chromium and cobalt detected in samples collected from monitoring wells at Georgia Power Company's (GPC's) Plant McIntosh (the Site) Inactive Coal Combustion Residuals Landfill No. 3 (Landfill No. 3). Groundwater monitoring is currently conducted at Landfill No. 3 to comply with Landfill No. 3's Solid Waste permit number 051-008D(L)(I), as issued by the Georgia Environmental Protection Division (EPD), and in accordance with EPD Solid Waste Management Rule 391-3-4.14 Groundwater Monitoring and Corrective Action. This ASD has been prepared pursuant to the EPD Rules for Solid Waste Management 391-3-4-.14 (30).

In August 2019, analytical data for State Appendix I D&O parameters were evaluated to determine an appropriate statistical method for the data set. Groundwater Stats Consulting, LLC evaluated the background D&O parameter data set and recommended that an intrawell upper prediction limit (UPL) evaluation method combined with a 1-of-2 resampling plan for all D&O constituents should be used to statistically evaluate the Site data. The statistical evaluation of the March 2019 sampling results using the revised intrawell statistical methods was completed on August 9, 2019. As included in the *2019 Semiannual Groundwater Monitoring and Corrective Action Report* (GEI, 2019) for the March 2019 groundwater monitoring event, the following SSIs were identified using intrawell evaluation methods:

- Chromium: GWC-2
- Cobalt: GWC-5

Both wells were resampled in September 2019, within 90 days of identifying the SSIs, and the SSIs were verified as a result. This ASD documents that natural variability in groundwater, and not Landfill No. 3, is the cause of the SSI for chromium at well GWC-2 and cobalt at GWC-5.

EPD approved a minor modification on August 20, 2019, changing the method for statistical analysis to an intrawell PL approach for Appendix I parameters. Analytical data from the September 2019 semiannual detection monitoring event at Landfill No. 3 were statistically analyzed in accordance with the approved facility D&O Plan (GPC, 2010) and the minor modification dated August 9, 2019. Using the EPD-approved updated statistical method, the SSI for chromium at well GWC-2 is no longer observed when compared to the 2019 second semiannual UPL presented in the *2019 Second Semiannual Groundwater Monitoring and Corrective Action Report* (GEI, 2020).

1.1 Site Location and Background

Plant McIntosh is located in southeast Effingham County, Georgia, approximately 4 miles northeast of the city of Rincon, and 20 miles north-northwest of the city of Savannah. Plant McIntosh and Landfill No. 3 are shown on Figure 1.

Landfill No. 3 received CCR from the generating process but was closed in 2008 and is now inactive. Groundwater monitoring at Landfill No. 3 is performed on a semiannual basis in accordance with the revised D&O Plan for the facility (GPC, 2010). The groundwater monitoring network and a potentiometric surface contour map for March 2019 are presented as Figure 2. Monitoring wells GWC-2 and GWC-5 are situated downgradient and located along the eastern and northeastern portions of the inactive landfill, respectively.

2. Geology, Hydrogeology, and Geochemistry

The Site is situated on sediments that were deposited from the Cretaceous to Pleistocene period and consist of stratified marine deposits and materials eroded from crystalline rock of the Piedmont Region. The lithology described in the boring logs at the Site as interbedded clays, silts, and sands typical of Coastal Plain sediments. The uppermost aquifer at the Site is the surficial aquifer, characterized by silty to sandy clays, clayey silts, silty sands, and fine to medium grained sands. Monitoring wells and piezometers were screened in the surficial aquifer between elevation 59 and 15 feet (ft) North American Vertical Datum 88 (NAVD 88). Aquifer materials are heterogeneous as isolated areas of silty clay occur within more permeable silty sand and clayey sand deposits of the uppermost aquifer.

Based on groundwater flow at the Site documented in the *2019 Semiannual Groundwater Monitoring and Corrective Action Report* (GEI, 2019), the general direction of groundwater flow is from the southwest to the northeast across Landfill No. 3 (Figure 2). The groundwater flow pattern observed during the March 2019 detection monitoring event is historically consistent. The calculated groundwater flow velocity at the Landfill No. 3 is approximately 22 feet per year.

3. Alternative Source Demonstration

Based on review of Site information, the SSIs for chromium and cobalt are not the result of a release from Landfill No. 3 and are likely the result of variability of naturally occurring chromium and cobalt. The following lines of evidence summarized below support this conclusion:

- Chromium
 - Using an EPD-approved statistical method, the statistical analysis of September 2019 semiannual monitoring data no longer reports an SSI for chromium at well GWC-2.
 - The detection of chromium in GWC-2 represented a single-parameter SSI. A release from the CCR unit will result in multiple parameter SSIs and significant concentration increases. The absence of SSIs for other Appendix I and Appendix III parameters in well GWC-2 supports the conclusion that the chromium SSI in GWC-2 is not the result of a release from Landfill No. 3.
 - Historically, the chromium concentrations in upgradient wells including wells GWA-1A, GWA-2A, and GWA-7 exhibit variability and are frequently higher when compared to chromium concentrations in GWC-2. This demonstrates that comparable chromium concentrations are observed in background groundwater monitoring wells.

- Cobalt
 - The detection of cobalt in GWC-5 represents a single-parameter SSI. A release from the CCR unit will result in multiple parameter SSIs and significant concentration increases. The absence of SSIs for other Appendix I and Appendix III parameters in well GWC-5 supports the conclusion that the cobalt SSI in well GWC-5 is not the result of a release from Landfill No. 3.
 - Changes in surface water hydrology are documented to have affected geochemistry local to GWC-5 in an ASD for barium SSIs prepared by Environmental Resource Management, Inc. (ERM), dated August 9, 2017 (ERM, 2017) and submitted to the EPD.
 - Regional studies demonstrate that cobalt is naturally occurring in local alluvial-derived sand, silt, and clay. This demonstrates that Site soils are a viable source for naturally occurring cobalt in groundwater in response to localized changes in geochemistry.

The following sections present further details regarding the evidence supporting the conclusion that the chromium and cobalt SSIs are not the result of a release from the unit and can be attributed to natural variability in groundwater quality.

3.1 Chromium Evaluation

Based on the following, the SSI for chromium was not the result of a release from Landfill No. 3 and can be attributed to the natural occurrence and variability in chromium at the Site.

3.1.1 Absence of SSIs

Evaluation of the most recent monitoring data using the EPD-approved statistical method does not identify an SSI for chromium in well GWC-2. This demonstrates that the previously reported SSI was not the result of a release from Landfill No. 3 and can be attributed to natural occurrence of chromium at the Site.

There are no other SSIs for Appendix I or III parameters identified in GWC-2 at Landfill No. 3 in March 2019 (GEI, 2019). A release from Landfill No. 3 would result in SSIs of multiple Appendix I and Appendix III parameters, especially Appendix III indicators. This has not occurred. The absence of multiple SSIs demonstrates that this single-parameter SSI is not the result of a release from the unit.

3.1.2 Upgradient Monitoring Data

As shown in the data summary on Figure 3, the maximum chromium concentration in detected in background samples at locations GWA-1A, GWA-2A, and GWA-7 is greater than the maximum concentration detected in downgradient well GWC-2. This indicates that naturally occurring chromium occurs at the Site and can account for the chromium observed in this well.

Chromium concentrations detected in Landfill No. 3 upgradient monitoring wells and GWC-2 are summarized as Box and Whiskers Plots shown on Figure 3. As shown on these plots, chromium concentrations detected in background monitoring wells between 1999 and March 2019 vary widely both spatially across the upgradient pool and throughout the 20-year monitoring period. Chromium concentrations in several upgradient wells including wells GWA-1A, GWA-2A, and GWA-7 were frequently higher during each sampling event than those in well GWC-2. Figure 3 graphically illustrates the variability in background chromium concentrations. When compared to GWC-2, upgradient wells GWA-1A, GWA-2A, and GWA-7 exhibit a wider range of concentrations across the 20-year monitoring period.

3.2 Cobalt Evaluation

Based on the following, the SSI for cobalt is not the result of a release from Landfill No. 3. The variability and presence of cobalt and can be attributed to the natural occurrence of cobalt in deposits at the Site and localized geochemistry variability.

3.2.1 *Absence of Other SSIs*

There are no other SSIs for Appendix I or III parameters identified in GWC-5 at Landfill No. 3 in March 2019 (GEI, 2019). A release from Landfill No. 3 would result in SSIs of multiple Appendix I and Appendix III parameters, especially Appendix III indicators. This has not occurred. The absence of multiple SSIs demonstrates that this single-parameter SSI is not the result of a release from the unit.

3.2.2 *Localized Hydrology & Natural Occurrence of Cobalt*

Cobalt occurrences in groundwater can be attributed to localized changes in geochemistry. This condition has been documented in an ASD for similar occurrences of barium at well GWC-5 in a report from ERM dated August 2017.

Natural Site materials are a viable source for cobalt observed at Landfill No. 3. GEI completed a literature review to assess the potential variability of the trace element cobalt and in natural Coastal Plain sediments deposited at the Site. Several references ([Cocker,1998], [Cook, 1978], and [Windom, 1989]) indicate that the weathering of mafic minerals (e.g. pyroxene, hornblende, biotite mica, and others) derived from metamorphic regimes containing alkali, alkaline earth, and transition metals in the Piedmont Region (pegmatite province) frequently produce part per million (ppm)-level concentrations of trace metals including cobalt in the sediments of the Coastal Plain especially where sediment was transported and deposited away from the Piedmont Region. The Hart-Elbert County Mica Mining Area of Georgia and South Carolina is transected by the Savannah River upstream from Plant McIntosh (Griffits and Olson, 1953) and contains many minerals comprising cobalt including micaceous minerals. Historic Savannah River flow transported these sediments in a southeast direction toward Effingham County and deposited these alluvial sediments in Coastal Plain deposits below the Site. Micaceous minerals were observed in soils on-Site during inspection of soil cores obtained during well installations screened in the surficial aquifer at the Site. U. S. Geological Survey data identified background cobalt concentrations ranging as high as 7.2 ppm in Coastal Plain soil samples collected from the soil C-horizon (deeper than 1 meter) near the Site (U.S. Geological Survey Report prepared by Smith et al., 2014). Micaceous and mafic minerals present in the surficial aquifer at the Site are contributors to the natural variability of cobalt concentrations detected in the groundwater samples collected from the Site. Based on the information provided here, the cobalt SSI is clearly not the result of a release from Landfill No. 3. The SSI of cobalt is attributed to naturally occurring cobalt and localized geochemistry variation in the vicinity of the well.

4. Conclusion

Based on information presented in the ASD, the SSIs for chromium in well GWC-2 and cobalt in well GWC-5 are not the result of a release from the unit. The likely cause of the SSIs is the natural occurrence and variability of chromium and cobalt in groundwater.

This ASD demonstrates that the observed SSIs are not the result of a release from Landfill No. 3. Therefore, pursuant to Georgia Administrative Code Rule 391-3-4-.14 (30)(e), Landfill No. 3 will remain in detection monitoring.

5. References

Cocker, Mark D., 1998. *Distribution of Selected Elements in Stream Sediments, Stream Hydrogeochemistry, and Geology of the Flint River Basin, Georgia*, Georgia Department of Natural Resources- Environmental Protection Division Bulletin Number 129, 1998.

Cook, Robert B., 1978. *Minerals of Georgia*. State of Georgia Department of Natural Resources- Geologic and Water Resources Division Bulletin 92, 1978.

ERM, 2017. *Alternative Source Demonstration*, prepared by ERM, August 9, 2017.

GEI, 2019. *2019 Semiannual Groundwater Monitoring and Corrective Action Report*, prepared by GEI Consultants, Inc. August 2019.

GEI, 2020. *2019 Second Semiannual Groundwater Monitoring and Corrective Action Report*, prepared by GEI Consultants, Inc. February 2020.

GPC, 2010. *Plant McIntosh Ash Disposal Site No. 3 Revised Design-Operation Plan Groundwater Monitoring Plan*, prepared by GPC. 1999, Revised February 15, 2010.

GPC, 2019. *Requests for Minor Modification to Solid Waste Handling Permits, Multiple Georgia Power Private Industry Solid Waste Disposal Facilities, Incorporation of Alternate Statistical Methods into Groundwater Monitoring Plans*, prepared by GPC. August 9, 2019.

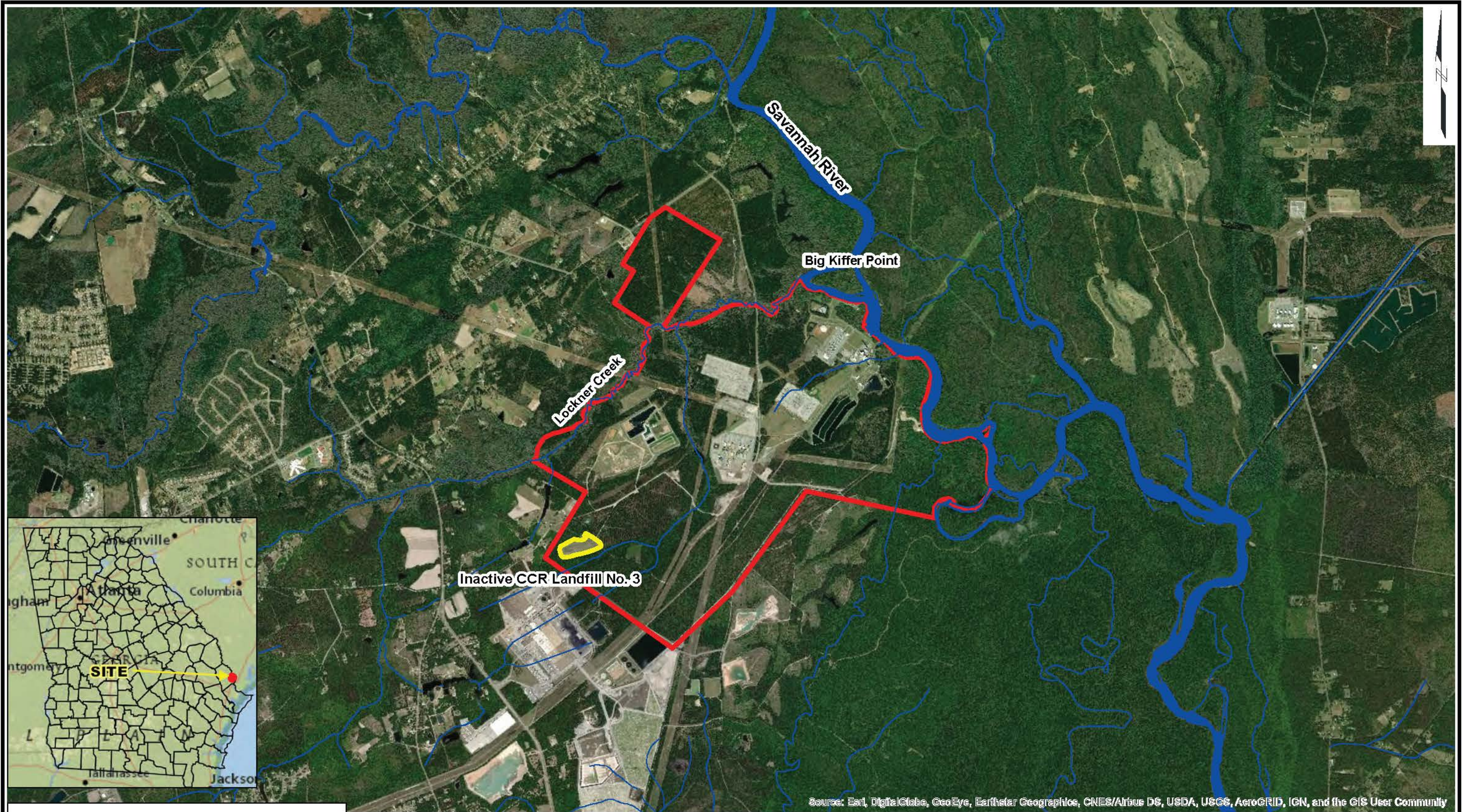
Griffits, Wallace, and Olson, Jerry, 1953. *Mica Deposits of the Southeastern Piedmont; Part 7. Hartwell District, Georgia and South Carolina*. USGS Professional Paper 248-E. 1953.

Sanitas: Groundwater Statistical Software, Sanitas Technologies, Shawnee, KS, 2007.
www.sanitastech.com.

Smith, David B., et al., 2014. *Geochemical and Mineralogical Maps for Soils of the Conterminous United States*, United States Geological Survey Open File Report 2014-1082, 2014.




Windom, Herbert L., et al., 1989. *Natural Trace Metal Concentrations in Estuarine and Coastal Marine Sediments of the Southeastern United States*, American Chemical Society- Journal of Environmental Science and Technology Vol. 23, No. 3, prepared by Windom, Herbert L., et al., 1989.

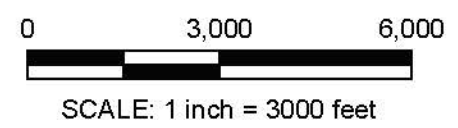
Figures



Source: Esri, DigitalGlobe, GeoEye, Earthstar Geographics, CNES/Airbus DS, USDA, USGS, AeroGRID, IGN, and the GIS User Community

LEGEND

-  Plant McIntosh Approximate Property Boundary
-  Inactive CCR Landfill No. 3
-  Savannah River and Associated Tributaries



Alternative Source Demonstration
 Plant McIntosh Inactive CCR Landfill No. 3
 Effingham County, Georgia

Georgia Power Company
 Atlanta, Georgia









Project No. 1901973

SITE LOCATION MAP

Prepared November 2019 Fig. 1

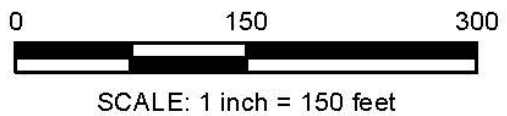
LEGEND


-  Downgradient Monitoring Well
 -  Piezometer
 -  Upgradient Monitoring Well
 -  Proposed For Abandonment
 -  Apparent Potentiometric Surface Contour
 -  Apparent Groundwater Flow Direction
- (50.45) = Groundwater Elevation measured 03/25/19

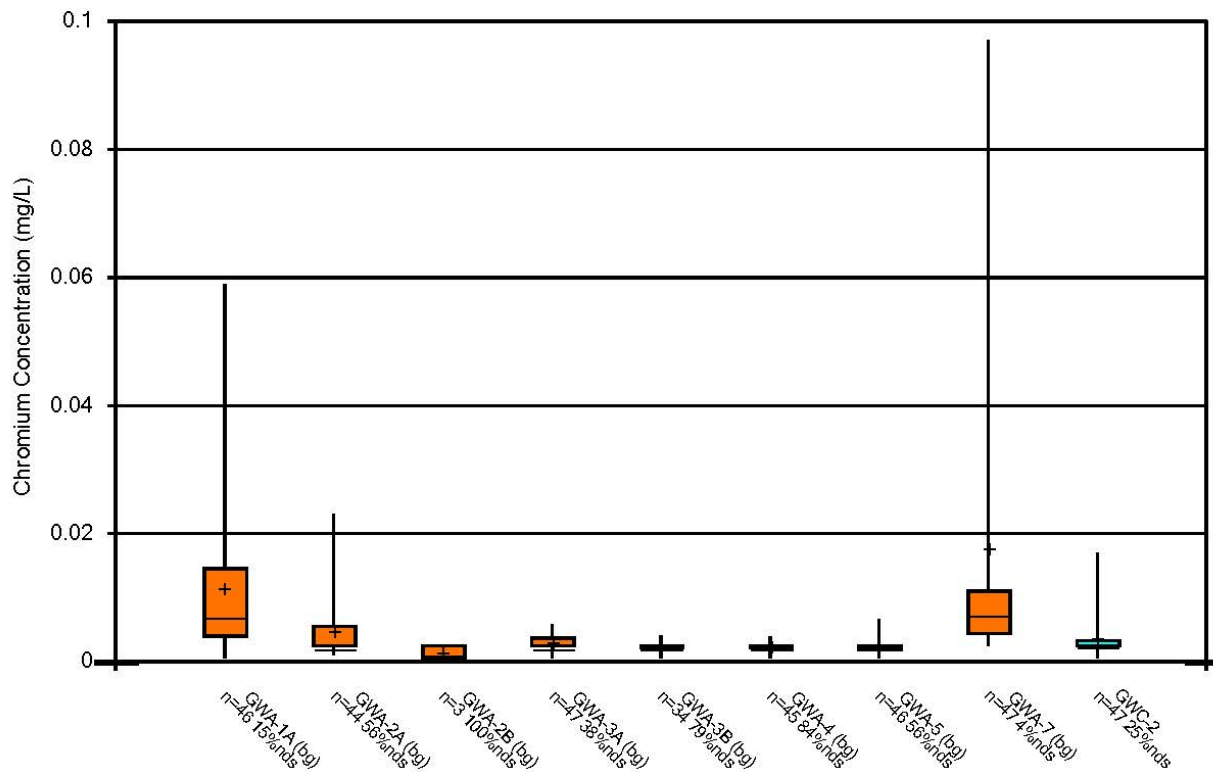


Source: Esri, DigitalGlobe, GeoEye, Earthstar Geographics, CNES/Airbus DS, USDA, USGS, AeroGRID, IGN, and the GIS User Community

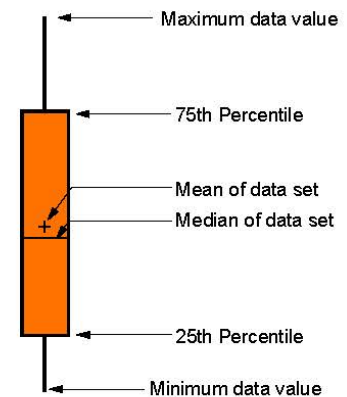
NOTES
 GWC-5 was not used in contouring.
 GWA-1, GWA-2, GWA-2A, GWA-3B, GWA-7, GWC-3, and GWC-4B are proposed for abandonment.
 Elevations are in feet relative to North American Vertical Datum (NAVD) 88



Alternative Source Demonstration Plant McIntosh Inactive CCR Landfill No. 3 Effingham County, Georgia	 GEI Consultants	POTENTIOMETRIC SURFACE CONTOUR MAP MARCH 2019
Georgia Power Company Atlanta, Georgia	Project No. 1901973	November 2019 Fig. 2



LEGEND



- Upgradient Well
- Downgradient Well

Chromium Data Summary

Well	N	Mean	Std. Dev.	Std. Err.	Median	Min.	Max.	%NDs
Background (upgradient) Wells								
GWA-1A (bg)	46	0.01151	0.01212	0.001787	0.0074	0.00063	0.059	15.22
GWA-2A (bg)	44	0.004934	0.004834	0.0007288	0.0025	0.0011	0.023	56.82
GWA-2B (bg)	3	0.00141	0.0009728	0.0005616	0.0011	0.00063	0.0025	100
GWA-3A (bg)	47	0.00287	0.00107	0.0001561	0.0025	0.00063	0.0059	38.3
GWA-3B (bg)	34	0.002401	0.0005197	0.0000...	0.0025	0.00063	0.0041	79.41
GWA-4 (bg)	45	0.002452	0.0005144	0.0000...	0.0025	0.0005	0.0039	84.44
GWA-5 (bg)	46	0.002418	0.0009739	0.0001436	0.0025	0.00063	0.0067	56.52
GWA-7 (bg)	47	0.0176	0.02472	0.003605	0.0077	0.0025	0.097	4.255
Downgradient Well GWC-2								
GWC-2	47	0.003479	0.002937	0.0004284	0.0026	0.00063	0.017	25.53

Alternative Source Demonstration Plant McIntosh Inactive CCR Landfill No. 3 Effingham County, Georgia		BOX AND WHISKER PLOT- CHROMIUM
Georgia Power Company Atlanta, Georgia	Project 1901973	November 2019
		Fig. 3



**ATLANTIC COAST
CONSULTING, INC.**

Roswell, GA
1150 Northmeadow
Pkwy, Suite 100
Roswell, GA 30076
Phone: 770.594.5998

Savannah, GA
7414 Hodgson Memorial
Drive, Suite 2B
Savannah, GA 31406
Phone: 912.236.3471

Knoxville, TN
8848 Cedar Springs
Lane, Suite 202
Knoxville, TN 37923
Phone: 865.531.9143