



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

**2021 SEMIANNUAL GROUNDWATER MONITORING AND
CORRECTIVE ACTION REPORT**



PROFESSIONAL CERTIFICATION

This *2021 Semiannual Groundwater Monitoring and Corrective Action Report*, Georgia Power Company – Plant McIntosh Inactive Landfill No. 3 has been prepared in compliance with the United States Environmental Protection Agency Coal Combustion Residuals Rule [40 Code of Federal Regulations (CFR) 257 Subpart D] and the Georgia Environmental Protection Division Rules for Solid Waste Management 391-3-4-.10 and 391-3-4-.14 by a qualified groundwater scientist or engineer with Atlantic Coast Consulting, Inc. (ACC).

ATLANTIC COAST CONSULTING, INC.



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SUMMARY

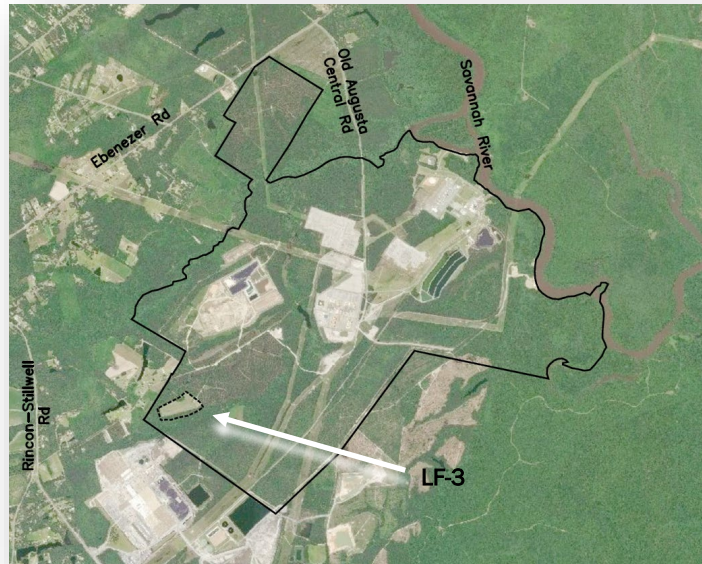
This summary of the 2021 Semiannual Groundwater Monitoring and Corrective Action Report provides the groundwater monitoring and corrective action program status from July through December 2021 for Georgia Power Company (Georgia Power) Plant McIntosh Inactive Landfill No. 3 (Site). This summary was prepared 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 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. 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 federal and state monitoring requirements of Solid Waste Permit (051-008D(LI)). Routine sampling and reporting began after background groundwater conditions were established in accordance with the Solid Waste Permit requirements specified in the Design and Operation (D&O) Plan. The monitoring program has been modified to include Appendix III parameters to meet the requirements of the Georgia Environmental Protection Division (EPD) Rules for Solid Waste Management 391-3-4-.10(6)(a) and 40 Code of Federal Regulations (CFR) § 257.95. Background groundwater conditions for Appendix III and IV parameters were established between September 2016 and October 2018. During the 2021 semiannual reporting period, the Site remained in detection monitoring.

During the 2021 semiannual reporting period, ACC conducted a groundwater sampling event in August 2021. Groundwater samples were submitted to Eurofins TestAmerica, Inc. (Eurofins) for analysis. Per the Coal Combustion Residuals (CCR) Rule, groundwater results for August 2021 data were evaluated in accordance with the certified statistical methods. That evaluation showed that 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 through December 2021, the Site will continue in detection monitoring. Georgia Power will continue routine groundwater monitoring and reporting at the Site. Reports will be posted to the website and provided to Georgia EPD semiannually.



Plant McIntosh and Inactive Landfill No. 3

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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 *2021 Semiannual Groundwater Monitoring and Corrective Action Report* to document groundwater monitoring activities conducted for the reporting period of July through December 2021 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 40 CFR § 257.90 through § 257.95 of the Federal CCR rule, and EPD Rules for Solid Waste Management 391-3-4-.10(6)(a).

Groundwater monitoring is currently performed in accordance with the Solid Waste Permit (051-008D(LI)) requirements specified in the Design and Operation (D&O) Plan (Georgia Power, 2010). A Georgia EPD-approved 2017 permit minor modification added parameters included in Appendix III and IV of 40 CFR § 257 Subpart D to the groundwater monitoring plan. 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 is currently under review.

This report provides the results of the sampling events conducted in August 2021 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 40 CFR § 257 Appendix III constituents.

This document serves as the *2021 Semiannual 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 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 (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 to the east.

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. Figure 2, Well Location Map, shows the monitoring well locations. Wells were located to serve as upgradient and downgradient

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

2.0 GROUNDWATER MONITORING ACTIVITIES

Pursuant to 40 CFR § 257.90(e), the following describes monitoring-related activities performed from July 2021 through December 2021 (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 from each well in the certified monitoring system shown on Figure 2 in August 2021. 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 EPD-approved location of network and non-network wells and piezometers are shown 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 A, 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 2021, monitoring wells were inspected, necessary corrective actions were identified and subsequently completed, as documented in Appendix A.

This documentation will serve as the required five year well inspection and was performed under the direction of a professional geologist or engineer registered in the State of Georgia.

2.2 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. A semiannual sampling event was conducted in August 2021.

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 and the approved D&O Plan. The state-modified analyte list includes barium, beryllium, chromium, cobalt, copper, lead, vanadium, and zinc.

A copy of the analytical data package for the semiannual detection monitoring event is included in Appendix A.

2.3 Additional Sampling

Due to anomalous high results for zinc at GWC-1 and GWC-6 these wells were resampled in October. Results are presented in Attachment A.

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 network wells at the Site. Groundwater elevations recorded during the monitoring events are summarized in Table 3, Summary of Groundwater Elevations – August 2021. Groundwater elevation data were used to develop Figure 3, Potentiometric Contour Map – August 2021. Wells selected for contouring were ones most consistent with overall Site groundwater flow pattern. As shown on the potentiometric surface maps, a potentiometric high exists in the western portion of the Site and groundwater flows generally eastward. The groundwater flow patterns observed during the monitoring events are consistent with historical patterns.

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 velocity has been calculated and is tabulated in Table 4, Horizontal Groundwater Flow Velocity Calculations – August 2021. The calculated flow velocity was approximately 0.043 feet per day during the August 2021 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 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 as a guide.

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 LaMotte 2020we 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 TestAmerica Inc. (Eurofins) of Pittsburgh, Pennsylvania following chain-of-custody protocol. Stabilization logs for each well and field calibration logs for each monitoring event are included in Appendix A.

3.3 Laboratory Analyses

Groundwater samples were collected during the monitoring event completed in August 2021. Analytical methods used for groundwater monitoring parameters are provided in laboratory reports in Appendix A. Samples were analyzed for Appendix III parameters and Appendix I parameters required by the current state permit during the monitoring events performed in August 2021. Analytical data collected in the monitoring event is summarized in Table 5, Summary of Groundwater Analytical Data – August 2021.

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 A.

3.4 Quality Assurance and Quality Control

During each sampling event, quality assurance/quality control (QA/QC) samples are collected at a rate of one 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 A.

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 spikes/matrix spike duplicate recoveries and relative percent differences, post digestion spikes, laboratory and field duplicate relative percent differences (RPD), 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 A.

Values followed by a "J" flag in Table 5 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 2021 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 B, Statistical Analysis Report. 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.

Recent studies of waste placement with respect to when groundwater monitoring began supports interwell methods for all constituents as the primary statistical method as requested by Georgia EPD. Therefore, statistical tests used to evaluate the August 2021 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-1A, 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 2021 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 B, statistical exceedances identified during the reporting period were either not confirmed during verification sampling or have been addressed previously by Alternate Source Demonstrations (ASDs) as outlined in Section 5.0.

4.2.1 Summary of Results for August 2021 State Appendix I Parameters

Analytical data from the August 2021 monitoring event 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 B.

Statistical analysis of the August 2021 Appendix I parameter data identified PL exceedances of barium and cobalt at GWC-5. These exceedances were previously addressed by ASDs completed in August 2017 and February 2020 (ERM, 2017, GEI, 2020) in accordance with the Georgia EPD Rules for Solid Waste Management Chapter 391-3-4-.14(23)(c).

The SSIs are consistent with the conditions outlined by the ASDs completed in 2017 and 2020. The conditions are still present; therefore, the previous ASDs remain relevant.

Additionally, the statistical analysis identified unverified PL exceedances for zinc at GWC-1 and GWC-6. However, the results reported during the October verification event did not constitute statistical exceedances. Therefore, during the August 2021 event, there are no statistical exceedances that have not been previously addressed by ASDs.

4.2.2 Summary of Results for August 2021 Appendix III Parameters

Analytical data from the August 2021 monitoring event 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 B.

Statistical analysis of the August 2021 Appendix III parameter data identified no PL exceedances.

5.0 ALTERNATE SOURCE DEMONSTRATIONS

ASDs were previously submitted to EPD under separate report covers to address SSIs of Appendix I and Appendix III constituents. Based on EPD guidance, ASDs no longer require concurrence if an SSI has not been detected for two consecutive events, which indicates natural variability. SSIs confirmed during this reporting period are addressed by previous ASDs listed below.

Reference	SSI(s)	Well(s)	Status
ERM, 2017. Alternate Source Demonstration – Plant McIntosh Ash Disposal Site No. 3, August 2017.	Barium	GWC-5	Pending EPD concurrence
GEI, 2020. Alternate Source Demonstration – Plant McIntosh Inactive Landfill No. 3, February 2020	Cobalt	GWC-5	Pending EPD concurrence

The ASDs conclude that the SSIs were not the result of a release of constituents from the Site.

6.0 MONITORING PROGRAM STATUS

Based on current data, the only SSIs identified have been previously addressed by ASDs; therefore, the Site will remain in detection monitoring.

7.0 CONCLUSIONS AND FUTURE ACTIONS

This *2021 Semiannual 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 required by the existing Georgia EPD permit that have not been previously addressed by ASDs. The Site remains in detection monitoring.

The next semiannual detection monitoring event is planned for February 2022.

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*.
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- MacStat Consulting, Ltd., 2017. *Statistical Analysis Plan – Plant McIntosh Landfill No. 3*.
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- 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 Waste Management Division Office of Solid Waste, 1989, US EPA 530/SW89-031 Interim Final RCRA Investigation (RFI) Guidance, Volume II or 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, 2013, Groundwater Sampling – Operating Procedure: SESDPROC-3-1-R3, Athens, Georgia, 31 p.

US EPA, 2015, Field Equipment Cleaning and Decontamination – Operating Procedure: LSASDPROC-205-R4, Athens, Georgia, 15 p.

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.

TABLES

Table 1A
Monitoring Network 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	1/5/2017	852023.48	954556.79	66.76	37.53	29.23	27.53	39.23	Upgradient
GWA-2B	8/29/2018	851831.06	954866.86	66.20	51.78	14.42	41.48	24.72	Upgradient
GWA-3A	5/16/1998	851893.61	955179.89	62.77	33.88	28.89	22.74	40.03	Upgradient
GWA-4	5/7/1998	851980.91	955475.74	62.01	29.16	32.85	23.71	38.30	Upgradient
GWA-5	5/7/1998	852110.59	955844.69	60.43	33.00	27.43	22.58	37.85	Upgradient
GWA-7A	8/29/2018	852254.28	954654.74	67.92	46.94	20.98	36.64	31.28	Upgradient
GWC-1	1/22/1996	852446.79	955308.31	66.08	35.95	30.13	26.15	39.93	Downgradient
GWC-2	1/23/1996	852343.90	955958.27	64.19	36.79	27.40	26.99	37.20	Downgradient
GWC-4A	5/16/1998	852544.35	955702.05	66.60	36.96	29.64	24.73	41.87	Downgradient
GWC-5	5/5/1998	852679.23	955461.61	68.08	31.00	37.08	21.15	46.93	Downgradient
GWC-6	5/6/1998	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.

Table 1B
Non-Network 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	12/4/2020	852028.09	954564.84	67.36	58.53	8.83	47.96	19.40	Upgradient
GWC-1A	12/8/2020	852453.58	955300.47	66.76	47.37	19.39	36.83	29.93	Downgradient
GWC-5A	12/9/2020	852689.80	955477.18	67.84	42.60	25.24	32.45	35.39	Downgradient
GWC-6A	12/7/2020	852462.38	955046.58	68.37	42.43	25.94	32.08	36.29	Downgradient
PZ-1	8/29/2018	852400.01	954904.93	67.41	52.71	14.70	42.41	25.00	Piezometer
PZ-2	8/28/2018	852549.77	955306.02	67.26	42.27	24.99	31.97	35.29	Piezometer
PZ-3	8/30/2018	852032.57	955677.60	61.28	41.59	19.69	31.29	29.99	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.

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

Well	Hydraulic Location	August 17-18, 2021	October 25, 2021
Purpose of Sampling Event		Semiannual Detection	Verification
GWA-1A	Upgradient	X	--
GWA-1B	Upgradient	X	--
GWA-2B	Upgradient	X	--
GWA-3A	Upgradient	X	--
GWA-4	Upgradient	X	--
GWA-5	Upgradient	X	--
GWA-7A	Upgradient	X	--
GWC-1	Downgradient	X	X
GWC-1A	Downgradient	X	--
GWC-2	Downgradient	X	--
GWC-4A	Downgradient	X	--
GWC-5	Downgradient	X	--
GWC-5A	Downgradient	X	--
GWC-6	Downgradient	X	X
GWC-6A	Downgradient	X	--

Notes:

1. X indicates sample was collected.
2. Semiannual Detection Event includes Appendix III and Appendix I Parameters.
3. -- = Not sampled.

Table 3
Summary of Groundwater Elevations
August 2021
Plant McIntosh Inactive Landfill No. 3
Effingham County, Georgia

Well ID	Top-of-Casing Elevation (NAVD88)	Groundwater Elevation (NAVD88)
GWA-1A	66.76	53.66
GWA-1B	67.36	46.76
GWA-2B	66.20	48.17
GWA-3A	62.77	48.39
GWA-4	62.01	47.65
GWA-5	60.43	46.90
GWA-7A	67.92	46.34
GWC-1	66.08	46.89
GWC-1A	66.76	46.79
GWC-2	64.19	45.82
GWC-4A	66.60	46.35
GWC-5	68.08	47.82
GWC-5A	67.84	46.17
GWC-6	68.51	47.66
GWC-6A	68.37	46.45
PZ-1	67.41	46.35
PZ-2	67.26	46.38
PZ-3	61.28	47.24

Notes:

1. NAVD88 indicates feet relative to North American Vertical Datum of 1988.
2. Groundwater elevations measured August 16, 2021.

Table 4
Horizontal Groundwater Flow Velocity Calculations
August 2021
Plant McIntosh Inactive Landfill No. 3
Effingham County, Georgia

Equation

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

$K = \text{hydraulic conductivity}$
 $dh/dl = \text{hydraulic gradient}$
 $P_e = \text{effective porosity}$

Values Used in Calculation

Value	Source
K = 7.9E-04 cm/sec 2.24 ft/day	See note 1.
dh/dl ₁ = 0.0042 unitless dh/dl ₂ = 0.0035 unitless	Hydraulic gradient from GWA-5 to GWC-2 GWA-3A to PZ-1
dh/dl _{avg} = 0.0039 unitless	Average of dh/dl _{1,2}
P _e = 0.20 unitless	See note 2.

Calculated Flow Velocity

$$v = \frac{(2.24)(0.0039)}{0.20}$$

$$v = 0.043 \text{ ft/day, or } 16 \text{ ft/year}$$

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 5
Summary of Groundwater Analytical Data
August 2021
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
		8/17/2021	8/17/2021	8/17/2021	8/17/2021	8/17/2021	8/17/2021	8/17/2021	8/18/2021
APPENDIX III	Boron	0.049 J	0.11	0.68	0.098	0.045 J	0.067 J	1.4	0.070 J
	Calcium	1.8	3.9	15	3.5	1.4	2.9	17	0.36 J
	Chloride	9.1	10	7.7	23	6.1	11	8.3	9.9
	Fluoride	0.038 J	0.090 J	0.083 J	0.064 J	0.061 J	0.097 J	0.033 J	0.046 J
	pH	5.24	5.83	5.82	4.76	4.78	4.62	5.51	4.94
	Sulfate	<0.76	5.2	54	<0.76	5.0	11	84	<0.76
	TDS	36	43	130	83	33	50	160	32
Required by Permit	Barium	0.025	0.022	0.047	0.095	0.056	0.094	0.054	0.029
	Beryllium	<0.00018	<0.00018	0.00068 J	0.00049 J	<0.00018	0.00018 J	0.00047 J	<0.00018
	Chromium	0.0046	<0.0015	<0.0015	<0.0015	<0.0015	<0.0015	<0.0015	<0.0015
	Cobalt	0.00032 J	0.00025 J	0.00016 J	0.0020 J	0.00096 J	0.00085 J	0.0026	0.00031 J
	Copper	<0.00063	<0.00063	0.0043	<0.00063	<0.00063	<0.00063	0.0025	<0.00063
	Lead	<0.00013	<0.00013	0.00073 J	0.00015 J	<0.00013	0.00044 J	<0.00013	0.00015 J
	Vanadium	<0.00099	<0.00099	<0.00099	<0.00099	<0.00099	0.0018	<0.00099	<0.00099
	Zinc	0.048	0.024	0.026	0.014	0.029	0.024	0.052	0.11

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.
7. -- indicates parameter not analyzed during verification sampling.
8. Verification sampling performed for zinc results in GWC-1 and GWC-6.

Table 5
Summary of Groundwater Analytical Data
August 2021
Plant McIntosh Inactive Landfill No. 3
Effingham County, Georgia

Substance		Well ID							
		GWC-1	GWC-1A	GWC-2	GWC-4A	GWC-5	GWC-5A	GWC-6	GWC-6
		10/25/2021	8/18/2021	8/18/2021	8/18/2021	8/18/2021	8/18/2021	8/18/2021	10/25/2021
APPENDIX III	Boron	--	0.25	0.095	0.043 J	<0.039	<0.039	0.082	--
	Calcium	--	2.9	1.7	0.37 J	7.4	2.7	1.6	--
	Chloride	--	16	5.7	7.3	8.2	7.8	7.4	--
	Fluoride	--	0.072 J	<0.026	<0.026	<0.026	<0.026	0.040 J	--
	pH	4.82	4.59	4.98	4.76	4.90	5.17	5.03	4.89
	Sulfate	--	0.84 J	1.2	<0.76	<0.76	10	1.2	--
	TDS	--	66	37	29	160	41	36	--
Required by Permit	Barium	--	0.28	0.062	0.032	0.49	0.052	0.047	--
	Beryllium	--	0.00041 J	0.00020 J	<0.00018	0.0021 J	<0.00018	0.00018 J	--
	Chromium	--	<0.0015	0.0064	<0.0015	<0.0015	<0.0015	<0.0015	--
	Cobalt	--	0.0053	0.0011 J	0.00034 J	0.013	0.0021 J	0.00050 J	--
	Copper	--	0.00085 J	<0.00063	<0.00063	<0.00063	<0.00063	<0.00063	--
	Lead	--	<0.00013	<0.00013	<0.00013	0.00032 J	0.00021 J	<0.00013	--
	Vanadium	--	<0.00099	<0.00099	<0.00099	<0.00099	<0.00099	0.0013	--
	Zinc	0.014	0.15	0.0081	0.012	0.035	0.021	0.12	0.013

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.
7. -- indicates parameter not analyzed during verification sampling.
8. Verification sampling performed for zinc results in GWC-1 and GWC-6.

Table 5
Summary of Groundwater Analytical Data
August 2021
Plant McIntosh Inactive Landfill No. 3
Effingham County, Georgia

Substance		Well ID
		GWC-6A
		8/18/2021
APPENDIX III	Boron	0.077 J
	Calcium	3.8
	Chloride	12
	Fluoride	0.039 J
	pH	5.26
	Sulfate	8.3
	TDS	61
Required by Permit	Barium	0.090
	Beryllium	<0.00018
	Chromium	<0.0015
	Cobalt	0.0016 J
	Copper	<0.00063
	Lead	<0.00013
	Vanadium	<0.00099
	Zinc	0.072

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.
7. -- indicates parameter not analyzed during verification sampling.
8. Verification sampling performed for zinc results in GWC-1 and GWC-6.

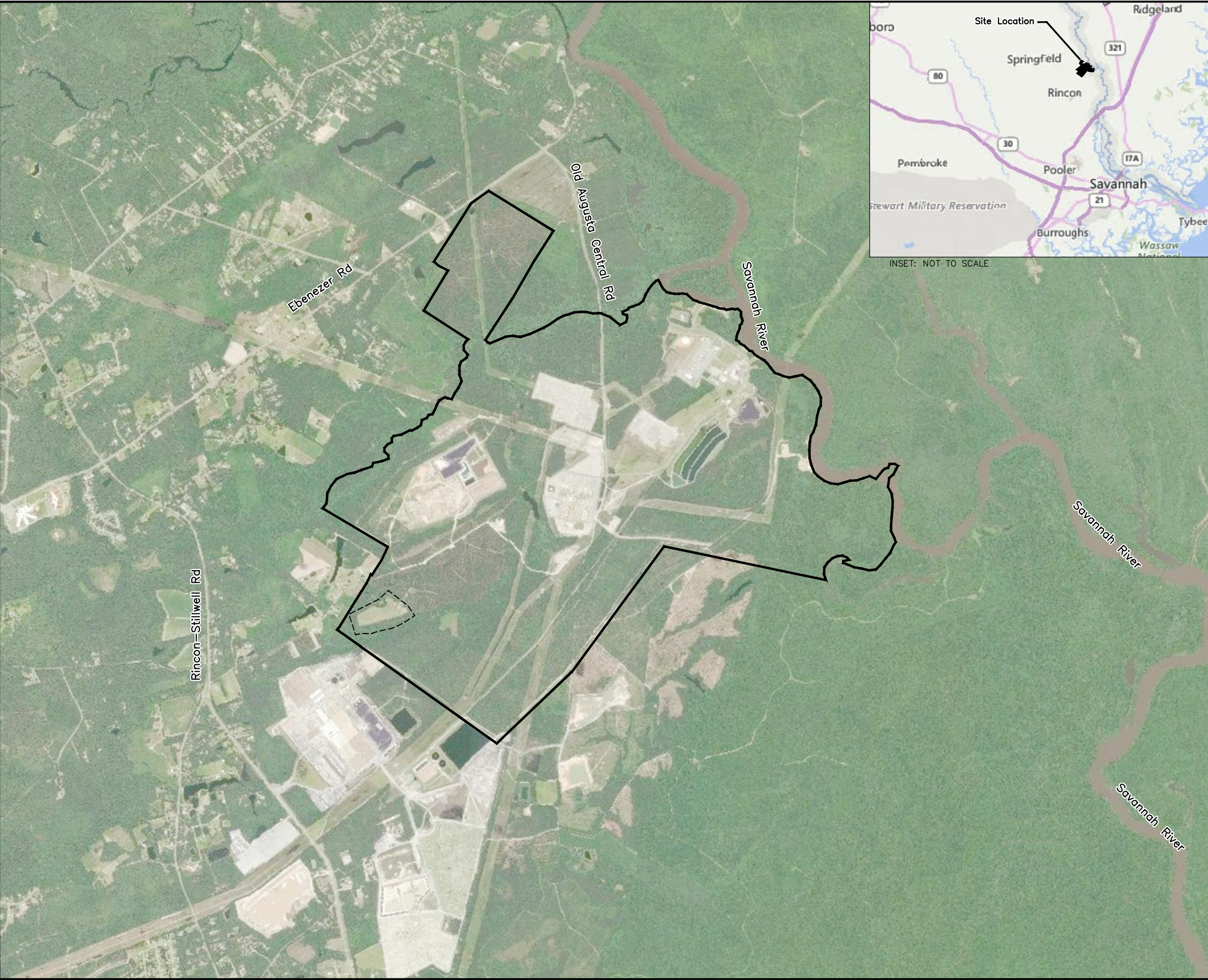
Table 6
Statistical Method Summary
Plant McIntosh Inactive Landfill No. 3
Effingham County, Georgia

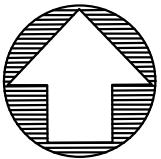
Plant McIntosh Inactive Landfill No. 3 Statistical Method Summary		
Monitoring Well Network	Upgradient Wells	GWA-1A, GWA-1B, GWA-2B, GWA-3A, GWA-4, GWA-5, GWA-7A
	Downgradient Wells	GWC-1, GWC-2, GWC-4A, GWC-5, GWC-6
CCR Monitoring Parameters	Appendix III (Detection Monitoring)	Boron, Calcium, Chloride, 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:

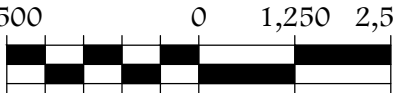
1. The selected statistical method for Plant McIntosh Inactive Landfill No. 3 was developed and updated to analyze the March 2021 groundwater data in accordance with EPD Rule 391-3-4-.10(6) using methodology presented in *Statistical Analysis of Groundwater Data at RCRA Facilities*, Unified Guidance,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

FIGURES





ATLANTIC COAST
CONSULTING, INC.



SCALE (IN FEET)

LEGEND:	
EXISTING	DESCRIPTION
	APPROXIMATE PROPERTY BOUNDARY
	INACTIVE LANDFILL No. 3

NOTES:

1. AERIAL PHOTOGRAPHY DATED 2021 FROM MICROSOFT CORPORATION, MAXAR, CNES, DISTRIBUTION AIRBUS DS.

PROJECT



GEORGIA POWER COMPANY
PLANT McINTOSH
INACTIVE LANDFILL No. 3

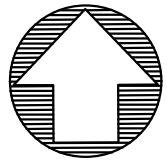
2021 SEMIANNUAL GROUNDWATER MONITORING
AND CORRECTIVE ACTION REPORT

SITE LOCATION MAP

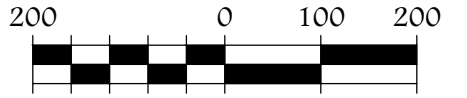
PROJECT NO. I054-110

February 2022

<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-1	MONITORING WELL
PZ-1	PIEZOMETER
GWA-1B	NON-NETWORK WELL

NOTES:

1. AERIAL DATED 7/28/2021 FROM SAM, LLC.

PROJECT



GEORGIA POWER COMPANY
PLANT McINTOSH
INACTIVE LANDFILL No. 3

2021 SEMIANNUAL GROUNDWATER MONITORING
AND CORRECTIVE ACTION REPORT

WELL LOCATION MAP

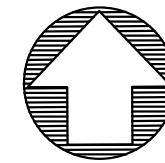
PROJECT NO. I054-110

February 2022

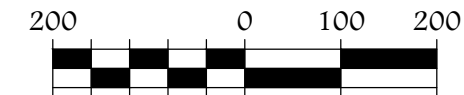
DRAWN BY: MM

FIGURE:

CHECKED BY: CA



ATLANTIC COAST
CONSULTING, INC.



SCALE (IN FEET)

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 AUGUST 16, 2021.
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. AERIAL DATED 7/28/2021 FROM SAM, LLC.

PROJECT



GEORGIA POWER COMPANY
PLANT McINTOSH
INACTIVE LANDFILL No. 3

2021 SEMIANNUAL GROUNDWATER MONITORING
AND CORRECTIVE ACTION REPORT

POTENTIOMETRIC CONTOUR MAP AUGUST 2021

PROJECT NO. I054-110

February 2022

DRAWN BY: RW

FIGURE:

CHECKED BY: MM

APPENDICES

APPENDIX A

LABORATORY ANALYTICAL AND FIELD SAMPLING REPORTS



1150 Northmeadow Parkway
Suite 100
Roswell GA 30076
(770) 594-5998
www.atlcc.net

MEMORANDUM

Date: August 26, 2021

To: Lauren Coker (Southern Company)

CC: Kristen Jurinko (Southern Company), Ben Hodges (Georgia Power)

From: Atlantic Coast Consulting, Inc.

Subject: Plant McIntosh Inactive Landfill No. 3 - Well Maintenance and Repair Documentation
Georgia Power Company

Atlantic Coast Consulting, Inc. (ACC) has prepared this memorandum to provide documentation of groundwater monitoring well maintenance and/or repair performed at Plant McIntosh during the 2021 Semiannual Groundwater Monitoring reporting period. All repairs and maintenance were completed in accordance with the Georgia Environmental Protection Division (GAEPD) guidance on routine visual inspections of groundwater monitoring wells.

Georgia Power Site/Unit	Date Performed	Well ID	Maintenance/ Repair Performed
Plant McIntosh /LF3	8/26/2021	GWA-1B	Well label installed
Plant McIntosh /LF3	8/26/2021	GWC-2	Well label reinstalled.
Plant McIntosh /LF3	8/26/2021	GWC-1A	Well label installed.
Plant McIntosh /LF3	8/26/2021	GWC-5A	Well label installed
Plant McIntosh /LF3	8/26/2021	GWC-6A	Well label installed

ANALYTICAL REPORT

Eurofins TestAmerica, Pittsburgh
301 Alpha Drive
RIDC Park
Pittsburgh, PA 15238
Tel: (412)963-7058

Laboratory Job ID: 180-125962-1

Client Project/Site: Plant McIntosh Ash Landfill #3

For:

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

Attn: Kristen N Jurinko



Authorized for release by:
9/3/2021 4:49:23 PM

Shali Brown, Project Manager II
(615)301-5031
Shali.Brown@Eurofinset.com

LINKS

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results through

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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.

PA Lab ID: 02-00416

Table of Contents

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Case Narrative

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

Job ID: 180-125962-1

Job ID: 180-125962-1

Laboratory: Eurofins TestAmerica, Pittsburgh

Narrative

Job Narrative 180-125962-1

Comments

No additional comments.

Receipt

The samples were received on 8/19/2021 9:15 AM. Unless otherwise noted below, the samples arrived in good condition, and where required, properly preserved and on ice. The temperatures of the 3 coolers at receipt time were 2.1° C, 2.5° C and 4.4° C.

Receipt Exceptions

The container label for the following sample did not match the information listed on the Chain-of-Custody (COC): EB-1 (180-125962-3). The container labels list sample id of EB-2, while the COC lists EB-1. The id on the COC was used.

The following samples were listed on the Chain of Custody (COC); however, no samples were received: GWA-5 (180-125962-11), GWA-4 (180-125962-12), GWA-3A (180-125962-13), GWA-2B (180-125962-14), GWC-2 (180-125962-15), GWC-4A (180-125962-16), GWC-5 (180-125962-17), GWC-5A (180-125962-18), FB-1 (180-125962-19), EB-2 (180-125962-20) and DUP-2 (180-125962-21). The samples were received on 8/20/21

GC Semi VOA

Method 300.0: The matrix spike / matrix spike duplicate (MS/MSD) recoveries for analytical batch 180-369715 were outside control limits. Sample matrix interference and/or non-homogeneity are suspected because the associated laboratory control sample (LCS) recovery was within acceptance limits.

Method 300.0: The matrix spike(MS) recoveries for analytical batch 180-369870 were outside control limits. Sample matrix interference and/or non-homogeneity are suspected because the associated laboratory control sample (LCS) recovery was within acceptance limits.

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

Metals

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

Field Service / Mobile Lab

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.

Definitions/Glossary

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

Job ID: 180-125962-1

Qualifiers

HPLC/IC

Qualifier	Qualifier Description
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.
□	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

Accreditation/Certification Summary

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

Job ID: 180-125962-1

Laboratory: Eurofins TestAmerica, Pittsburgh

All accreditations/certifications held by this laboratory are listed. Not all accreditations/certifications are applicable to this report.

Authority	Program	Identification Number	Expiration Date
Arkansas DEQ	State	19-033-0	06-27-21 *
California	State	2891	04-30-22
Connecticut	State	PH-0688	09-30-22
Florida	NELAP	E871008	06-30-22
Georgia	State	PA 02-00416	04-30-22
Illinois	NELAP	004375	06-30-22
Kansas	NELAP	E-10350	01-31-22
Kentucky (UST)	State	162013	04-30-22
Kentucky (WW)	State	KY98043	12-31-21
Louisiana	NELAP	04041	06-30-22
Maine	State	PA00164	03-06-22
Minnesota	NELAP	042-999-482	12-31-21
Nevada	State	PA00164	08-31-22
New Hampshire	NELAP	2030	04-05-22
New Jersey	NELAP	PA005	06-30-22
New York	NELAP	11182	04-01-22
North Carolina (WW/SW)	State	434	12-31-21
North Dakota	State	R-227	04-30-22
Oregon	NELAP	PA-2151	02-06-22
Pennsylvania	NELAP	02-00416	04-30-22
Rhode Island	State	LAO00362	12-31-21
South Carolina	State	89014	04-30-22
Texas	NELAP	T104704528	03-31-22
USDA	Federal	P-Soil-01	06-26-22
USDA	US Federal Programs	P330-16-00211	06-26-22
Utah	NELAP	PA001462019-8	05-31-22
Virginia	NELAP	10043	09-14-21
West Virginia DEP	State	142	01-31-22
Wisconsin	State	998027800	08-31-22

* Accreditation/Certification renewal pending - accreditation/certification considered valid.

Eurofins TestAmerica, Pittsburgh

Sample Summary

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

Job ID: 180-125962-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
180-125962-1	GWA-7A	Water	08/17/21 10:05	08/19/21 09:15
180-125962-2	GWA-1B	Water	08/17/21 11:35	08/19/21 09:15
180-125962-3	EB-1	Water	08/17/21 13:55	08/19/21 09:15
180-125962-4	GWA-1A	Water	08/17/21 14:00	08/19/21 09:15
180-125962-5	GWC-6A	Water	08/18/21 09:45	08/19/21 09:15
180-125962-6	GWC-6	Water	08/18/21 10:45	08/19/21 09:15
180-125962-7	FB-2	Water	08/18/21 14:00	08/19/21 09:15
180-125962-8	GWC-1	Water	08/18/21 14:15	08/19/21 09:15
180-125962-9	GWC-1A	Water	08/18/21 11:50	08/19/21 09:15
180-125962-10	DUP-1	Water	08/18/21 00:00	08/19/21 09:15
180-125962-11	GWA-5	Water	08/17/21 10:03	08/20/21 09:30
180-125962-12	GWA-4	Water	08/17/21 11:34	08/20/21 09:30
180-125962-13	GWA-3A	Water	08/17/21 12:55	08/20/21 09:30
180-125962-14	GWA-2B	Water	08/17/21 14:26	08/20/21 09:30
180-125962-15	GWC-2	Water	08/18/21 09:53	08/20/21 09:30
180-125962-16	GWC-4A	Water	08/18/21 11:05	08/20/21 09:30
180-125962-17	GWC-5	Water	08/18/21 12:09	08/20/21 09:30
180-125962-18	GWC-5A	Water	08/18/21 13:52	08/20/21 09:30
180-125962-19	FB-1	Water	08/17/21 11:00	08/20/21 09:30
180-125962-20	EB-2	Water	08/18/21 11:50	08/20/21 09:30
180-125962-21	DUP-2	Water	08/18/21 00:00	08/20/21 09:30

Method Summary

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

Job ID: 180-125962-1

Method	Method Description	Protocol	Laboratory
EPA 300.0 R2.1	Anions, Ion Chromatography	EPA	TAL PIT
EPA 6020B	Metals (ICP/MS)	SW846	TAL PIT
SM 2540C	Solids, Total Dissolved (TDS)	SM	TAL PIT
Field Sampling	Field Sampling	EPA	TAL PIT
3005A	Preparation, Total Recoverable or Dissolved Metals	SW846	TAL PIT

Protocol References:

EPA = US Environmental Protection Agency

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:

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

Lab Chronicle

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

Job ID: 180-125962-1

Client Sample ID: GWA-7A

Date Collected: 08/17/21 10:05

Date Received: 08/19/21 09:15

Lab Sample ID: 180-125962-1

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	EPA 300.0 R2.1		1			369715	09/01/21 06:44	J1T	TAL PIT
		Instrument ID: INTEGRION								
Total Recoverable	Prep	3005A			50 mL	50 mL	368990	08/24/21 10:44	TLP	TAL PIT
Total Recoverable	Analysis	EPA 6020B		1			369225	08/25/21 13:36	RSK	TAL PIT
		Instrument ID: A								
Total/NA	Analysis	SM 2540C		1	100 mL	100 mL	368905	08/23/21 14:27	KMM	TAL PIT
		Instrument ID: NOEQUIP								
Total/NA	Analysis	Field Sampling		1			369539	08/17/21 10:05	FDS	TAL PIT
		Instrument ID: NOEQUIP								

Client Sample ID: GWA-1B

Date Collected: 08/17/21 11:35

Date Received: 08/19/21 09:15

Lab Sample ID: 180-125962-2

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	EPA 300.0 R2.1		1			369715	09/01/21 07:38	J1T	TAL PIT
		Instrument ID: INTEGRION								
Total Recoverable	Prep	3005A			50 mL	50 mL	368990	08/24/21 10:44	TLP	TAL PIT
Total Recoverable	Analysis	EPA 6020B		1			369225	08/25/21 13:58	RSK	TAL PIT
		Instrument ID: A								
Total/NA	Analysis	SM 2540C		1	100 mL	100 mL	368810	08/22/21 17:25	KMM	TAL PIT
		Instrument ID: NOEQUIP								
Total/NA	Analysis	Field Sampling		1			369539	08/17/21 11:35	FDS	TAL PIT
		Instrument ID: NOEQUIP								

Client Sample ID: EB-1

Date Collected: 08/17/21 13:55

Date Received: 08/19/21 09:15

Lab Sample ID: 180-125962-3

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	EPA 300.0 R2.1		1			369715	09/01/21 07:56	J1T	TAL PIT
		Instrument ID: INTEGRION								
Total Recoverable	Prep	3005A			50 mL	50 mL	368990	08/24/21 10:44	TLP	TAL PIT
Total Recoverable	Analysis	EPA 6020B		1			369225	08/25/21 14:02	RSK	TAL PIT
		Instrument ID: A								
Total/NA	Analysis	SM 2540C		1	100 mL	100 mL	368810	08/22/21 17:25	KMM	TAL PIT
		Instrument ID: NOEQUIP								

Client Sample ID: GWA-1A

Date Collected: 08/17/21 14:00

Date Received: 08/19/21 09:15

Lab Sample ID: 180-125962-4

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	EPA 300.0 R2.1		1			369715	09/01/21 08:13	J1T	TAL PIT
		Instrument ID: INTEGRION								

Eurofins TestAmerica, Pittsburgh

Lab Chronicle

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

Job ID: 180-125962-1

Client Sample ID: GWA-1A

Date Collected: 08/17/21 14:00

Date Received: 08/19/21 09:15

Lab Sample ID: 180-125962-4

Matrix: Water

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	50 mL	368990	08/24/21 10:44	TLP	TAL PIT
Total Recoverable	Analysis	EPA 6020B		1			369225	08/25/21 14:05	RSK	TAL PIT
		Instrument ID: A								
Total/NA	Analysis	SM 2540C		1	100 mL	100 mL	368810	08/22/21 17:25	KMM	TAL PIT
		Instrument ID: NOEQUIP								
Total/NA	Analysis	Field Sampling		1			369539	08/17/21 14:00	FDS	TAL PIT
		Instrument ID: NOEQUIP								

Client Sample ID: GWC-6A

Date Collected: 08/18/21 09:45

Date Received: 08/19/21 09:15

Lab Sample ID: 180-125962-5

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	EPA 300.0 R2.1		1			369715	09/01/21 08:31	J1T	TAL PIT
		Instrument ID: INTEGRION								
Total Recoverable	Prep	3005A			50 mL	50 mL	368990	08/24/21 10:44	TLP	TAL PIT
Total Recoverable	Analysis	EPA 6020B		1			369225	08/25/21 14:09	RSK	TAL PIT
		Instrument ID: A								
Total/NA	Analysis	SM 2540C		1	100 mL	100 mL	368908	08/23/21 14:46	KMM	TAL PIT
		Instrument ID: NOEQUIP								
Total/NA	Analysis	Field Sampling		1			369543	08/18/21 09:45	FDS	TAL PIT
		Instrument ID: NOEQUIP								

Client Sample ID: GWC-6

Date Collected: 08/18/21 10:45

Date Received: 08/19/21 09:15

Lab Sample ID: 180-125962-6

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	EPA 300.0 R2.1		1			369715	09/01/21 08:49	J1T	TAL PIT
		Instrument ID: INTEGRION								
Total Recoverable	Prep	3005A			50 mL	50 mL	368994	08/24/21 10:49	TLP	TAL PIT
Total Recoverable	Analysis	EPA 6020B		1			369225	08/25/21 14:20	RSK	TAL PIT
		Instrument ID: A								
Total/NA	Analysis	SM 2540C		1	100 mL	100 mL	368908	08/23/21 14:46	KMM	TAL PIT
		Instrument ID: NOEQUIP								
Total/NA	Analysis	Field Sampling		1			369543	08/18/21 10:45	FDS	TAL PIT
		Instrument ID: NOEQUIP								

Client Sample ID: FB-2

Date Collected: 08/18/21 14:00

Date Received: 08/19/21 09:15

Lab Sample ID: 180-125962-7

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	EPA 300.0 R2.1		1			369715	09/01/21 09:07	J1T	TAL PIT
		Instrument ID: INTEGRION								

Eurofins TestAmerica, Pittsburgh

Lab Chronicle

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

Job ID: 180-125962-1

Client Sample ID: FB-2

Lab Sample ID: 180-125962-7

Date Collected: 08/18/21 14:00

Matrix: Water

Date Received: 08/19/21 09:15

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	50 mL	368994	08/24/21 10:49	TLP	TAL PIT
Total Recoverable	Analysis	EPA 6020B		1			369225	08/25/21 14:46	RSK	TAL PIT
		Instrument ID: A								
Total/NA	Analysis	SM 2540C		1	100 mL	100 mL	368908	08/23/21 14:46	KMM	TAL PIT
		Instrument ID: NOEQUIP								

Client Sample ID: GWC-1

Lab Sample ID: 180-125962-8

Date Collected: 08/18/21 14:15

Matrix: Water

Date Received: 08/19/21 09:15

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	EPA 300.0 R2.1		1			369715	09/01/21 09:25	J1T	TAL PIT
		Instrument ID: INTEGRION								
Total Recoverable	Prep	3005A			50 mL	50 mL	368994	08/24/21 10:49	TLP	TAL PIT
Total Recoverable	Analysis	EPA 6020B		1			369225	08/25/21 14:49	RSK	TAL PIT
		Instrument ID: A								
Total/NA	Analysis	SM 2540C		1	100 mL	100 mL	368908	08/23/21 14:46	KMM	TAL PIT
		Instrument ID: NOEQUIP								
Total/NA	Analysis	Field Sampling		1			369543	08/18/21 14:15	FDS	TAL PIT
		Instrument ID: NOEQUIP								

Client Sample ID: GWC-1A

Lab Sample ID: 180-125962-9

Date Collected: 08/18/21 11:50

Matrix: Water

Date Received: 08/19/21 09:15

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	EPA 300.0 R2.1		1			369773	09/01/21 00:32	DFF	TAL PIT
		Instrument ID: CHIC2100A								
Total Recoverable	Prep	3005A			50 mL	50 mL	368994	08/24/21 10:49	TLP	TAL PIT
Total Recoverable	Analysis	EPA 6020B		1			369225	08/25/21 14:53	RSK	TAL PIT
		Instrument ID: A								
Total/NA	Analysis	SM 2540C		1	100 mL	100 mL	369008	08/24/21 11:27	KMM	TAL PIT
		Instrument ID: NOEQUIP								
Total/NA	Analysis	Field Sampling		1			369543	08/18/21 11:50	FDS	TAL PIT
		Instrument ID: NOEQUIP								

Client Sample ID: DUP-1

Lab Sample ID: 180-125962-10

Date Collected: 08/18/21 00:00

Matrix: Water

Date Received: 08/19/21 09:15

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	EPA 300.0 R2.1		1			369773	09/01/21 00:48	DFF	TAL PIT
		Instrument ID: CHIC2100A								
Total Recoverable	Prep	3005A			50 mL	50 mL	368994	08/24/21 10:49	TLP	TAL PIT
Total Recoverable	Analysis	EPA 6020B		1			369225	08/25/21 14:57	RSK	TAL PIT
		Instrument ID: A								

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Lab Chronicle

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

Job ID: 180-125962-1

Client Sample ID: DUP-1

Date Collected: 08/18/21 00:00

Date Received: 08/19/21 09:15

Lab Sample ID: 180-125962-10

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	SM 2540C		1	100 mL	100 mL	369008	08/24/21 11:27	KMM	TAL PIT

Client Sample ID: GWA-5

Date Collected: 08/17/21 10:03

Date Received: 08/20/21 09:30

Lab Sample ID: 180-125962-11

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	EPA 300.0 R2.1 Instrument ID: INTEGRION		1			369715	09/01/21 05:32	J1T	TAL PIT
Total Recoverable	Prep	3005A			50 mL	50 mL	368994	08/24/21 10:49	TLP	TAL PIT
Total Recoverable	Analysis	EPA 6020B Instrument ID: A		1			369225	08/25/21 15:00	RSK	TAL PIT
Total/NA	Analysis	SM 2540C Instrument ID: NOEQUIP		1	100 mL	100 mL	368810	08/22/21 17:25	KMM	TAL PIT
Total/NA	Analysis	Field Sampling Instrument ID: NOEQUIP		1			369539	08/17/21 10:03	FDS	TAL PIT

Client Sample ID: GWA-4

Date Collected: 08/17/21 11:34

Date Received: 08/20/21 09:30

Lab Sample ID: 180-125962-12

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	EPA 300.0 R2.1 Instrument ID: INTEGRION		1			369715	09/01/21 05:50	J1T	TAL PIT
Total Recoverable	Prep	3005A			50 mL	50 mL	368994	08/24/21 10:49	TLP	TAL PIT
Total Recoverable	Analysis	EPA 6020B Instrument ID: A		1			369225	08/25/21 15:04	RSK	TAL PIT
Total/NA	Analysis	SM 2540C Instrument ID: NOEQUIP		1	100 mL	100 mL	368810	08/22/21 17:25	KMM	TAL PIT
Total/NA	Analysis	Field Sampling Instrument ID: NOEQUIP		1			369539	08/17/21 11:34	FDS	TAL PIT

Client Sample ID: GWA-3A

Date Collected: 08/17/21 12:55

Date Received: 08/20/21 09:30

Lab Sample ID: 180-125962-13

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	EPA 300.0 R2.1 Instrument ID: CHIC2100A		1			369870	09/01/21 09:56	J1T	TAL PIT
Total Recoverable	Prep	3005A			50 mL	50 mL	368994	08/24/21 10:49	TLP	TAL PIT
Total Recoverable	Analysis	EPA 6020B Instrument ID: A		1			369225	08/25/21 15:15	RSK	TAL PIT
Total/NA	Analysis	SM 2540C Instrument ID: NOEQUIP		1	100 mL	100 mL	368811	08/22/21 17:36	KMM	TAL PIT

Eurofins TestAmerica, Pittsburgh

Lab Chronicle

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

Job ID: 180-125962-1

Client Sample ID: GWA-3A

Date Collected: 08/17/21 12:55

Date Received: 08/20/21 09:30

Lab Sample ID: 180-125962-13

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	Field Sampling		1			369539	08/17/21 12:55	FDS	TAL PIT

Client Sample ID: GWA-2B

Date Collected: 08/17/21 14:26

Date Received: 08/20/21 09:30

Lab Sample ID: 180-125962-14

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	EPA 300.0 R2.1 Instrument ID: CHIC2100A		1			369870	09/01/21 10:43	J1T	TAL PIT
Total Recoverable	Prep	3005A			50 mL	50 mL	368994	08/24/21 10:49	TLP	TAL PIT
Total Recoverable	Analysis	EPA 6020B Instrument ID: A		1			369225	08/25/21 15:18	RSK	TAL PIT
Total/NA	Analysis	SM 2540C Instrument ID: NOEQUIP		1	100 mL	100 mL	368811	08/22/21 17:36	KMM	TAL PIT
Total/NA	Analysis	Field Sampling Instrument ID: NOEQUIP		1			369539	08/17/21 14:26	FDS	TAL PIT

Client Sample ID: GWC-2

Date Collected: 08/18/21 09:53

Date Received: 08/20/21 09:30

Lab Sample ID: 180-125962-15

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	EPA 300.0 R2.1 Instrument ID: CHIC2100A		1			369773	09/01/21 01:04	DFE	TAL PIT
Total Recoverable	Prep	3005A			50 mL	50 mL	368994	08/24/21 10:49	TLP	TAL PIT
Total Recoverable	Analysis	EPA 6020B Instrument ID: A		1			369225	08/25/21 15:22	RSK	TAL PIT
Total/NA	Analysis	SM 2540C Instrument ID: NOEQUIP		1	100 mL	100 mL	369008	08/24/21 11:27	KMM	TAL PIT
Total/NA	Analysis	Field Sampling Instrument ID: NOEQUIP		1			369543	08/18/21 09:53	FDS	TAL PIT

Client Sample ID: GWC-4A

Date Collected: 08/18/21 11:05

Date Received: 08/20/21 09:30

Lab Sample ID: 180-125962-16

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	EPA 300.0 R2.1 Instrument ID: CHIC2100A		1			369773	09/01/21 01:51	DFE	TAL PIT
Total Recoverable	Prep	3005A			50 mL	50 mL	368994	08/24/21 10:49	TLP	TAL PIT
Total Recoverable	Analysis	EPA 6020B Instrument ID: A		1			369225	08/25/21 15:26	RSK	TAL PIT
Total/NA	Analysis	SM 2540C Instrument ID: NOEQUIP		1	100 mL	100 mL	369008	08/24/21 11:27	KMM	TAL PIT

Eurofins TestAmerica, Pittsburgh

Lab Chronicle

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

Job ID: 180-125962-1

Client Sample ID: GWC-4A

Date Collected: 08/18/21 11:05

Date Received: 08/20/21 09:30

Lab Sample ID: 180-125962-16

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	Field Sampling		1			369543	08/18/21 11:05	FDS	TAL PIT

Client Sample ID: GWC-5

Date Collected: 08/18/21 12:09

Date Received: 08/20/21 09:30

Lab Sample ID: 180-125962-17

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	EPA 300.0 R2.1 Instrument ID: CHIC2100A		1			369773	08/31/21 23:44	DFE	TAL PIT
Total Recoverable	Prep	3005A			50 mL	50 mL	368994	08/24/21 10:49	TLP	TAL PIT
Total Recoverable	Analysis	EPA 6020B Instrument ID: A		1			369225	08/25/21 15:29	RSK	TAL PIT
Total/NA	Analysis	SM 2540C Instrument ID: NOEQUIP		1	100 mL	100 mL	369008	08/24/21 11:27	KMM	TAL PIT
Total/NA	Analysis	Field Sampling Instrument ID: NOEQUIP		1			369543	08/18/21 12:09	FDS	TAL PIT

Client Sample ID: GWC-5A

Date Collected: 08/18/21 13:52

Date Received: 08/20/21 09:30

Lab Sample ID: 180-125962-18

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	EPA 300.0 R2.1 Instrument ID: CHIC2100A		1			369773	09/01/21 02:07	DFE	TAL PIT
Total Recoverable	Prep	3005A			50 mL	50 mL	368994	08/24/21 10:49	TLP	TAL PIT
Total Recoverable	Analysis	EPA 6020B Instrument ID: A		1			369225	08/25/21 15:33	RSK	TAL PIT
Total/NA	Analysis	SM 2540C Instrument ID: NOEQUIP		1	100 mL	100 mL	369008	08/24/21 11:27	KMM	TAL PIT
Total/NA	Analysis	Field Sampling Instrument ID: NOEQUIP		1			369543	08/18/21 13:52	FDS	TAL PIT

Client Sample ID: FB-1

Date Collected: 08/17/21 11:00

Date Received: 08/20/21 09:30

Lab Sample ID: 180-125962-19

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	EPA 300.0 R2.1 Instrument ID: INTEGRION		1			369894	09/01/21 20:00	J1T	TAL PIT
Total Recoverable	Prep	3005A			50 mL	50 mL	368994	08/24/21 10:49	TLP	TAL PIT
Total Recoverable	Analysis	EPA 6020B Instrument ID: A		1			369225	08/25/21 15:37	RSK	TAL PIT
Total/NA	Analysis	SM 2540C Instrument ID: NOEQUIP		1	100 mL	100 mL	368811	08/22/21 17:36	KMM	TAL PIT

Eurofins TestAmerica, Pittsburgh

Lab Chronicle

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

Job ID: 180-125962-1

Client Sample ID: EB-2

Lab Sample ID: 180-125962-20

Date Collected: 08/18/21 11:50

Matrix: Water

Date Received: 08/20/21 09:30

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	EPA 300.0 R2.1		1			369773	09/01/21 02:23	DFE	TAL PIT
		Instrument ID: CHIC2100A								
Total Recoverable	Prep	3005A			50 mL	50 mL	368994	08/24/21 10:49	TLP	TAL PIT
Total Recoverable	Analysis	EPA 6020B		1			369225	08/25/21 15:40	RSK	TAL PIT
		Instrument ID: A								
Total/NA	Analysis	SM 2540C		1	100 mL	100 mL	369008	08/24/21 11:27	KMM	TAL PIT
		Instrument ID: NOEQUIP								

Client Sample ID: DUP-2

Lab Sample ID: 180-125962-21

Date Collected: 08/18/21 00:00

Matrix: Water

Date Received: 08/20/21 09:30

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	EPA 300.0 R2.1		1			369773	09/01/21 02:39	DFE	TAL PIT
		Instrument ID: CHIC2100A								
Total Recoverable	Prep	3005A			50 mL	50 mL	368994	08/24/21 10:49	TLP	TAL PIT
Total Recoverable	Analysis	EPA 6020B		1			369225	08/25/21 15:44	RSK	TAL PIT
		Instrument ID: A								
Total/NA	Analysis	SM 2540C		1	100 mL	100 mL	369008	08/24/21 11:27	KMM	TAL PIT
		Instrument ID: NOEQUIP								

Laboratory References:

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

Analyst References:

Lab: TAL PIT

Batch Type: Prep

TLP = Tara Peterson

Batch Type: Analysis

DFE = David Eppinger

FDS = Sampler Field

J1T = Jianwu Tang

KMM = Kendric Moore

RSK = Robert Kurtz

Client Sample Results

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

Job ID: 180-125962-1

Client Sample ID: GWA-7A

Lab Sample ID: 180-125962-1

Date Collected: 08/17/21 10:05

Matrix: Water

Date Received: 08/19/21 09:15

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	8.3		1.0	0.71	mg/L			09/01/21 06:44	1
Fluoride	0.033	J F1	0.10	0.026	mg/L			09/01/21 06:44	1
Sulfate	84		1.0	0.76	mg/L			09/01/21 06:44	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Barium	0.054		0.010	0.0016	mg/L		08/24/21 10:44	08/25/21 13:36	1
Beryllium	0.00047	J	0.0025	0.00018	mg/L		08/24/21 10:44	08/25/21 13:36	1
Boron	1.4		0.080	0.039	mg/L		08/24/21 10:44	08/25/21 13:36	1
Calcium	17		0.50	0.13	mg/L		08/24/21 10:44	08/25/21 13:36	1
Chromium	<0.0015		0.0020	0.0015	mg/L		08/24/21 10:44	08/25/21 13:36	1
Cobalt	0.0026		0.0025	0.00013	mg/L		08/24/21 10:44	08/25/21 13:36	1
Copper	0.0025		0.0020	0.00063	mg/L		08/24/21 10:44	08/25/21 13:36	1
Lead	<0.00013		0.0010	0.00013	mg/L		08/24/21 10:44	08/25/21 13:36	1
Vanadium	<0.00099		0.0010	0.00099	mg/L		08/24/21 10:44	08/25/21 13:36	1
Zinc	0.052		0.0050	0.0032	mg/L		08/24/21 10:44	08/25/21 13:36	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	160		10	10	mg/L			08/23/21 14:27	1

Method: Field Sampling - Field Sampling

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
pH	5.51				SU			08/17/21 10:05	1

Client Sample Results

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

Job ID: 180-125962-1

Client Sample ID: GWA-1B

Lab Sample ID: 180-125962-2

Date Collected: 08/17/21 11:35

Matrix: Water

Date Received: 08/19/21 09:15

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	10		1.0	0.71	mg/L			09/01/21 07:38	1
Fluoride	0.090	J	0.10	0.026	mg/L			09/01/21 07:38	1
Sulfate	5.2		1.0	0.76	mg/L			09/01/21 07:38	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Barium	0.022		0.010	0.0016	mg/L		08/24/21 10:44	08/25/21 13:58	1
Beryllium	<0.00018		0.0025	0.00018	mg/L		08/24/21 10:44	08/25/21 13:58	1
Boron	0.11		0.080	0.039	mg/L		08/24/21 10:44	08/25/21 13:58	1
Calcium	3.9		0.50	0.13	mg/L		08/24/21 10:44	08/25/21 13:58	1
Chromium	<0.0015		0.0020	0.0015	mg/L		08/24/21 10:44	08/25/21 13:58	1
Cobalt	0.00025	J	0.0025	0.00013	mg/L		08/24/21 10:44	08/25/21 13:58	1
Copper	<0.00063		0.0020	0.00063	mg/L		08/24/21 10:44	08/25/21 13:58	1
Lead	<0.00013		0.0010	0.00013	mg/L		08/24/21 10:44	08/25/21 13:58	1
Vanadium	<0.00099		0.0010	0.00099	mg/L		08/24/21 10:44	08/25/21 13:58	1
Zinc	0.024		0.0050	0.0032	mg/L		08/24/21 10:44	08/25/21 13:58	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	43		10	10	mg/L			08/22/21 17:25	1

Method: Field Sampling - Field Sampling

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
pH	5.83				SU			08/17/21 11:35	1

Client Sample Results

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

Job ID: 180-125962-1

Client Sample ID: EB-1

Lab Sample ID: 180-125962-3

Date Collected: 08/17/21 13:55

Matrix: Water

Date Received: 08/19/21 09:15

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	<0.71		1.0	0.71	mg/L			09/01/21 07:56	1
Fluoride	0.042	J	0.10	0.026	mg/L			09/01/21 07:56	1
Sulfate	<0.76		1.0	0.76	mg/L			09/01/21 07:56	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Barium	<0.0016		0.010	0.0016	mg/L		08/24/21 10:44	08/25/21 14:02	1
Beryllium	<0.00018		0.0025	0.00018	mg/L		08/24/21 10:44	08/25/21 14:02	1
Boron	0.040	J	0.080	0.039	mg/L		08/24/21 10:44	08/25/21 14:02	1
Calcium	<0.13		0.50	0.13	mg/L		08/24/21 10:44	08/25/21 14:02	1
Chromium	<0.0015		0.0020	0.0015	mg/L		08/24/21 10:44	08/25/21 14:02	1
Cobalt	<0.00013		0.0025	0.00013	mg/L		08/24/21 10:44	08/25/21 14:02	1
Copper	<0.00063		0.0020	0.00063	mg/L		08/24/21 10:44	08/25/21 14:02	1
Lead	<0.00013		0.0010	0.00013	mg/L		08/24/21 10:44	08/25/21 14:02	1
Vanadium	<0.00099		0.0010	0.00099	mg/L		08/24/21 10:44	08/25/21 14:02	1
Zinc	<0.0032		0.0050	0.0032	mg/L		08/24/21 10:44	08/25/21 14:02	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	<10		10	10	mg/L			08/22/21 17:25	1

Client Sample Results

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

Job ID: 180-125962-1

Client Sample ID: GWA-1A

Lab Sample ID: 180-125962-4

Date Collected: 08/17/21 14:00

Matrix: Water

Date Received: 08/19/21 09:15

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	9.1		1.0	0.71	mg/L			09/01/21 08:13	1
Fluoride	0.038	J	0.10	0.026	mg/L			09/01/21 08:13	1
Sulfate	<0.76		1.0	0.76	mg/L			09/01/21 08:13	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Barium	0.025		0.010	0.0016	mg/L		08/24/21 10:44	08/25/21 14:05	1
Beryllium	<0.00018		0.0025	0.00018	mg/L		08/24/21 10:44	08/25/21 14:05	1
Boron	0.049	J	0.080	0.039	mg/L		08/24/21 10:44	08/25/21 14:05	1
Calcium	1.8		0.50	0.13	mg/L		08/24/21 10:44	08/25/21 14:05	1
Chromium	0.0046		0.0020	0.0015	mg/L		08/24/21 10:44	08/25/21 14:05	1
Cobalt	0.00032	J	0.0025	0.00013	mg/L		08/24/21 10:44	08/25/21 14:05	1
Copper	<0.00063		0.0020	0.00063	mg/L		08/24/21 10:44	08/25/21 14:05	1
Lead	<0.00013		0.0010	0.00013	mg/L		08/24/21 10:44	08/25/21 14:05	1
Vanadium	<0.00099		0.0010	0.00099	mg/L		08/24/21 10:44	08/25/21 14:05	1
Zinc	0.048		0.0050	0.0032	mg/L		08/24/21 10:44	08/25/21 14:05	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	36		10	10	mg/L			08/22/21 17:25	1

Method: Field Sampling - Field Sampling

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
pH	5.24				SU			08/17/21 14:00	1

Client Sample Results

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

Job ID: 180-125962-1

Client Sample ID: GWC-6A

Lab Sample ID: 180-125962-5

Date Collected: 08/18/21 09:45

Matrix: Water

Date Received: 08/19/21 09:15

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	12		1.0	0.71	mg/L			09/01/21 08:31	1
Fluoride	0.039	J	0.10	0.026	mg/L			09/01/21 08:31	1
Sulfate	8.3		1.0	0.76	mg/L			09/01/21 08:31	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Barium	0.090		0.010	0.0016	mg/L		08/24/21 10:44	08/25/21 14:09	1
Beryllium	<0.00018		0.0025	0.00018	mg/L		08/24/21 10:44	08/25/21 14:09	1
Boron	0.077	J	0.080	0.039	mg/L		08/24/21 10:44	08/25/21 14:09	1
Calcium	3.8		0.50	0.13	mg/L		08/24/21 10:44	08/25/21 14:09	1
Chromium	<0.0015		0.0020	0.0015	mg/L		08/24/21 10:44	08/25/21 14:09	1
Cobalt	0.0016	J	0.0025	0.00013	mg/L		08/24/21 10:44	08/25/21 14:09	1
Copper	<0.00063		0.0020	0.00063	mg/L		08/24/21 10:44	08/25/21 14:09	1
Lead	<0.00013		0.0010	0.00013	mg/L		08/24/21 10:44	08/25/21 14:09	1
Vanadium	<0.00099		0.0010	0.00099	mg/L		08/24/21 10:44	08/25/21 14:09	1
Zinc	0.072		0.0050	0.0032	mg/L		08/24/21 10:44	08/25/21 14:09	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	61		10	10	mg/L			08/23/21 14:46	1

Method: Field Sampling - Field Sampling

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
pH	5.26				SU			08/18/21 09:45	1

Client Sample Results

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

Job ID: 180-125962-1

Client Sample ID: GWC-6

Lab Sample ID: 180-125962-6

Date Collected: 08/18/21 10:45

Matrix: Water

Date Received: 08/19/21 09:15

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	7.4		1.0	0.71	mg/L			09/01/21 08:49	1
Fluoride	0.040	J	0.10	0.026	mg/L			09/01/21 08:49	1
Sulfate	1.2		1.0	0.76	mg/L			09/01/21 08:49	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Barium	0.047		0.010	0.0016	mg/L		08/24/21 10:49	08/25/21 14:20	1
Beryllium	0.00018	J	0.0025	0.00018	mg/L		08/24/21 10:49	08/25/21 14:20	1
Boron	0.082		0.080	0.039	mg/L		08/24/21 10:49	08/25/21 14:20	1
Calcium	1.6		0.50	0.13	mg/L		08/24/21 10:49	08/25/21 14:20	1
Chromium	<0.0015		0.0020	0.0015	mg/L		08/24/21 10:49	08/25/21 14:20	1
Cobalt	0.00050	J	0.0025	0.00013	mg/L		08/24/21 10:49	08/25/21 14:20	1
Copper	<0.00063		0.0020	0.00063	mg/L		08/24/21 10:49	08/25/21 14:20	1
Lead	<0.00013		0.0010	0.00013	mg/L		08/24/21 10:49	08/25/21 14:20	1
Vanadium	0.0013		0.0010	0.00099	mg/L		08/24/21 10:49	08/25/21 14:20	1
Zinc	0.12		0.0050	0.0032	mg/L		08/24/21 10:49	08/25/21 14:20	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	36		10	10	mg/L			08/23/21 14:46	1

Method: Field Sampling - Field Sampling

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
pH	5.03				SU			08/18/21 10:45	1

Client Sample Results

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

Job ID: 180-125962-1

Client Sample ID: FB-2

Lab Sample ID: 180-125962-7

Date Collected: 08/18/21 14:00

Matrix: Water

Date Received: 08/19/21 09:15

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	<0.71		1.0	0.71	mg/L			09/01/21 09:07	1
Fluoride	0.032	J	0.10	0.026	mg/L			09/01/21 09:07	1
Sulfate	<0.76		1.0	0.76	mg/L			09/01/21 09:07	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Barium	<0.0016		0.010	0.0016	mg/L		08/24/21 10:49	08/25/21 14:46	1
Beryllium	<0.00018		0.0025	0.00018	mg/L		08/24/21 10:49	08/25/21 14:46	1
Boron	0.077	J	0.080	0.039	mg/L		08/24/21 10:49	08/25/21 14:46	1
Calcium	<0.13		0.50	0.13	mg/L		08/24/21 10:49	08/25/21 14:46	1
Chromium	<0.0015		0.0020	0.0015	mg/L		08/24/21 10:49	08/25/21 14:46	1
Cobalt	0.00013	J	0.0025	0.00013	mg/L		08/24/21 10:49	08/25/21 14:46	1
Copper	<0.00063		0.0020	0.00063	mg/L		08/24/21 10:49	08/25/21 14:46	1
Lead	<0.00013		0.0010	0.00013	mg/L		08/24/21 10:49	08/25/21 14:46	1
Vanadium	<0.00099		0.0010	0.00099	mg/L		08/24/21 10:49	08/25/21 14:46	1
Zinc	<0.0032		0.0050	0.0032	mg/L		08/24/21 10:49	08/25/21 14:46	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	<10		10	10	mg/L			08/23/21 14:46	1

Client Sample Results

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

Job ID: 180-125962-1

Client Sample ID: GWC-1

Lab Sample ID: 180-125962-8

Date Collected: 08/18/21 14:15

Matrix: Water

Date Received: 08/19/21 09:15

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	9.9		1.0	0.71	mg/L			09/01/21 09:25	1
Fluoride	0.046	J	0.10	0.026	mg/L			09/01/21 09:25	1
Sulfate	<0.76		1.0	0.76	mg/L			09/01/21 09:25	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Barium	0.029		0.010	0.0016	mg/L		08/24/21 10:49	08/25/21 14:49	1
Beryllium	<0.00018		0.0025	0.00018	mg/L		08/24/21 10:49	08/25/21 14:49	1
Boron	0.070	J	0.080	0.039	mg/L		08/24/21 10:49	08/25/21 14:49	1
Calcium	0.36	J	0.50	0.13	mg/L		08/24/21 10:49	08/25/21 14:49	1
Chromium	<0.0015		0.0020	0.0015	mg/L		08/24/21 10:49	08/25/21 14:49	1
Cobalt	0.00031	J	0.0025	0.00013	mg/L		08/24/21 10:49	08/25/21 14:49	1
Copper	<0.00063		0.0020	0.00063	mg/L		08/24/21 10:49	08/25/21 14:49	1
Lead	0.00015	J	0.0010	0.00013	mg/L		08/24/21 10:49	08/25/21 14:49	1
Vanadium	<0.00099		0.0010	0.00099	mg/L		08/24/21 10:49	08/25/21 14:49	1
Zinc	0.11		0.0050	0.0032	mg/L		08/24/21 10:49	08/25/21 14:49	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	32		10	10	mg/L			08/23/21 14:46	1

Method: Field Sampling - Field Sampling

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
pH	4.94				SU			08/18/21 14:15	1

Client Sample Results

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

Job ID: 180-125962-1

Client Sample ID: GWC-1A

Lab Sample ID: 180-125962-9

Date Collected: 08/18/21 11:50

Matrix: Water

Date Received: 08/19/21 09:15

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	16		1.0	0.71	mg/L			09/01/21 00:32	1
Fluoride	0.072	J	0.10	0.026	mg/L			09/01/21 00:32	1
Sulfate	0.84	J	1.0	0.76	mg/L			09/01/21 00:32	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Barium	0.28		0.010	0.0016	mg/L		08/24/21 10:49	08/25/21 14:53	1
Beryllium	0.00041	J	0.0025	0.00018	mg/L		08/24/21 10:49	08/25/21 14:53	1
Boron	0.25		0.080	0.039	mg/L		08/24/21 10:49	08/25/21 14:53	1
Calcium	2.9		0.50	0.13	mg/L		08/24/21 10:49	08/25/21 14:53	1
Chromium	<0.0015		0.0020	0.0015	mg/L		08/24/21 10:49	08/25/21 14:53	1
Cobalt	0.0053		0.0025	0.00013	mg/L		08/24/21 10:49	08/25/21 14:53	1
Copper	0.00085	J	0.0020	0.00063	mg/L		08/24/21 10:49	08/25/21 14:53	1
Lead	<0.00013		0.0010	0.00013	mg/L		08/24/21 10:49	08/25/21 14:53	1
Vanadium	<0.00099		0.0010	0.00099	mg/L		08/24/21 10:49	08/25/21 14:53	1
Zinc	0.15		0.0050	0.0032	mg/L		08/24/21 10:49	08/25/21 14:53	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	66		10	10	mg/L			08/24/21 11:27	1

Method: Field Sampling - Field Sampling

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
pH	4.59				SU			08/18/21 11:50	1

Client Sample Results

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

Job ID: 180-125962-1

Client Sample ID: DUP-1

Lab Sample ID: 180-125962-10

Date Collected: 08/18/21 00:00

Matrix: Water

Date Received: 08/19/21 09:15

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	3.8		1.0	0.71	mg/L			09/01/21 00:48	1
Fluoride	<0.026		0.10	0.026	mg/L			09/01/21 00:48	1
Sulfate	<0.76		1.0	0.76	mg/L			09/01/21 00:48	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Barium	0.017		0.010	0.0016	mg/L		08/24/21 10:49	08/25/21 14:57	1
Beryllium	<0.00018		0.0025	0.00018	mg/L		08/24/21 10:49	08/25/21 14:57	1
Boron	0.052	J	0.080	0.039	mg/L		08/24/21 10:49	08/25/21 14:57	1
Calcium	0.36	J	0.50	0.13	mg/L		08/24/21 10:49	08/25/21 14:57	1
Chromium	0.0027		0.0020	0.0015	mg/L		08/24/21 10:49	08/25/21 14:57	1
Cobalt	0.00053	J	0.0025	0.00013	mg/L		08/24/21 10:49	08/25/21 14:57	1
Copper	<0.00063		0.0020	0.00063	mg/L		08/24/21 10:49	08/25/21 14:57	1
Lead	<0.00013		0.0010	0.00013	mg/L		08/24/21 10:49	08/25/21 14:57	1
Vanadium	<0.00099		0.0010	0.00099	mg/L		08/24/21 10:49	08/25/21 14:57	1
Zinc	<0.0032		0.0050	0.0032	mg/L		08/24/21 10:49	08/25/21 14:57	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	23		10	10	mg/L			08/24/21 11:27	1

Client Sample Results

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

Job ID: 180-125962-1

Client Sample ID: GWA-5

Date Collected: 08/17/21 10:03

Date Received: 08/20/21 09:30

Lab Sample ID: 180-125962-11

Matrix: Water

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	11		1.0	0.71	mg/L			09/01/21 05:32	1
Fluoride	0.097	J	0.10	0.026	mg/L			09/01/21 05:32	1
Sulfate	11		1.0	0.76	mg/L			09/01/21 05:32	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Barium	0.094		0.010	0.0016	mg/L		08/24/21 10:49	08/25/21 15:00	1
Beryllium	0.00018	J	0.0025	0.00018	mg/L		08/24/21 10:49	08/25/21 15:00	1
Boron	0.067	J	0.080	0.039	mg/L		08/24/21 10:49	08/25/21 15:00	1
Calcium	2.9		0.50	0.13	mg/L		08/24/21 10:49	08/25/21 15:00	1
Chromium	<0.0015		0.0020	0.0015	mg/L		08/24/21 10:49	08/25/21 15:00	1
Cobalt	0.00085	J	0.0025	0.00013	mg/L		08/24/21 10:49	08/25/21 15:00	1
Copper	<0.00063		0.0020	0.00063	mg/L		08/24/21 10:49	08/25/21 15:00	1
Lead	0.00044	J	0.0010	0.00013	mg/L		08/24/21 10:49	08/25/21 15:00	1
Vanadium	0.0018		0.0010	0.00099	mg/L		08/24/21 10:49	08/25/21 15:00	1
Zinc	0.024		0.0050	0.0032	mg/L		08/24/21 10:49	08/25/21 15:00	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	50		10	10	mg/L			08/22/21 17:25	1

Method: Field Sampling - Field Sampling

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
pH	4.62				SU			08/17/21 10:03	1

Client Sample Results

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

Job ID: 180-125962-1

Client Sample ID: GWA-4

Lab Sample ID: 180-125962-12

Date Collected: 08/17/21 11:34

Matrix: Water

Date Received: 08/20/21 09:30

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	6.1		1.0	0.71	mg/L			09/01/21 05:50	1
Fluoride	0.061	J	0.10	0.026	mg/L			09/01/21 05:50	1
Sulfate	5.0		1.0	0.76	mg/L			09/01/21 05:50	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Barium	0.056		0.010	0.0016	mg/L		08/24/21 10:49	08/25/21 15:04	1
Beryllium	<0.00018		0.0025	0.00018	mg/L		08/24/21 10:49	08/25/21 15:04	1
Boron	0.045	J	0.080	0.039	mg/L		08/24/21 10:49	08/25/21 15:04	1
Calcium	1.4		0.50	0.13	mg/L		08/24/21 10:49	08/25/21 15:04	1
Chromium	<0.0015		0.0020	0.0015	mg/L		08/24/21 10:49	08/25/21 15:04	1
Cobalt	0.00096	J	0.0025	0.00013	mg/L		08/24/21 10:49	08/25/21 15:04	1
Copper	<0.00063		0.0020	0.00063	mg/L		08/24/21 10:49	08/25/21 15:04	1
Lead	<0.00013		0.0010	0.00013	mg/L		08/24/21 10:49	08/25/21 15:04	1
Vanadium	<0.00099		0.0010	0.00099	mg/L		08/24/21 10:49	08/25/21 15:04	1
Zinc	0.029		0.0050	0.0032	mg/L		08/24/21 10:49	08/25/21 15:04	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	33		10	10	mg/L			08/22/21 17:25	1

Method: Field Sampling - Field Sampling

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
pH	4.78				SU			08/17/21 11:34	1

Client Sample Results

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

Job ID: 180-125962-1

Client Sample ID: GWA-3A

Lab Sample ID: 180-125962-13

Date Collected: 08/17/21 12:55

Matrix: Water

Date Received: 08/20/21 09:30

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	23	F1	1.0	0.71	mg/L			09/01/21 09:56	1
Fluoride	0.064	J	0.10	0.026	mg/L			09/01/21 09:56	1
Sulfate	<0.76		1.0	0.76	mg/L			09/01/21 09:56	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Barium	0.095		0.010	0.0016	mg/L		08/24/21 10:49	08/25/21 15:15	1
Beryllium	0.00049	J	0.0025	0.00018	mg/L		08/24/21 10:49	08/25/21 15:15	1
Boron	0.098		0.080	0.039	mg/L		08/24/21 10:49	08/25/21 15:15	1
Calcium	3.5		0.50	0.13	mg/L		08/24/21 10:49	08/25/21 15:15	1
Chromium	<0.0015		0.0020	0.0015	mg/L		08/24/21 10:49	08/25/21 15:15	1
Cobalt	0.0020	J	0.0025	0.00013	mg/L		08/24/21 10:49	08/25/21 15:15	1
Copper	<0.00063		0.0020	0.00063	mg/L		08/24/21 10:49	08/25/21 15:15	1
Lead	0.00015	J	0.0010	0.00013	mg/L		08/24/21 10:49	08/25/21 15:15	1
Vanadium	<0.00099		0.0010	0.00099	mg/L		08/24/21 10:49	08/25/21 15:15	1
Zinc	0.014		0.0050	0.0032	mg/L		08/24/21 10:49	08/25/21 15:15	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	83		10	10	mg/L			08/22/21 17:36	1

Method: Field Sampling - Field Sampling

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
pH	4.76				SU			08/17/21 12:55	1

Client Sample Results

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

Job ID: 180-125962-1

Client Sample ID: GWA-2B

Lab Sample ID: 180-125962-14

Date Collected: 08/17/21 14:26

Matrix: Water

Date Received: 08/20/21 09:30

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	7.7		1.0	0.71	mg/L			09/01/21 10:43	1
Fluoride	0.083	J	0.10	0.026	mg/L			09/01/21 10:43	1
Sulfate	54		1.0	0.76	mg/L			09/01/21 10:43	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Barium	0.047		0.010	0.0016	mg/L		08/24/21 10:49	08/25/21 15:18	1
Beryllium	0.00068	J	0.0025	0.00018	mg/L		08/24/21 10:49	08/25/21 15:18	1
Boron	0.68		0.080	0.039	mg/L		08/24/21 10:49	08/25/21 15:18	1
Calcium	15		0.50	0.13	mg/L		08/24/21 10:49	08/25/21 15:18	1
Chromium	<0.0015		0.0020	0.0015	mg/L		08/24/21 10:49	08/25/21 15:18	1
Cobalt	0.00016	J	0.0025	0.00013	mg/L		08/24/21 10:49	08/25/21 15:18	1
Copper	0.0043		0.0020	0.00063	mg/L		08/24/21 10:49	08/25/21 15:18	1
Lead	0.00073	J	0.0010	0.00013	mg/L		08/24/21 10:49	08/25/21 15:18	1
Vanadium	<0.00099		0.0010	0.00099	mg/L		08/24/21 10:49	08/25/21 15:18	1
Zinc	0.026		0.0050	0.0032	mg/L		08/24/21 10:49	08/25/21 15:18	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	130		10	10	mg/L			08/22/21 17:36	1

Method: Field Sampling - Field Sampling

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
pH	5.82				SU			08/17/21 14:26	1

Client Sample Results

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

Job ID: 180-125962-1

Client Sample ID: GWC-2

Lab Sample ID: 180-125962-15

Date Collected: 08/18/21 09:53

Matrix: Water

Date Received: 08/20/21 09:30

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	5.7		1.0	0.71	mg/L			09/01/21 01:04	1
Fluoride	<0.026		0.10	0.026	mg/L			09/01/21 01:04	1
Sulfate	1.2		1.0	0.76	mg/L			09/01/21 01:04	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Barium	0.062		0.010	0.0016	mg/L		08/24/21 10:49	08/25/21 15:22	1
Beryllium	0.00020	J	0.0025	0.00018	mg/L		08/24/21 10:49	08/25/21 15:22	1
Boron	0.095		0.080	0.039	mg/L		08/24/21 10:49	08/25/21 15:22	1
Calcium	1.7		0.50	0.13	mg/L		08/24/21 10:49	08/25/21 15:22	1
Chromium	0.0064		0.0020	0.0015	mg/L		08/24/21 10:49	08/25/21 15:22	1
Cobalt	0.0011	J	0.0025	0.00013	mg/L		08/24/21 10:49	08/25/21 15:22	1
Copper	<0.00063		0.0020	0.00063	mg/L		08/24/21 10:49	08/25/21 15:22	1
Lead	<0.00013		0.0010	0.00013	mg/L		08/24/21 10:49	08/25/21 15:22	1
Vanadium	<0.00099		0.0010	0.00099	mg/L		08/24/21 10:49	08/25/21 15:22	1
Zinc	0.0081		0.0050	0.0032	mg/L		08/24/21 10:49	08/25/21 15:22	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	37		10	10	mg/L			08/24/21 11:27	1

Method: Field Sampling - Field Sampling

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
pH	4.98				SU			08/18/21 09:53	1

Client Sample Results

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

Job ID: 180-125962-1

Client Sample ID: GWC-4A

Lab Sample ID: 180-125962-16

Date Collected: 08/18/21 11:05

Matrix: Water

Date Received: 08/20/21 09:30

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	7.3		1.0	0.71	mg/L			09/01/21 01:51	1
Fluoride	<0.026		0.10	0.026	mg/L			09/01/21 01:51	1
Sulfate	<0.76		1.0	0.76	mg/L			09/01/21 01:51	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Barium	0.032		0.010	0.0016	mg/L		08/24/21 10:49	08/25/21 15:26	1
Beryllium	<0.00018		0.0025	0.00018	mg/L		08/24/21 10:49	08/25/21 15:26	1
Boron	0.043	J	0.080	0.039	mg/L		08/24/21 10:49	08/25/21 15:26	1
Calcium	0.37	J	0.50	0.13	mg/L		08/24/21 10:49	08/25/21 15:26	1
Chromium	<0.0015		0.0020	0.0015	mg/L		08/24/21 10:49	08/25/21 15:26	1
Cobalt	0.00034	J	0.0025	0.00013	mg/L		08/24/21 10:49	08/25/21 15:26	1
Copper	<0.00063		0.0020	0.00063	mg/L		08/24/21 10:49	08/25/21 15:26	1
Lead	<0.00013		0.0010	0.00013	mg/L		08/24/21 10:49	08/25/21 15:26	1
Vanadium	<0.00099		0.0010	0.00099	mg/L		08/24/21 10:49	08/25/21 15:26	1
Zinc	0.012		0.0050	0.0032	mg/L		08/24/21 10:49	08/25/21 15:26	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	29		10	10	mg/L			08/24/21 11:27	1

Method: Field Sampling - Field Sampling

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
pH	4.76				SU			08/18/21 11:05	1

Client Sample Results

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

Job ID: 180-125962-1

Client Sample ID: GWC-5

Lab Sample ID: 180-125962-17

Date Collected: 08/18/21 12:09

Matrix: Water

Date Received: 08/20/21 09:30

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	8.2		1.0	0.71	mg/L			08/31/21 23:44	1
Fluoride	<0.026		0.10	0.026	mg/L			08/31/21 23:44	1
Sulfate	<0.76		1.0	0.76	mg/L			08/31/21 23:44	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Barium	0.49		0.010	0.0016	mg/L		08/24/21 10:49	08/25/21 15:29	1
Beryllium	0.0021	J	0.0025	0.00018	mg/L		08/24/21 10:49	08/25/21 15:29	1
Boron	<0.039		0.080	0.039	mg/L		08/24/21 10:49	08/25/21 15:29	1
Calcium	7.4		0.50	0.13	mg/L		08/24/21 10:49	08/25/21 15:29	1
Chromium	<0.0015		0.0020	0.0015	mg/L		08/24/21 10:49	08/25/21 15:29	1
Cobalt	0.013		0.0025	0.00013	mg/L		08/24/21 10:49	08/25/21 15:29	1
Copper	<0.00063		0.0020	0.00063	mg/L		08/24/21 10:49	08/25/21 15:29	1
Lead	0.00032	J	0.0010	0.00013	mg/L		08/24/21 10:49	08/25/21 15:29	1
Vanadium	<0.00099		0.0010	0.00099	mg/L		08/24/21 10:49	08/25/21 15:29	1
Zinc	0.035		0.0050	0.0032	mg/L		08/24/21 10:49	08/25/21 15:29	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	160		10	10	mg/L			08/24/21 11:27	1

Method: Field Sampling - Field Sampling

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
pH	4.90				SU			08/18/21 12:09	1

Client Sample Results

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

Job ID: 180-125962-1

Client Sample ID: GWC-5A

Lab Sample ID: 180-125962-18

Date Collected: 08/18/21 13:52

Matrix: Water

Date Received: 08/20/21 09:30

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	7.8		1.0	0.71	mg/L			09/01/21 02:07	1
Fluoride	<0.026		0.10	0.026	mg/L			09/01/21 02:07	1
Sulfate	10		1.0	0.76	mg/L			09/01/21 02:07	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Barium	0.052		0.010	0.0016	mg/L		08/24/21 10:49	08/25/21 15:33	1
Beryllium	<0.00018		0.0025	0.00018	mg/L		08/24/21 10:49	08/25/21 15:33	1
Boron	<0.039		0.080	0.039	mg/L		08/24/21 10:49	08/25/21 15:33	1
Calcium	2.7		0.50	0.13	mg/L		08/24/21 10:49	08/25/21 15:33	1
Chromium	<0.0015		0.0020	0.0015	mg/L		08/24/21 10:49	08/25/21 15:33	1
Cobalt	0.0021	J	0.0025	0.00013	mg/L		08/24/21 10:49	08/25/21 15:33	1
Copper	<0.00063		0.0020	0.00063	mg/L		08/24/21 10:49	08/25/21 15:33	1
Lead	0.00021	J	0.0010	0.00013	mg/L		08/24/21 10:49	08/25/21 15:33	1
Vanadium	<0.00099		0.0010	0.00099	mg/L		08/24/21 10:49	08/25/21 15:33	1
Zinc	0.021		0.0050	0.0032	mg/L		08/24/21 10:49	08/25/21 15:33	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	41		10	10	mg/L			08/24/21 11:27	1

Method: Field Sampling - Field Sampling

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
pH	5.17				SU			08/18/21 13:52	1

Client Sample Results

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

Job ID: 180-125962-1

Client Sample ID: FB-1

Lab Sample ID: 180-125962-19

Date Collected: 08/17/21 11:00

Matrix: Water

Date Received: 08/20/21 09:30

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	<0.71		1.0	0.71	mg/L			09/01/21 20:00	1
Fluoride	0.077	J	0.10	0.026	mg/L			09/01/21 20:00	1
Sulfate	<0.76		1.0	0.76	mg/L			09/01/21 20:00	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Barium	<0.0016		0.010	0.0016	mg/L		08/24/21 10:49	08/25/21 15:37	1
Beryllium	<0.00018		0.0025	0.00018	mg/L		08/24/21 10:49	08/25/21 15:37	1
Boron	<0.039		0.080	0.039	mg/L		08/24/21 10:49	08/25/21 15:37	1
Calcium	<0.13		0.50	0.13	mg/L		08/24/21 10:49	08/25/21 15:37	1
Chromium	<0.0015		0.0020	0.0015	mg/L		08/24/21 10:49	08/25/21 15:37	1
Cobalt	<0.00013		0.0025	0.00013	mg/L		08/24/21 10:49	08/25/21 15:37	1
Copper	<0.00063		0.0020	0.00063	mg/L		08/24/21 10:49	08/25/21 15:37	1
Lead	<0.00013		0.0010	0.00013	mg/L		08/24/21 10:49	08/25/21 15:37	1
Vanadium	<0.00099		0.0010	0.00099	mg/L		08/24/21 10:49	08/25/21 15:37	1
Zinc	<0.0032		0.0050	0.0032	mg/L		08/24/21 10:49	08/25/21 15:37	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	<10		10	10	mg/L			08/22/21 17:36	1

Client Sample Results

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

Job ID: 180-125962-1

Client Sample ID: EB-2

Lab Sample ID: 180-125962-20

Date Collected: 08/18/21 11:50

Matrix: Water

Date Received: 08/20/21 09:30

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	<0.71		1.0	0.71	mg/L			09/01/21 02:23	1
Fluoride	<0.026		0.10	0.026	mg/L			09/01/21 02:23	1
Sulfate	<0.76		1.0	0.76	mg/L			09/01/21 02:23	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Barium	<0.0016		0.010	0.0016	mg/L		08/24/21 10:49	08/25/21 15:40	1
Beryllium	<0.00018		0.0025	0.00018	mg/L		08/24/21 10:49	08/25/21 15:40	1
Boron	<0.039		0.080	0.039	mg/L		08/24/21 10:49	08/25/21 15:40	1
Calcium	<0.13		0.50	0.13	mg/L		08/24/21 10:49	08/25/21 15:40	1
Chromium	<0.0015		0.0020	0.0015	mg/L		08/24/21 10:49	08/25/21 15:40	1
Cobalt	<0.00013		0.0025	0.00013	mg/L		08/24/21 10:49	08/25/21 15:40	1
Copper	<0.00063		0.0020	0.00063	mg/L		08/24/21 10:49	08/25/21 15:40	1
Lead	<0.00013		0.0010	0.00013	mg/L		08/24/21 10:49	08/25/21 15:40	1
Vanadium	<0.00099		0.0010	0.00099	mg/L		08/24/21 10:49	08/25/21 15:40	1
Zinc	<0.0032		0.0050	0.0032	mg/L		08/24/21 10:49	08/25/21 15:40	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	<10		10	10	mg/L			08/24/21 11:27	1

Client Sample Results

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

Job ID: 180-125962-1

Client Sample ID: DUP-2

Lab Sample ID: 180-125962-21

Date Collected: 08/18/21 00:00

Matrix: Water

Date Received: 08/20/21 09:30

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	7.7		1.0	0.71	mg/L			09/01/21 02:39	1
Fluoride	<0.026		0.10	0.026	mg/L			09/01/21 02:39	1
Sulfate	11		1.0	0.76	mg/L			09/01/21 02:39	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Barium	0.050		0.010	0.0016	mg/L		08/24/21 10:49	08/25/21 15:44	1
Beryllium	<0.00018		0.0025	0.00018	mg/L		08/24/21 10:49	08/25/21 15:44	1
Boron	<0.039		0.080	0.039	mg/L		08/24/21 10:49	08/25/21 15:44	1
Calcium	2.7		0.50	0.13	mg/L		08/24/21 10:49	08/25/21 15:44	1
Chromium	<0.0015		0.0020	0.0015	mg/L		08/24/21 10:49	08/25/21 15:44	1
Cobalt	0.0022	J	0.0025	0.00013	mg/L		08/24/21 10:49	08/25/21 15:44	1
Copper	<0.00063		0.0020	0.00063	mg/L		08/24/21 10:49	08/25/21 15:44	1
Lead	0.00017	J	0.0010	0.00013	mg/L		08/24/21 10:49	08/25/21 15:44	1
Vanadium	<0.00099		0.0010	0.00099	mg/L		08/24/21 10:49	08/25/21 15:44	1
Zinc	0.012		0.0050	0.0032	mg/L		08/24/21 10:49	08/25/21 15:44	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	56		10	10	mg/L			08/24/21 11:27	1

QC Sample Results

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

Job ID: 180-125962-1

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

Lab Sample ID: MB 180-369715/19

Matrix: Water

Analysis Batch: 369715

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	<0.71		1.0	0.71	mg/L			08/31/21 15:15	1
Fluoride	<0.026		0.10	0.026	mg/L			08/31/21 15:15	1
Sulfate	<0.76		1.0	0.76	mg/L			08/31/21 15:15	1

Lab Sample ID: MB 180-369715/49

Matrix: Water

Analysis Batch: 369715

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	<0.71		1.0	0.71	mg/L			09/01/21 00:29	1
Fluoride	<0.026		0.10	0.026	mg/L			09/01/21 00:29	1
Sulfate	<0.76		1.0	0.76	mg/L			09/01/21 00:29	1

Lab Sample ID: LCS 180-369715/48

Matrix: Water

Analysis Batch: 369715

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Chloride	50.0	50.6		mg/L		101	90 - 110
Fluoride	2.50	2.60		mg/L		104	90 - 110
Sulfate	50.0	50.2		mg/L		100	90 - 110

Lab Sample ID: 180-125962-1 MS

Matrix: Water

Analysis Batch: 369715

Client Sample ID: GWA-7A

Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Chloride	8.3		50.0	62.2		mg/L		108	90 - 110
Fluoride	0.033	J F1	2.50	2.85	F1	mg/L		113	90 - 110
Sulfate	84		50.0	137		mg/L		106	90 - 110

Lab Sample ID: 180-125962-1 MSD

Matrix: Water

Analysis Batch: 369715

Client Sample ID: GWA-7A

Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Chloride	8.3		50.0	62.1		mg/L		108	90 - 110	0	20
Fluoride	0.033	J F1	2.50	2.82	F1	mg/L		111	90 - 110	1	20
Sulfate	84		50.0	136		mg/L		105	90 - 110	0	20

Lab Sample ID: MB 180-369773/45

Matrix: Water

Analysis Batch: 369773

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	<0.71		1.0	0.71	mg/L			08/31/21 22:57	1
Fluoride	<0.026		0.10	0.026	mg/L			08/31/21 22:57	1
Sulfate	<0.76		1.0	0.76	mg/L			08/31/21 22:57	1

Eurofins TestAmerica, Pittsburgh

QC Sample Results

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

Job ID: 180-125962-1

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

Lab Sample ID: MB 180-369773/7

Matrix: Water

Analysis Batch: 369773

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	<0.71		1.0	0.71	mg/L			08/31/21 13:01	1
Fluoride	<0.026		0.10	0.026	mg/L			08/31/21 13:01	1
Sulfate	<0.76		1.0	0.76	mg/L			08/31/21 13:01	1

Lab Sample ID: LCS 180-369773/43

Matrix: Water

Analysis Batch: 369773

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Chloride	50.0	51.2		mg/L		102	90 - 110
Fluoride	2.50	2.66		mg/L		106	90 - 110
Sulfate	50.0	50.3		mg/L		101	90 - 110

Lab Sample ID: 180-125962-17 MS

Matrix: Water

Analysis Batch: 369773

Client Sample ID: GWC-5

Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Chloride	8.2		50.0	57.6		mg/L		99	90 - 110
Fluoride	<0.026		2.50	2.54		mg/L		101	90 - 110
Sulfate	<0.76		50.0	49.4		mg/L		99	90 - 110

Lab Sample ID: 180-125962-17 MSD

Matrix: Water

Analysis Batch: 369773

Client Sample ID: GWC-5

Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Chloride	8.2		50.0	58.3		mg/L		100	90 - 110	1	20
Fluoride	<0.026		2.50	2.54		mg/L		102	90 - 110	0	20
Sulfate	<0.76		50.0	49.2		mg/L		98	90 - 110	0	20

Lab Sample ID: MB 180-369870/7

Matrix: Water

Analysis Batch: 369870

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	<0.71		1.0	0.71	mg/L			09/01/21 09:24	1
Fluoride	<0.026		0.10	0.026	mg/L			09/01/21 09:24	1
Sulfate	<0.76		1.0	0.76	mg/L			09/01/21 09:24	1

Lab Sample ID: LCS 180-369870/6

Matrix: Water

Analysis Batch: 369870

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Chloride	50.0	49.6		mg/L		99	90 - 110
Fluoride	2.50	2.58		mg/L		103	90 - 110
Sulfate	50.0	48.7		mg/L		97	90 - 110

QC Sample Results

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

Job ID: 180-125962-1

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

Lab Sample ID: 180-125962-13 MS

Matrix: Water

Analysis Batch: 369870

Client Sample ID: GWA-3A

Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Chloride	23	F1	50.0	67.8	F1	mg/L		89	90 - 110
Fluoride	0.064	J	2.50	2.56		mg/L		100	90 - 110
Sulfate	<0.76		50.0	46.9		mg/L		94	90 - 110

Lab Sample ID: 180-125962-13 MSD

Matrix: Water

Analysis Batch: 369870

Client Sample ID: GWA-3A

Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Chloride	23	F1	50.0	68.6		mg/L		91	90 - 110	1	20
Fluoride	0.064	J	2.50	2.57		mg/L		100	90 - 110	0	20
Sulfate	<0.76		50.0	47.2		mg/L		94	90 - 110	0	20

Lab Sample ID: MB 180-369894/6

Matrix: Water

Analysis Batch: 369894

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	<0.71		1.0	0.71	mg/L			09/01/21 11:57	1
Fluoride	<0.026		0.10	0.026	mg/L			09/01/21 11:57	1
Sulfate	<0.76		1.0	0.76	mg/L			09/01/21 11:57	1

Lab Sample ID: LCS 180-369894/5

Matrix: Water

Analysis Batch: 369894

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Chloride	50.0	49.2		mg/L		98	90 - 110
Fluoride	2.50	2.62		mg/L		105	90 - 110
Sulfate	50.0	49.0		mg/L		98	90 - 110

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

Lab Sample ID: MB 180-368990/1-A

Matrix: Water

Analysis Batch: 369225

Client Sample ID: Method Blank

Prep Type: Total Recoverable

Prep Batch: 368990

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Barium	<0.0016		0.010	0.0016	mg/L		08/24/21 10:44	08/25/21 10:37	1
Beryllium	<0.00018		0.0025	0.00018	mg/L		08/24/21 10:44	08/25/21 10:37	1
Boron	<0.039		0.080	0.039	mg/L		08/24/21 10:44	08/25/21 10:37	1
Calcium	<0.13		0.50	0.13	mg/L		08/24/21 10:44	08/25/21 10:37	1
Chromium	<0.0015		0.0020	0.0015	mg/L		08/24/21 10:44	08/25/21 10:37	1
Cobalt	<0.00013		0.0025	0.00013	mg/L		08/24/21 10:44	08/25/21 10:37	1
Copper	<0.00063		0.0020	0.00063	mg/L		08/24/21 10:44	08/25/21 10:37	1
Lead	<0.00013		0.0010	0.00013	mg/L		08/24/21 10:44	08/25/21 10:37	1
Vanadium	<0.00099		0.0010	0.00099	mg/L		08/24/21 10:44	08/25/21 10:37	1
Zinc	<0.0032		0.0050	0.0032	mg/L		08/24/21 10:44	08/25/21 10:37	1

Eurofins TestAmerica, Pittsburgh

QC Sample Results

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

Job ID: 180-125962-1

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

Lab Sample ID: LCS 180-368990/2-A

Matrix: Water

Analysis Batch: 369225

Client Sample ID: Lab Control Sample

Prep Type: Total Recoverable

Prep Batch: 368990

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Barium	1.00	1.02		mg/L		102	80 - 120
Beryllium	0.500	0.503		mg/L		101	80 - 120
Boron	1.25	1.25		mg/L		100	80 - 120
Calcium	25.0	27.2		mg/L		109	80 - 120
Chromium	0.500	0.520		mg/L		104	80 - 120
Cobalt	0.500	0.513		mg/L		103	80 - 120
Copper	0.500	0.511		mg/L		102	80 - 120
Lead	0.500	0.525		mg/L		105	80 - 120
Vanadium	0.500	0.511		mg/L		102	80 - 120
Zinc	0.250	0.258		mg/L		103	80 - 120

Lab Sample ID: MB 180-368994/1-A

Matrix: Water

Analysis Batch: 369225

Client Sample ID: Method Blank

Prep Type: Total Recoverable

Prep Batch: 368994

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Barium	<0.0016		0.010	0.0016	mg/L		08/24/21 10:49	08/25/21 14:13	1
Beryllium	<0.00018		0.0025	0.00018	mg/L		08/24/21 10:49	08/25/21 14:13	1
Boron	<0.039		0.080	0.039	mg/L		08/24/21 10:49	08/25/21 14:13	1
Calcium	<0.13		0.50	0.13	mg/L		08/24/21 10:49	08/25/21 14:13	1
Chromium	<0.0015		0.0020	0.0015	mg/L		08/24/21 10:49	08/25/21 14:13	1
Cobalt	<0.00013		0.0025	0.00013	mg/L		08/24/21 10:49	08/25/21 14:13	1
Copper	<0.00063		0.0020	0.00063	mg/L		08/24/21 10:49	08/25/21 14:13	1
Lead	<0.00013		0.0010	0.00013	mg/L		08/24/21 10:49	08/25/21 14:13	1
Vanadium	<0.00099		0.0010	0.00099	mg/L		08/24/21 10:49	08/25/21 14:13	1
Zinc	<0.0032		0.0050	0.0032	mg/L		08/24/21 10:49	08/25/21 14:13	1

Lab Sample ID: LCS 180-368994/2-A

Matrix: Water

Analysis Batch: 369225

Client Sample ID: Lab Control Sample

Prep Type: Total Recoverable

Prep Batch: 368994

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Barium	1.00	1.03		mg/L		103	80 - 120
Beryllium	0.500	0.476		mg/L		95	80 - 120
Boron	1.25	1.27		mg/L		102	80 - 120
Calcium	25.0	27.4		mg/L		110	80 - 120
Chromium	0.500	0.525		mg/L		105	80 - 120
Cobalt	0.500	0.515		mg/L		103	80 - 120
Copper	0.500	0.508		mg/L		102	80 - 120
Lead	0.500	0.528		mg/L		106	80 - 120
Vanadium	0.500	0.521		mg/L		104	80 - 120
Zinc	0.250	0.256		mg/L		102	80 - 120

Lab Sample ID: 180-125962-6 MS

Matrix: Water

Analysis Batch: 369225

Client Sample ID: GWC-6

Prep Type: Total Recoverable

Prep Batch: 368994

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Barium	0.047		1.00	1.09		mg/L		104	75 - 125

Eurofins TestAmerica, Pittsburgh

QC Sample Results

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

Job ID: 180-125962-1

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

Lab Sample ID: 180-125962-6 MS

Matrix: Water

Analysis Batch: 369225

Client Sample ID: GWC-6

Prep Type: Total Recoverable

Prep Batch: 368994

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Beryllium	0.00018	J	0.500	0.472		mg/L		94	75 - 125
Boron	0.082		1.25	1.29		mg/L		96	75 - 125
Calcium	1.6		25.0	29.2		mg/L		110	75 - 125
Chromium	<0.0015		0.500	0.531		mg/L		106	75 - 125
Cobalt	0.00050	J	0.500	0.514		mg/L		103	75 - 125
Copper	<0.00063		0.500	0.511		mg/L		102	75 - 125
Lead	<0.00013		0.500	0.528		mg/L		106	75 - 125
Vanadium	0.0013		0.500	0.523		mg/L		104	75 - 125
Zinc	0.12		0.250	0.380		mg/L		103	75 - 125

Lab Sample ID: 180-125962-6 MSD

Matrix: Water

Analysis Batch: 369225

Client Sample ID: GWC-6

Prep Type: Total Recoverable

Prep Batch: 368994

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Barium	0.047		1.00	1.08		mg/L		103	75 - 125	1	20
Beryllium	0.00018	J	0.500	0.462		mg/L		92	75 - 125	2	20
Boron	0.082		1.25	1.29		mg/L		96	75 - 125	0	20
Calcium	1.6		25.0	28.4		mg/L		107	75 - 125	3	20
Chromium	<0.0015		0.500	0.527		mg/L		105	75 - 125	1	20
Cobalt	0.00050	J	0.500	0.510		mg/L		102	75 - 125	1	20
Copper	<0.00063		0.500	0.510		mg/L		102	75 - 125	0	20
Lead	<0.00013		0.500	0.530		mg/L		106	75 - 125	0	20
Vanadium	0.0013		0.500	0.514		mg/L		103	75 - 125	2	20
Zinc	0.12		0.250	0.376		mg/L		101	75 - 125	1	20

Method: SM 2540C - Solids, Total Dissolved (TDS)

Lab Sample ID: MB 180-368810/2

Matrix: Water

Analysis Batch: 368810

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			08/22/21 17:25	1

Lab Sample ID: LCS 180-368810/1

Matrix: Water

Analysis Batch: 368810

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	685	652		mg/L		95	80 - 120

Lab Sample ID: MB 180-368811/2

Matrix: Water

Analysis Batch: 368811

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			08/22/21 17:36	1

Eurofins TestAmerica, Pittsburgh

QC Sample Results

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

Job ID: 180-125962-1

Method: SM 2540C - Solids, Total Dissolved (TDS) (Continued)

Lab Sample ID: LCS 180-368811/1

Matrix: Water

Analysis Batch: 368811

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	685	704		mg/L		103	80 - 120

Lab Sample ID: 180-125962-13 DU

Matrix: Water

Analysis Batch: 368811

Client Sample ID: GWA-3A

Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
Total Dissolved Solids	83		84.0		mg/L		1	10

Lab Sample ID: MB 180-368905/2

Matrix: Water

Analysis Batch: 368905

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			08/23/21 14:27	1

Lab Sample ID: LCS 180-368905/1

Matrix: Water

Analysis Batch: 368905

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	685	672		mg/L		98	80 - 120

Lab Sample ID: 180-125962-1 DU

Matrix: Water

Analysis Batch: 368905

Client Sample ID: GWA-7A

Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
Total Dissolved Solids	160		173		mg/L		5	10

Lab Sample ID: MB 180-368908/2

Matrix: Water

Analysis Batch: 368908

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			08/23/21 14:46	1

Lab Sample ID: LCS 180-368908/1

Matrix: Water

Analysis Batch: 368908

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	685	670		mg/L		98	80 - 120

Lab Sample ID: MB 180-369008/2

Matrix: Water

Analysis Batch: 369008

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			08/24/21 11:27	1

Eurofins TestAmerica, Pittsburgh

QC Sample Results

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

Job ID: 180-125962-1

Method: SM 2540C - Solids, Total Dissolved (TDS)

Lab Sample ID: LCS 180-369008/1

Matrix: Water

Analysis Batch: 369008

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	685	694		mg/L		101	80 - 120

Lab Sample ID: 180-125962-9 DU

Matrix: Water

Analysis Batch: 369008

Client Sample ID: GWC-1A

Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
Total Dissolved Solids	66		65.0		mg/L		2	10

QC Association Summary

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

Job ID: 180-125962-1

HPLC/IC

Analysis Batch: 369715

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-125962-1	GWA-7A	Total/NA	Water	EPA 300.0 R2.1	
180-125962-2	GWA-1B	Total/NA	Water	EPA 300.0 R2.1	
180-125962-3	EB-1	Total/NA	Water	EPA 300.0 R2.1	
180-125962-4	GWA-1A	Total/NA	Water	EPA 300.0 R2.1	
180-125962-5	GWC-6A	Total/NA	Water	EPA 300.0 R2.1	
180-125962-6	GWC-6	Total/NA	Water	EPA 300.0 R2.1	
180-125962-7	FB-2	Total/NA	Water	EPA 300.0 R2.1	
180-125962-8	GWC-1	Total/NA	Water	EPA 300.0 R2.1	
180-125962-11	GWA-5	Total/NA	Water	EPA 300.0 R2.1	
180-125962-12	GWA-4	Total/NA	Water	EPA 300.0 R2.1	
MB 180-369715/19	Method Blank	Total/NA	Water	EPA 300.0 R2.1	
MB 180-369715/49	Method Blank	Total/NA	Water	EPA 300.0 R2.1	
LCS 180-369715/48	Lab Control Sample	Total/NA	Water	EPA 300.0 R2.1	
180-125962-1 MS	GWA-7A	Total/NA	Water	EPA 300.0 R2.1	
180-125962-1 MSD	GWA-7A	Total/NA	Water	EPA 300.0 R2.1	

Analysis Batch: 369773

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-125962-9	GWC-1A	Total/NA	Water	EPA 300.0 R2.1	
180-125962-10	DUP-1	Total/NA	Water	EPA 300.0 R2.1	
180-125962-15	GWC-2	Total/NA	Water	EPA 300.0 R2.1	
180-125962-16	GWC-4A	Total/NA	Water	EPA 300.0 R2.1	
180-125962-17	GWC-5	Total/NA	Water	EPA 300.0 R2.1	
180-125962-18	GWC-5A	Total/NA	Water	EPA 300.0 R2.1	
180-125962-20	EB-2	Total/NA	Water	EPA 300.0 R2.1	
180-125962-21	DUP-2	Total/NA	Water	EPA 300.0 R2.1	
MB 180-369773/45	Method Blank	Total/NA	Water	EPA 300.0 R2.1	
MB 180-369773/7	Method Blank	Total/NA	Water	EPA 300.0 R2.1	
LCS 180-369773/43	Lab Control Sample	Total/NA	Water	EPA 300.0 R2.1	
180-125962-17 MS	GWC-5	Total/NA	Water	EPA 300.0 R2.1	
180-125962-17 MSD	GWC-5	Total/NA	Water	EPA 300.0 R2.1	

Analysis Batch: 369870

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-125962-13	GWA-3A	Total/NA	Water	EPA 300.0 R2.1	
180-125962-14	GWA-2B	Total/NA	Water	EPA 300.0 R2.1	
MB 180-369870/7	Method Blank	Total/NA	Water	EPA 300.0 R2.1	
LCS 180-369870/6	Lab Control Sample	Total/NA	Water	EPA 300.0 R2.1	
180-125962-13 MS	GWA-3A	Total/NA	Water	EPA 300.0 R2.1	
180-125962-13 MSD	GWA-3A	Total/NA	Water	EPA 300.0 R2.1	

Analysis Batch: 369894

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-125962-19	FB-1	Total/NA	Water	EPA 300.0 R2.1	
MB 180-369894/6	Method Blank	Total/NA	Water	EPA 300.0 R2.1	
LCS 180-369894/5	Lab Control Sample	Total/NA	Water	EPA 300.0 R2.1	

QC Association Summary

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

Job ID: 180-125962-1

Metals

Prep Batch: 368990

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-125962-1	GWA-7A	Total Recoverable	Water	3005A	
180-125962-2	GWA-1B	Total Recoverable	Water	3005A	
180-125962-3	EB-1	Total Recoverable	Water	3005A	
180-125962-4	GWA-1A	Total Recoverable	Water	3005A	
180-125962-5	GWC-6A	Total Recoverable	Water	3005A	
MB 180-368990/1-A	Method Blank	Total Recoverable	Water	3005A	
LCS 180-368990/2-A	Lab Control Sample	Total Recoverable	Water	3005A	

Prep Batch: 368994

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-125962-6	GWC-6	Total Recoverable	Water	3005A	
180-125962-7	FB-2	Total Recoverable	Water	3005A	
180-125962-8	GWC-1	Total Recoverable	Water	3005A	
180-125962-9	GWC-1A	Total Recoverable	Water	3005A	
180-125962-10	DUP-1	Total Recoverable	Water	3005A	
180-125962-11	GWA-5	Total Recoverable	Water	3005A	
180-125962-12	GWA-4	Total Recoverable	Water	3005A	
180-125962-13	GWA-3A	Total Recoverable	Water	3005A	
180-125962-14	GWA-2B	Total Recoverable	Water	3005A	
180-125962-15	GWC-2	Total Recoverable	Water	3005A	
180-125962-16	GWC-4A	Total Recoverable	Water	3005A	
180-125962-17	GWC-5	Total Recoverable	Water	3005A	
180-125962-18	GWC-5A	Total Recoverable	Water	3005A	
180-125962-19	FB-1	Total Recoverable	Water	3005A	
180-125962-20	EB-2	Total Recoverable	Water	3005A	
180-125962-21	DUP-2	Total Recoverable	Water	3005A	
MB 180-368994/1-A	Method Blank	Total Recoverable	Water	3005A	
LCS 180-368994/2-A	Lab Control Sample	Total Recoverable	Water	3005A	
180-125962-6 MS	GWC-6	Total Recoverable	Water	3005A	
180-125962-6 MSD	GWC-6	Total Recoverable	Water	3005A	

Analysis Batch: 369225

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-125962-1	GWA-7A	Total Recoverable	Water	EPA 6020B	368990
180-125962-2	GWA-1B	Total Recoverable	Water	EPA 6020B	368990
180-125962-3	EB-1	Total Recoverable	Water	EPA 6020B	368990
180-125962-4	GWA-1A	Total Recoverable	Water	EPA 6020B	368990
180-125962-5	GWC-6A	Total Recoverable	Water	EPA 6020B	368990
180-125962-6	GWC-6	Total Recoverable	Water	EPA 6020B	368994
180-125962-7	FB-2	Total Recoverable	Water	EPA 6020B	368994
180-125962-8	GWC-1	Total Recoverable	Water	EPA 6020B	368994
180-125962-9	GWC-1A	Total Recoverable	Water	EPA 6020B	368994
180-125962-10	DUP-1	Total Recoverable	Water	EPA 6020B	368994
180-125962-11	GWA-5	Total Recoverable	Water	EPA 6020B	368994
180-125962-12	GWA-4	Total Recoverable	Water	EPA 6020B	368994
180-125962-13	GWA-3A	Total Recoverable	Water	EPA 6020B	368994
180-125962-14	GWA-2B	Total Recoverable	Water	EPA 6020B	368994
180-125962-15	GWC-2	Total Recoverable	Water	EPA 6020B	368994
180-125962-16	GWC-4A	Total Recoverable	Water	EPA 6020B	368994
180-125962-17	GWC-5	Total Recoverable	Water	EPA 6020B	368994
180-125962-18	GWC-5A	Total Recoverable	Water	EPA 6020B	368994

Eurofins TestAmerica, Pittsburgh

QC Association Summary

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

Job ID: 180-125962-1

Metals (Continued)

Analysis Batch: 369225 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-125962-19	FB-1	Total Recoverable	Water	EPA 6020B	368994
180-125962-20	EB-2	Total Recoverable	Water	EPA 6020B	368994
180-125962-21	DUP-2	Total Recoverable	Water	EPA 6020B	368994
MB 180-368990/1-A	Method Blank	Total Recoverable	Water	EPA 6020B	368990
MB 180-368994/1-A	Method Blank	Total Recoverable	Water	EPA 6020B	368994
LCS 180-368990/2-A	Lab Control Sample	Total Recoverable	Water	EPA 6020B	368990
LCS 180-368994/2-A	Lab Control Sample	Total Recoverable	Water	EPA 6020B	368994
180-125962-6 MS	GWC-6	Total Recoverable	Water	EPA 6020B	368994
180-125962-6 MSD	GWC-6	Total Recoverable	Water	EPA 6020B	368994

General Chemistry

Analysis Batch: 368810

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-125962-2	GWA-1B	Total/NA	Water	SM 2540C	
180-125962-3	EB-1	Total/NA	Water	SM 2540C	
180-125962-4	GWA-1A	Total/NA	Water	SM 2540C	
180-125962-11	GWA-5	Total/NA	Water	SM 2540C	
180-125962-12	GWA-4	Total/NA	Water	SM 2540C	
MB 180-368810/2	Method Blank	Total/NA	Water	SM 2540C	
LCS 180-368810/1	Lab Control Sample	Total/NA	Water	SM 2540C	

Analysis Batch: 368811

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-125962-13	GWA-3A	Total/NA	Water	SM 2540C	
180-125962-14	GWA-2B	Total/NA	Water	SM 2540C	
180-125962-19	FB-1	Total/NA	Water	SM 2540C	
MB 180-368811/2	Method Blank	Total/NA	Water	SM 2540C	
LCS 180-368811/1	Lab Control Sample	Total/NA	Water	SM 2540C	
180-125962-13 DU	GWA-3A	Total/NA	Water	SM 2540C	

Analysis Batch: 368905

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-125962-1	GWA-7A	Total/NA	Water	SM 2540C	
MB 180-368905/2	Method Blank	Total/NA	Water	SM 2540C	
LCS 180-368905/1	Lab Control Sample	Total/NA	Water	SM 2540C	
180-125962-1 DU	GWA-7A	Total/NA	Water	SM 2540C	

Analysis Batch: 368908

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-125962-5	GWC-6A	Total/NA	Water	SM 2540C	
180-125962-6	GWC-6	Total/NA	Water	SM 2540C	
180-125962-7	FB-2	Total/NA	Water	SM 2540C	
180-125962-8	GWC-1	Total/NA	Water	SM 2540C	
MB 180-368908/2	Method Blank	Total/NA	Water	SM 2540C	
LCS 180-368908/1	Lab Control Sample	Total/NA	Water	SM 2540C	

Analysis Batch: 369008

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-125962-9	GWC-1A	Total/NA	Water	SM 2540C	
180-125962-10	DUP-1	Total/NA	Water	SM 2540C	

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QC Association Summary

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

Job ID: 180-125962-1

General Chemistry (Continued)

Analysis Batch: 369008 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-125962-15	GWC-2	Total/NA	Water	SM 2540C	
180-125962-16	GWC-4A	Total/NA	Water	SM 2540C	
180-125962-17	GWC-5	Total/NA	Water	SM 2540C	
180-125962-18	GWC-5A	Total/NA	Water	SM 2540C	
180-125962-20	EB-2	Total/NA	Water	SM 2540C	
180-125962-21	DUP-2	Total/NA	Water	SM 2540C	
MB 180-369008/2	Method Blank	Total/NA	Water	SM 2540C	
LCS 180-369008/1	Lab Control Sample	Total/NA	Water	SM 2540C	
180-125962-9 DU	GWC-1A	Total/NA	Water	SM 2540C	

Field Service / Mobile Lab

Analysis Batch: 369539

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-125962-1	GWA-7A	Total/NA	Water	Field Sampling	
180-125962-2	GWA-1B	Total/NA	Water	Field Sampling	
180-125962-4	GWA-1A	Total/NA	Water	Field Sampling	
180-125962-11	GWA-5	Total/NA	Water	Field Sampling	
180-125962-12	GWA-4	Total/NA	Water	Field Sampling	
180-125962-13	GWA-3A	Total/NA	Water	Field Sampling	
180-125962-14	GWA-2B	Total/NA	Water	Field Sampling	

Analysis Batch: 369543

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-125962-5	GWC-6A	Total/NA	Water	Field Sampling	
180-125962-6	GWC-6	Total/NA	Water	Field Sampling	
180-125962-8	GWC-1	Total/NA	Water	Field Sampling	
180-125962-9	GWC-1A	Total/NA	Water	Field Sampling	
180-125962-15	GWC-2	Total/NA	Water	Field Sampling	
180-125962-16	GWC-4A	Total/NA	Water	Field Sampling	
180-125962-17	GWC-5	Total/NA	Water	Field Sampling	
180-125962-18	GWC-5A	Total/NA	Water	Field Sampling	

Eurofins TestAmerica, Pittsburgh

301 Alpha Drive RIDC Park

Pittsburgh, PA 15238

Phone (412) 963-7058 Fax (412) 963-2468

Chain of Custody Record



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180-125962 Chain of Custody

Client Information		Sampler: <i>J. Brown</i>		Lab PM: Brown, Shali		Carrier T:							
Client Contact:		Phone: <i>770-594-5988</i>		E-Mail: shali.brown@eurofinset.com									
SCS Contacts													
Company: GA Power		Analysis Requested				Job #:							
Address: 241 Ralph McGill Blvd SE		Due Date Requested:				Preservation Codes:							
City: Atlanta		TAT Requested (days):				A - HCL M - Hexane							
State, Zip: GA, 30308						B - NaOH N - None							
Phone: 404-506-7116(Tel)		PO #:				C - Zn Acetate O - AsNaO2							
Email: SCS Contacts		WO #:				D - Nitric Acid P - Na2O4S							
Project Name: Plant McIntosh Landfill #3		Project #: 18019950				E - NaHSO4 Q - Na2SO3							
Site: Georgia		SSOW#:				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)							
						Other:							
						Special Instructions/Note:							
						APP III plus 8 State Metals							
Sample Identification		Sample Date	Sample Time	Sample Type (C=Comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MSMSD (Yes or No)	APP III Metals: B,Ca	Cl, F, SO₄ & 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	pH
GWA-7A		8-17-21	1005	G	W	NN	✓	✓	✓			2	pH = 5.51
GWA-1B		8-17-21	1135	G	W	NN	✓	✓	✓			2	pH = 5.83
EB-1 EB-1		8-17-21	1355	G	W	NN	✓	✓	✓			2	pH =
GWA-1A		8-17-21	1400	G	W	NN	✓	✓	✓			2	pH = 5.24
GWC-6A		8-18-21	0945	G	W	NN	✓	✓	✓			2	pH = 5.26
GWC-6		8-18-21	1045	G	W	NN	✓	✓	✓			2	pH = 5.03
FB-2		8-18-21	1400	G	W	NN	✓	✓	✓			2	pH =
GWC-1		8-18-21	1415	G	W	NN	✓	✓	✓			2	pH = 4.94
GWC-1A		8/18/21	1150	G	W	NN	✓	✓	✓				pH = 4.59
Dup-1		8-18-21		G	W	NN	✓	✓	✓			2	pH =
Possible Hazard Identification						Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)							
☐ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☒ Unknown ☐ Radiological						☐ Return To Client ☐ Disposal By Lab ☐ Archive For _____ Months							
Deliverable Requested: I, II, III, IV, Other (specify)						Special Instructions/QC Requirements:							
Empty Kit Relinquished by:		Date:		Time:		Method of Shipment:							
Relinquished by: <i>[Signature]</i>		Date/Time: 8/18/21 1710		Company:		Received by: <i>[Signature]</i>		Date/Time: 8-17-21		Company: <i>[Signature]</i>			
Relinquished by:		Date/Time:		Company:		Received by:		Date/Time: 9:15		Company:			
Relinquished by:		Date/Time:		Company:		Received by:		Date/Time:		Company:			
Custody Seals Intact:		Custody Seal No.:				Cooler Temperature(s) °C and Other Remarks:							

Eurofins TestAmerica, Pittsburgh

301 Alpha Drive RIDC Park

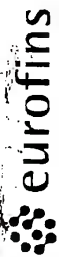
Pittsburgh, PA 15238

Phone (412) 963-7058 Fax (412) 963-2468

Chain of Custody Record

Environment Testing
America

Client Information		Sampler: <u>T. Gobie</u>		Lab PM: Brown, Shali		Carrier Tracking No(s):		COC No:					
Client Contact: SCS Contacts		Phone: <u>770-594-5998</u>		E-Mail: <u>shali.brown@eurofinset.com</u>				Page:					
Company: GA Power						Analysis Requested		Job #:					
Address: 241 Ralph McGill Blvd SE		Due Date Requested:		Field Filtered Sample (Yes or No) ☒ P = Lead, Mn, MS/MSD (Yes or No) ☒ APP III Metals: B, Ca, Cu, 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: 2		Preservation Codes:					
City: Atlanta		TAT Requested (days):						A - HCL B - NaOH C - Zn Acetate D - Nitric Acid E - NaHSO ₄ F - MeOH G - Amchlor H - Ascorbic Acid I - Ice J - DI Water K - EDTA L - EDA		M - Hexane N - None O - AsNaO ₂ P - Na ₂ O ₄ S Q - Na ₂ SO ₃ R - Na ₂ S ₂ O ₃ S - H ₂ SO ₄ T - TSP Dodecahydrate U - Acetone V - MCAA W - pH 4-5 Z - other (specify)			
State, Zip: GA, 30308		PO #:											
Phone: 404-506-7116(Tel)		WO #:											
Email: SCS Contacts		Project #: 18019950											
Project Name: Plant McIntosh Landfill #3		SSOW#:											
Site: Georgia													
Sample Identification		Sample Date	Sample Time	Sample Type (C=comp, G=grab)	Matrix (W=water, S=solid, O=waste/soil, BT=tissue, A=air)	Field Filtered Sample (Yes or No)		Special Instructions/Note:					
						APP III plus 8 State Metals							
GWA-5		8-17-21	1003	G	W	N	✓	✓	pH = 4.62				
GWA-4		8-17-21	1134	G	W	N	✓	✓	pH = 4.78				
GWA-3A		8-17-21	1255	G	W	N	✓	✓	pH = 4.76				
GWA-2A GWA-2B		8-17-21	1426	G	W	N	✓	✓	pH = 5.82				
GWC-2		8-18-21	0953	G	W	N	✓	✓	pH = 4.98				
GWC-4A		8-18-21	1105	G	W	N	✓	✓	pH = 4.76				
GWC-5		8-18-21	1209	G	W	N	✓	✓	pH = 4.90				
GWC-5A		8-18-21	1352	G	W	N	✓	✓	pH = 5.17				
FB-1		8-17-21	1100	G	W	N	✓	✓	pH = —				
EB-2		8-18-21	1150	G	W	N	✓	✓	pH = —				
Dup-2		8-18-21	—	G	W	N	✓	✓	—				
Possible Hazard Identification						Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)							
☐ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown ☐ Radiological						☐ Return To Client ☐ Disposal By Lab ☐ Archive For _____ Months							
Deliverable Requested: I, II, III, IV, Other (specify)						Special Instructions/QC Requirements:							
Empty Kit Relinquished by:		Date:		Time:		Method of Shipment:							
Relinquished by:		Date/Time: 8/18/21 1710		Company:		Received by:		Date/Time: 8-19-21					
Relinquished by:		Date/Time:		Company:		Received by:		Date/Time: 9/15					
Relinquished by:		Date/Time:		Company:		Received by:		Date/Time:					
Custody Seals Intact: ☒ Yes ☐ No		Custody Seal No.:		Cooler Temperature(s) °C and Other Remarks:									



Environment Testing
TestAmerica

RT 98
FZ

10:30 A
7757
08/19

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

SAVANNAH, GA 31404
UNITED STATES US

DATE: 18AUG21
ACTY: 30.00 LB PHN
CRD: 0801261/CAFE3409

BILL RECIPIENT

TO SAMPLE CUSTODY

TESTAMERICA LABORATORIES, INC.

301 ALPHA DRIVE

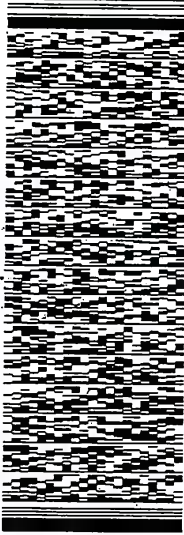
RIDC PARK

PITTSBURGH PA 15238

(412) 963-7053

REF: FORWARD PER SHALL BROWN

FedEx
Express



1 of 3

TRK# 1328 9412 7757

MASTER

XH AGCA

THU - 19 AUG 10:30A
PRIORITY OVERNIGHT

15238

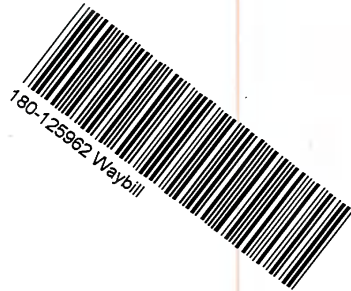
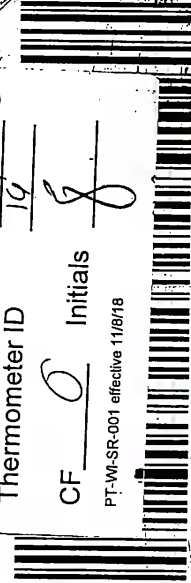
PIT

Uncorrected temp
Thermometer ID

2.1
19 °C

CF Initials

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

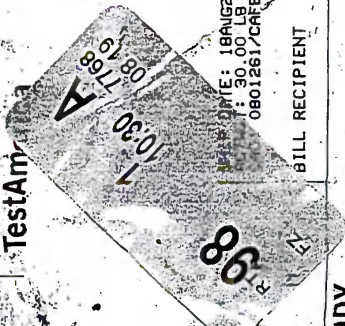


180-125962 Waybill

Art # 159469-434 RIT2 EXP 11/21

eurofins

Environment Testing
TestAmerica



ORIGIN ID: SAVA (912)
SHIP TO: TESTAMERICA
EUROFINS
5102 LA ROUCHE AVE
SAVANNAH, GA 31404
UNITED STATES US

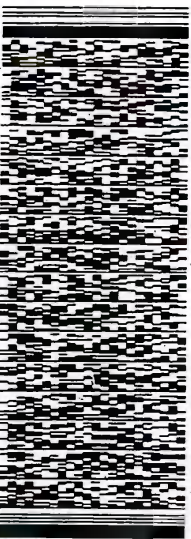
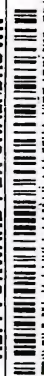
DATE: 18AUG21
TIME: 30.00 LB MAN
0801261/CRF3409

BILL RECIPIENT

TO **SAMPLE CUSTODY**

TESTAMERICA LABORATORIES, INC.
301 ALPHA DRIVE
RIDC PARK
PITTSBURGH PA 15238

(412) 863-7053
REF: FORWARD PER SHALL BROWN



2 of 3
MPS# 1328 9412 7768
Mstr# 1328 9412 7757

XH AGCA

15238
PA-US PIT

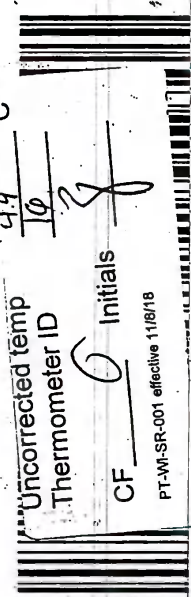
THU - 19 AUG 10:30A
PRIORITY OVERNIGHT

4.4 °C

Uncorrected temp
Thermometer ID

CF Initials

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



Login Sample Receipt Checklist

Client: Southern Company

Job Number: 180-125962-1

Login Number: 125962

List Source: Eurofins TestAmerica, Pittsburgh

List Number: 1

Creator: Watson, Debbie

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.	False	
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 $<6\text{mm}$ (1/4").	True	
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: 180-125962-1

Login Number: 125962

List Source: Eurofins TestAmerica, Pittsburgh

List Number: 2

Creator: Watson, Debbie

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	
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 sample IDs on the containers and the COC.	True	
Samples are received within Holding Time.	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 $<6\text{mm}$ (1/4").	True	
If necessary, staff have been informed of any short hold time or quick TAT needs	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	N/A	

LEVEL 2A LABORATORY DATA VALIDATIONS

McIntosh Inactive Landfill No. 3

Semiannual Event

August 2021

Georgia Power Company – McIntosh Landfill 3

Quality Control Review of Analytical Data – August 2021

This narrative presents results of the Quality Control (QC) data review performed on analytical data submitted by Eurofins TestAmerica, Pittsburgh for groundwater samples collected at McIntosh LF3 between August 17, 2021 and August 18, 2021. 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 CFR, Subpart D – Standards for the Disposal of Coal Combustion Residuals in Landfills and Surface Impoundments, the samples were analyzed for detected monitoring constituents listed in 40 CFR, Part 257, Appendix III and assessment monitoring constituents listed in 40 CFR, Part 257, Appendix IV. Test methods included Inductively Coupled Plasma – Mass Spectrometry (USEPA Method 6020B), 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 (COCs) were reviewed. Where there was a discrepancy between the QC criteria in the guidelines and the QC criterion established in the analytical methodology, method-specific criteria or professional judgment were used.

DATA QUALITY OBJECTIVES

Laboratory Precision: Laboratory goals for precision were met.

Field Precision: Field goals for precision were met, with the exceptions of barium, calcium, total dissolved solids (TDS), and chloride in GWC-6A (180-125962-5) and zinc and TDS in GWC-5A (180-125962-18) as described in the qualifications section below.

Accuracy: Laboratory goals for accuracy were met, with the exceptions of fluoride in GWA-7A (180-125962-1) and chloride in GWA-3A (180-125962-13) 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 GWC-6A (180-125962-5) and DUP-1 (180-125962-10) were qualified as estimated (J) for barium, calcium, TDS, and chloride as the field relative percent differences (RPDs) exceeded QC criteria (136.45%, 165.38%, 90.48%, and 103.80%, respectively, above the limit of 20).

- Samples GWC-5A (180-125962-18) and DUP-2 (180-125962-21) were qualified as estimated (J) for zinc and TDS as the field RPDs exceeded QC criteria (54.55% and 30.93%, respectively, above the limit of 20).
- Sample GWA-7A (180-125962-1) was qualified as estimated (J) for fluoride as the associated matrix spike (MS) and matrix spike duplicate (MSD) recoveries were above the QC criteria (113% and 111% above the range of 90-110).
- Sample GWA-3A (180-125962-13) was qualified as estimated (J) for chloride as the associated MS recovery was below the QC criteria (89% below the range of 90-110).

Atlantic Coast Consulting, Inc. reviewed the laboratory data from McIntosh LF3 sampled between August 17, 2021 and August 18, 2021 in accordance with the analytical methods, the laboratory-specified QC criteria, and the guidelines. As described above, the results were acceptable for project use.

REFERENCES

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

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

TABLE 1
Georgia Power Company – McIntosh LF3
Sample Summary Table – August 2021

SDG	Field Identification	Collection Date	Lab Identification	Matrix	QC Samples	Analyses		
						Metals (6020B)	Anions (300.0)	TDS (SM 2540C)
125962	GWA-7A	8/17/2021	180-125962-1	GW		X	X	X
125962	GWA-1B	8/17/2021	180-125962-2	GW		X	X	X
125962	EB-1	8/17/2021	180-125962-3	WQ	EB	X	X	X
125962	GWA-1A	8/17/2021	180-125962-4	GW		X	X	X
125962	GWC-6A	8/18/2021	180-125962-5	GW		X	X	X
125962	GWC-6	8/18/2021	180-125962-6	GW		X	X	X
125962	FB-2	8/18/2021	180-125962-7	WQ	FB	X	X	X
125962	GWC-1	8/18/2021	180-125962-8	GW		X	X	X
125962	GWC-1A	8/18/2021	180-125962-9	GW		X	X	X
125962	DUP-1	8/18/2021	180-125962-10	GW	FD (GWC-6A)	X	X	X
125962	GWA-5	8/17/2021	180-125962-11	GW		X	X	X
125962	GWA-4	8/17/2021	180-125962-12	GW		X	X	X
125962	GWA-3A	8/17/2021	180-125962-13	GW		X	X	X
125962	GWA-2B	8/17/2021	180-125962-14	GW		X	X	X
125962	GWC-2	8/18/2021	180-125962-15	GW		X	X	X
125962	GWC-4A	8/18/2021	180-125962-16	GW		X	X	X
125962	GWC-5	8/18/2021	180-125962-17	GW		X	X	X
125962	GWC-5A	8/18/2021	180-125962-18	GW		X	X	X
125962	FB-1	8/17/2021	180-125962-19	WQ	FB	X	X	X
125962	EB-2	8/18/2021	180-125962-20	WQ	EB	X	X	X
125962	DUP-2	8/18/2021	180-125962-21	GW	FD (GWC-5A)	X	X	X

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

TABLE 2
Georgia Power Company – McIntosh LF3
Qualifier Summary Table – August 2021

SDG	Field Identification	Constituent	New RL	New MDL or MDC	Qualifier	Reason
125962	GWA-7A	Fluoride			J	MS/MSD outside QC criteria
125962	GWA-3A	Chloride			J	MS outside QC criteria
125962	GWC-6A	Barium			J	RPD exceeds field goal
125962	DUP-1	Barium			J	RPD exceeds field goal
125962	GWC-6A	Calcium			J	RPD exceeds field goal
125962	DUP-1	Calcium			J	RPD exceeds field goal
125962	GWC-6A	TDS			J	RPD exceeds field goal
125962	DUP-1	TDS			J	RPD exceeds field goal
125962	GWC-6A	Chloride			J	RPD exceeds field goal
125962	DUP-1	Chloride			J	RPD exceeds field goal
125962	GWA-5A	Zinc			J	RPD exceeds field goal
125962	DUP-2	Zinc			J	RPD exceeds field goal
125962	GWA-5A	TDS			J	RPD exceeds field goal
125962	DUP-2	TDS			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: 8/17/2021 1:35:31 PM
Project: McIntosh LF 3
Operator Name: Jordan Berisford

Location Name: GWA-1A Well Diameter: 2 in Casing Type: PVC Screen Length: 10 ft Top of Screen: 27.36 ft Total Depth: 37.36 ft Initial Depth to Water: 13.06 ft	Pump Type: Peristaltic Pump Tubing Type: Poly Pump Intake From TOC: 32 ft Estimated Total Volume Pumped: 5 liter Flow Cell Volume: 90 ml Final Flow Rate: 200 ml/min Final Draw Down: 3.6 in	Instrument Used: Aqua TROLL 400 Serial Number: 850751
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Test Notes:
Rain 83F, sample time 1400, EB-1 here at 1355 -gloves

Low-Flow Readings:

Date Time	Elapsed Time	pH	Temperature	Specific Conductivity	RDO Concentration	Turbidity	ORP	Depth To Water	Flow
		+/- 0.1	+/- 10	+/- 5 %	+/- 10 %	+/- 10	+/- 100	+/- 0.3	
8/17/2021 1:35 PM	00:00	5.30 pH	22.89 °C	49.70 µS/cm	0.79 mg/L	1.11 NTU	173.7 mV	13.06 ft	200.00 ml/min
8/17/2021 1:40 PM	05:00	5.28 pH	22.49 °C	50.78 µS/cm	0.69 mg/L	1.27 NTU	133.9 mV	13.30 ft	200.00 ml/min
8/17/2021 1:45 PM	10:00	5.27 pH	22.41 °C	50.26 µS/cm	0.61 mg/L	1.55 NTU	117.5 mV	13.30 ft	200.00 ml/min
8/17/2021 1:50 PM	15:00	5.26 pH	22.32 °C	50.09 µS/cm	0.60 mg/L	1.72 NTU	108.7 mV	13.30 ft	200.00 ml/min
8/17/2021 1:55 PM	20:00	5.25 pH	22.18 °C	49.70 µS/cm	0.60 mg/L	1.62 NTU	102.5 mV	13.30 ft	200.00 ml/min
8/17/2021 2:00 PM	25:00	5.24 pH	22.09 °C	48.93 µS/cm	0.60 mg/L	1.56 NTU	98.2 mV	13.30 ft	200.00 ml/min

Samples

Sample ID:	Description:
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Low-Flow Test Report:

Test Date / Time: 8/17/2021 10:35:24 AM
Project: McIntosh LF 3
Operator Name: Jordan Berisford

Location Name: GWA-1B Well Diameter: 2 in Casing Type: PVC Screen Length: 10 ft Top of Screen: 48.61 ft Total Depth: 58.61 ft Initial Depth to Water: 20.59 ft	Pump Type: Peristaltic Pump Tubing Type: Poly Pump Intake From TOC: 53 ft Estimated Total Volume Pumped: 15 liter Flow Cell Volume: 90 ml Final Flow Rate: 250 ml/min Final Draw Down: 1.2 in	Instrument Used: Aqua TROLL 400 Serial Number: 850751
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Test Notes:
Sunny 86F, sample time 1135

Low-Flow Readings:

Date Time	Elapsed Time	pH	Temperature	Specific Conductivity	RDO Concentration	Turbidity	ORP	Depth To Water	Flow
		+/- 0.1	+/- 10	+/- 5 %	+/- 10 %	+/- 10	+/- 100	+/- 0.3	
8/17/2021 10:35 AM	00:00	5.83 pH	24.70 °C	54.20 µS/cm	5.85 mg/L	0.98 NTU	175.5 mV	20.59 ft	250.00 ml/min
8/17/2021 10:40 AM	05:00	5.80 pH	21.47 °C	51.78 µS/cm	4.69 mg/L	0.62 NTU	137.6 mV	20.70 ft	250.00 ml/min
8/17/2021 10:45 AM	10:00	5.82 pH	21.38 °C	51.90 µS/cm	4.68 mg/L	0.73 NTU	125.9 mV	20.70 ft	250.00 ml/min
8/17/2021 10:50 AM	15:00	5.80 pH	21.38 °C	51.80 µS/cm	4.34 mg/L	1.21 NTU	108.0 mV	20.70 ft	250.00 ml/min
8/17/2021 10:55 AM	20:00	5.72 pH	21.43 °C	51.33 µS/cm	3.35 mg/L	1.10 NTU	76.5 mV	20.70 ft	250.00 ml/min
8/17/2021 11:00 AM	25:00	5.70 pH	21.29 °C	54.87 µS/cm	2.49 mg/L	0.98 NTU	83.0 mV	20.70 ft	250.00 ml/min
8/17/2021 11:05 AM	30:00	5.70 pH	21.24 °C	58.55 µS/cm	1.53 mg/L	0.95 NTU	68.3 mV	20.70 ft	250.00 ml/min
8/17/2021 11:10 AM	35:00	5.74 pH	21.44 °C	60.44 µS/cm	1.19 mg/L	0.99 NTU	51.2 mV	20.70 ft	250.00 ml/min
8/17/2021 11:15 AM	40:00	5.76 pH	21.31 °C	62.02 µS/cm	1.01 mg/L	1.11 NTU	48.4 mV	20.70 ft	250.00 ml/min
8/17/2021 11:20 AM	45:00	5.77 pH	21.50 °C	61.65 µS/cm	0.87 mg/L	0.84 NTU	46.8 mV	20.70 ft	250.00 ml/min
8/17/2021 11:25 AM	50:00	5.79 pH	21.51 °C	63.66 µS/cm	0.69 mg/L	0.59 NTU	43.4 mV	20.70 ft	250.00 ml/min
8/17/2021 11:30 AM	55:00	5.79 pH	21.39 °C	64.22 µS/cm	0.71 mg/L	0.77 NTU	43.9 mV	20.70 ft	250.00 ml/min
8/17/2021 11:35 AM	01:00:00	5.83 pH	21.38 °C	64.85 µS/cm	0.64 mg/L	1.04 NTU	41.6 mV	20.70 ft	250.00 ml/min

Samples

Low-Flow Test Report:

Test Date / Time: 8/17/2021 1:56:18 PM
Project: McIntosh LF3
Operator Name: Taylor Goble

Location Name: GWA-2B Well Diameter: 2 in Casing Type: PVC Screen Length: 10 ft Top of Screen: 53.09 ft Total Depth: 63.09 ft Initial Depth to Water: 18 ft	Pump Type: Peri Pump Tubing Type: Poly Pump Intake From TOC: 58.09 ft Estimated Total Volume Pumped: 3560 ml Flow Cell Volume: 90 ml Final Flow Rate: 120 ml/min Final Draw Down: 14 in	Instrument Used: Aqua TROLL 400 Serial Number: 843593
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Test Notes:
Sampled at 1426. Showers 83 degrees.

Low-Flow Readings:

Date Time	Elapsed Time	pH	Temperature	Specific Conductivity	RDO Concentration	Turbidity	ORP	Depth To Water	Flow
		+/- 0.1	+/- 1	+/- 5 %	+/- 0.3	+/- 10	+/- 25	+/- 5	
8/17/2021 1:56 PM	00:00	5.86 pH	27.95 °C	188.39 µS/cm	5.58 mg/L	4.44 NTU	137.9 mV	18.28 ft	120.00 ml/min
8/17/2021 2:01 PM	05:00	5.84 pH	25.24 °C	192.30 µS/cm	4.14 mg/L	2.67 NTU	89.2 mV	18.54 ft	120.00 ml/min
8/17/2021 2:06 PM	10:00	5.82 pH	24.48 °C	194.08 µS/cm	4.03 mg/L	1.72 NTU	81.2 mV	18.80 ft	120.00 ml/min
8/17/2021 2:11 PM	15:00	5.83 pH	24.42 °C	194.61 µS/cm	3.99 mg/L	1.60 NTU	78.4 mV	18.93 ft	120.00 ml/min
8/17/2021 2:16 PM	20:00	5.82 pH	24.81 °C	194.66 µS/cm	3.93 mg/L	1.44 NTU	78.7 mV	19.05 ft	120.00 ml/min
8/17/2021 2:21 PM	25:00	5.82 pH	24.78 °C	193.03 µS/cm	3.90 mg/L	1.79 NTU	75.4 mV	19.12 ft	120.00 ml/min
8/17/2021 2:25 PM	29:40	5.82 pH	24.63 °C	192.55 µS/cm	3.90 mg/L	2.12 NTU	79.7 mV	19.20 ft	120.00 ml/min

Samples

Sample ID:	Description:
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Low-Flow Test Report:

Test Date / Time: 8/17/2021 12:25:26 PM
Project: McIntosh LF3
Operator Name: Taylor Goble

Location Name: GWA-3A Well Diameter: 2 in Casing Type: PVC Screen Length: 10 ft Top of Screen: 23.9 ft Total Depth: 33.9 ft Initial Depth to Water: 14.35 ft	Pump Type: Peri Pump Tubing Type: Poly Pump Intake From TOC: 28.9 ft Estimated Total Volume Pumped: 3658 ml Flow Cell Volume: 90 ml Final Flow Rate: 120 ml/min Final Draw Down: 12 in	Instrument Used: Aqua TROLL 400 Serial Number: 843593
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Test Notes:
Sampled at 1255. Mostly cloudy 88 degrees

Low-Flow Readings:

Date Time	Elapsed Time	pH	Temperature	Specific Conductivity	RDO Concentration	Turbidity	ORP	Depth To Water	Flow
		+/- 0.1	+/- 1	+/- 5 %	+/- 0.3	+/- 10	+/- 25	+/- 5	
8/17/2021 12:25 PM	00:00	4.78 pH	26.92 °C	94.18 µS/cm	2.76 mg/L	7.23 NTU	174.5 mV	14.72 ft	120.00 ml/min
8/17/2021 12:30 PM	05:00	4.77 pH	24.98 °C	95.29 µS/cm	1.26 mg/L	6.01 NTU	116.5 mV	14.88 ft	120.00 ml/min
8/17/2021 12:35 PM	10:00	4.75 pH	24.74 °C	94.67 µS/cm	1.00 mg/L	4.63 NTU	159.8 mV	15.01 ft	120.00 ml/min
8/17/2021 12:40 PM	15:29	4.76 pH	24.85 °C	95.43 µS/cm	0.92 mg/L	8.04 NTU	114.6 mV	15.10 ft	120.00 ml/min
8/17/2021 12:45 PM	20:29	4.73 pH	24.87 °C	95.33 µS/cm	0.87 mg/L	7.51 NTU	104.3 mV	15.22 ft	120.00 ml/min
8/17/2021 12:50 PM	25:29	4.75 pH	25.01 °C	94.82 µS/cm	0.88 mg/L	5.42 NTU	104.0 mV	15.30 ft	120.00 ml/min
8/17/2021 12:55 PM	30:29	4.76 pH	24.94 °C	93.54 µS/cm	0.87 mg/L	4.67 NTU	100.1 mV	15.39 ft	120.00 ml/min

Samples

Sample ID:	Description:
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Low-Flow Test Report:

Test Date / Time: 8/17/2021 10:51:47 AM
Project: McIntosh LF3
Operator Name: Taylor Goble

Location Name: GWA-4 Well Diameter: 2 in Casing Type: PVC Screen Length: 10 ft Top of Screen: 19.17 ft Total Depth: 29.17 ft Initial Depth to Water: 14.34 ft	Pump Type: Peri Pump Tubing Type: Poly Pump Intake From TOC: 24.17 ft Estimated Total Volume Pumped: 3565 ml Flow Cell Volume: 90 ml Final Flow Rate: 70 ml/min Final Draw Down: 26 in	Instrument Used: Aqua TROLL 400 Serial Number: 843593
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Test Notes:
Sampled at 1134. Mostly cloudy 86 degrees. FB-1 here at 1100.

Low-Flow Readings:

Date Time	Elapsed Time	pH	Temperature	Specific Conductivity	RDO Concentration	Turbidity	ORP	Depth To Water	Flow
		+/- 0.1	+/- 1	+/- 5 %	+/- 0.3	+/- 10	+/- 25	+/- 5	
8/17/2021 10:51 AM	00:00	4.83 pH	28.77 °C	50.59 µS/cm	6.37 mg/L	4.18 NTU	160.6 mV	15.00 ft	100.00 ml/min
8/17/2021 10:56 AM	05:00	4.80 pH	26.42 °C	50.00 µS/cm	3.59 mg/L	3.56 NTU	119.4 mV	15.27 ft	100.00 ml/min
8/17/2021 11:01 AM	10:00	4.79 pH	25.93 °C	49.98 µS/cm	3.16 mg/L	2.81 NTU	112.6 mV	15.53 ft	100.00 ml/min
8/17/2021 11:06 AM	15:00	4.79 pH	26.15 °C	50.01 µS/cm	3.12 mg/L	2.15 NTU	107.6 mV	15.76 ft	100.00 ml/min
8/17/2021 11:11 AM	20:00	4.79 pH	25.78 °C	50.21 µS/cm	3.01 mg/L	2.72 NTU	104.9 mV	16.09 ft	70.00 ml/min
8/17/2021 11:19 AM	27:23	4.79 pH	26.24 °C	50.26 µS/cm	2.83 mg/L	2.55 NTU	140.0 mV	16.20 ft	70.00 ml/min
8/17/2021 11:24 AM	32:23	4.79 pH	25.92 °C	50.29 µS/cm	2.77 mg/L	2.51 NTU	108.5 mV	16.32 ft	70.00 ml/min
8/17/2021 11:29 AM	37:23	4.77 pH	25.73 °C	50.70 µS/cm	2.74 mg/L	2.23 NTU	106.9 mV	16.42 ft	70.00 ml/min
8/17/2021 11:34 AM	42:23	4.78 pH	26.01 °C	51.03 µS/cm	2.64 mg/L	1.91 NTU	104.7 mV	16.54 ft	70.00 ml/min

Samples

Sample ID:	Description:
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Low-Flow Test Report:

Test Date / Time: 8/17/2021 9:31:54 AM
Project: McIntosh LF3
Operator Name: Taylor Goble

Location Name: GWA-5 Well Diameter: 2 in Casing Type: PVC Screen Length: 13.47 ft Top of Screen: 18.48 ft Total Depth: 28.48 ft Initial Depth to Water: 13.47 ft	Pump Type: Peri Pump Tubing Type: Poly Pump Intake From TOC: 23.48 ft Estimated Total Volume Pumped: 2849 ml Flow Cell Volume: 90 ml Final Flow Rate: 80 ml/min Final Draw Down: 16 in	Instrument Used: Aqua TROLL 400 Serial Number: 843593
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Test Notes:
Sampled at 1003. Partly cloudy 82 degrees.

Low-Flow Readings:

Date Time	Elapsed Time	pH	Temperature	Specific Conductivity	RDO Concentration	Turbidity	ORP	Depth To Water	Flow
		+/- 0.1	+/- 1	+/- 5 %	+/- 0.3	+/- 10	+/- 25	+/- 5	
8/17/2021 9:31 AM	00:00	4.75 pH	25.90 °C	157.75 µS/cm	6.14 mg/L	6.99 NTU	188.9 mV	13.60 ft	100.00 ml/min
8/17/2021 9:35 AM	03:11	4.66 pH	24.40 °C	80.40 µS/cm	2.37 mg/L	5.12 NTU	170.7 mV	13.74 ft	100.00 ml/min
8/17/2021 9:40 AM	08:11	4.64 pH	23.97 °C	79.79 µS/cm	1.73 mg/L	3.85 NTU	137.9 mV	14.05 ft	100.00 ml/min
8/17/2021 9:45 AM	13:11	4.64 pH	24.10 °C	79.89 µS/cm	1.69 mg/L	2.77 NTU	125.5 mV	14.26 ft	100.00 ml/min
8/17/2021 9:50 AM	18:11	4.62 pH	24.60 °C	79.63 µS/cm	1.68 mg/L	2.44 NTU	119.9 mV	14.40 ft	80.00 ml/min
8/17/2021 9:55 AM	23:11	4.61 pH	24.74 °C	79.54 µS/cm	1.63 mg/L	2.27 NTU	117.1 mV	14.47 ft	80.00 ml/min
8/17/2021 9:57 AM	26:04	4.61 pH	24.96 °C	79.56 µS/cm	1.60 mg/L	2.09 NTU	112.9 mV	14.55 ft	80.00 ml/min
8/17/2021 10:02 AM	31:04	4.62 pH	25.01 °C	79.37 µS/cm	1.54 mg/L	2.02 NTU	114.2 mV	14.62 ft	80.00 ml/min

Samples

Sample ID:	Description:
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Low-Flow Test Report:

Test Date / Time: 8/17/2021 9:30:41 AM
Project: McIntosh LF 3
Operator Name: Jordan 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: 21.56 ft	Pump Type: Peristaltic Pump Tubing Type: Poly Pump Intake From TOC: 41 ft Estimated Total Volume Pumped: 5.25 liter Flow Cell Volume: 90 ml Final Flow Rate: 150 ml/min Final Draw Down: 12.5 in	Instrument Used: Aqua TROLL 400 Serial Number: 850751
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Test Notes:
Sunny 85F, sample time 1005

Low-Flow Readings:

Date Time	Elapsed Time	pH	Temperature	Specific Conductivity	RDO Concentration	Turbidity	ORP	Depth To Water	Flow
		+/- 0.1	+/- 10	+/- 5 %	+/- 0.2	+/- 10	+/- 100	+/- 0.3	
8/17/2021 9:30 AM	00:00	13.98 pH	27.53 °C	0.00 µS/cm	7.91 mg/L	3.87 NTU	251.8 mV	21.56 ft	150.00 ml/min
8/17/2021 9:35 AM	05:00	5.54 pH	22.55 °C	171.92 µS/cm	3.65 mg/L	3.14 NTU	180.0 mV	22.30 ft	150.00 ml/min
8/17/2021 9:40 AM	10:00	5.53 pH	22.18 °C	165.08 µS/cm	3.85 mg/L	1.57 NTU	178.4 mV	22.50 ft	150.00 ml/min
8/17/2021 9:45 AM	15:00	5.53 pH	22.18 °C	162.01 µS/cm	3.70 mg/L	1.24 NTU	177.9 mV	22.60 ft	150.00 ml/min
8/17/2021 9:50 AM	20:00	5.53 pH	22.04 °C	161.76 µS/cm	3.91 mg/L	2.03 NTU	177.3 mV	22.60 ft	150.00 ml/min
8/17/2021 9:55 AM	25:00	5.53 pH	22.17 °C	161.49 µS/cm	3.48 mg/L	1.37 NTU	178.3 mV	22.60 ft	150.00 ml/min
8/17/2021 10:00 AM	30:00	5.53 pH	22.06 °C	160.87 µS/cm	3.47 mg/L	1.33 NTU	149.0 mV	22.60 ft	150.00 ml/min
8/17/2021 10:05 AM	35:00	5.51 pH	22.11 °C	161.89 µS/cm	3.42 mg/L	1.14 NTU	172.3 mV	22.60 ft	150.00 ml/min

Samples

Sample ID:	Description:
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Low-Flow Test Report:

Test Date / Time: 8/18/2021 1:45:29 PM
Project: McIntosh LF 3
Operator Name: Jordan Berisford

Location Name: GWC-1 Well Diameter: 2 in Casing Type: PVC Screen Length: 10 ft Top of Screen: 23.61 ft Total Depth: 33.61 ft Initial Depth to Water: 19.24 ft	Pump Type: Peristaltic Pump Tubing Type: Poly Pump Intake From TOC: 28 ft Estimated Total Volume Pumped: 4.5 liter Flow Cell Volume: 90 ml Final Flow Rate: 150 ml/min Final Draw Down: 2 in	Instrument Used: Aqua TROLL 400 Serial Number: 850751
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Test Notes:
Sunny 84F, sample time 1415, FB-2 here at 1400

Low-Flow Readings:

Date Time	Elapsed Time	pH	Temperature	Specific Conductivity	RDO Concentration	Turbidity	ORP	Depth To Water	Flow
		+/- 0.1	+/- 10	+/- 5 %	+/- 10 %	+/- 10	+/- 100	+/- 0.3	
8/18/2021 1:45 PM	00:00	4.98 pH	30.82 °C	0.00 µS/cm	7.38 mg/L	9.37 NTU	-133.7 mV	19.24 ft	150.00 ml/min
8/18/2021 1:50 PM	05:00	4.98 pH	27.77 °C	53.99 µS/cm	1.30 mg/L	7.93 NTU	176.1 mV	19.40 ft	150.00 ml/min
8/18/2021 1:55 PM	10:00	4.96 pH	25.51 °C	55.00 µS/cm	0.74 mg/L	6.80 NTU	148.3 mV	19.40 ft	150.00 ml/min
8/18/2021 2:00 PM	15:00	4.95 pH	25.79 °C	54.15 µS/cm	0.66 mg/L	6.04 NTU	136.2 mV	19.40 ft	150.00 ml/min
8/18/2021 2:05 PM	20:00	4.95 pH	25.89 °C	53.31 µS/cm	0.74 mg/L	5.37 NTU	128.3 mV	19.40 ft	150.00 ml/min
8/18/2021 2:10 PM	25:00	4.94 pH	24.70 °C	52.96 µS/cm	0.73 mg/L	4.30 NTU	122.5 mV	19.40 ft	150.00 ml/min
8/18/2021 2:15 PM	30:00	4.94 pH	25.62 °C	53.99 µS/cm	0.72 mg/L	4.08 NTU	120.6 mV	19.40 ft	150.00 ml/min

Samples

Sample ID:	Description:
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Low-Flow Test Report:

Test Date / Time: 8/18/2021 11:15:06 AM
Project: McIntosh LF 3
Operator Name: Jordan Berisford

Location Name: GWC-1A Well Diameter: 2 in Casing Type: PVC Screen Length: 10 ft Top of Screen: 37.4 ft Total Depth: 47.4 ft Initial Depth to Water: 20.04 ft	Pump Type: Peristaltic Pump Tubing Type: Poly Pump Intake From TOC: 42 ft Estimated Total Volume Pumped: 5.25 liter Flow Cell Volume: 90 ml Final Flow Rate: 150 ml/min Final Draw Down: 10.3 in	Instrument Used: Aqua TROLL 400 Serial Number: 850751
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Test Notes:
Sunny 86F, sample time 1150

Low-Flow Readings:

Date Time	Elapsed Time	pH	Temperature	Specific Conductivity	RDO Concentration	Turbidity	ORP	Depth To Water	Flow
		+/- 0.1	+/- 10	+/- 5 %	+/- 10 %	+/- 10	+/- 100	+/- 0.3	
8/18/2021 11:15 AM	00:00	8.36 pH	26.20 °C	0.00 µS/cm	7.93 mg/L	2.39 NTU	24.0 mV	20.04 ft	150.00 ml/min
8/18/2021 11:20 AM	05:00	4.59 pH	24.32 °C	100.28 µS/cm	0.96 mg/L	3.02 NTU	181.6 mV	20.70 ft	150.00 ml/min
8/18/2021 11:25 AM	10:00	4.59 pH	24.06 °C	100.30 µS/cm	0.59 mg/L	2.21 NTU	170.0 mV	20.90 ft	150.00 ml/min
8/18/2021 11:30 AM	15:00	4.60 pH	23.81 °C	99.51 µS/cm	0.48 mg/L	1.78 NTU	164.2 mV	20.90 ft	150.00 ml/min
8/18/2021 11:35 AM	20:00	4.60 pH	23.62 °C	99.35 µS/cm	0.43 mg/L	1.26 NTU	158.0 mV	20.90 ft	150.00 ml/min
8/18/2021 11:40 AM	25:00	4.60 pH	23.19 °C	94.32 µS/cm	0.41 mg/L	0.70 NTU	152.1 mV	20.90 ft	150.00 ml/min
8/18/2021 11:45 AM	30:00	4.60 pH	22.85 °C	96.89 µS/cm	0.40 mg/L	0.55 NTU	149.0 mV	20.90 ft	150.00 ml/min
8/18/2021 11:50 AM	35:00	4.59 pH	22.55 °C	96.58 µS/cm	0.39 mg/L	0.44 NTU	147.3 mV	20.90 ft	150.00 ml/min

Samples

Sample ID:	Description:
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Low-Flow Test Report:

Test Date / Time: 8/18/2021 9:23:36 AM
Project: McIntosh LF3
Operator Name: Taylor Goble

Location Name: GWC-2 Well Diameter: 2 in Casing Type: PVC Screen Length: 10 ft Top of Screen: 27.35 ft Total Depth: 37.35 ft Initial Depth to Water: 18.31 ft	Pump Type: Peri Pump Tubing Type: Poly Pump Intake From TOC: 32.35 ft Estimated Total Volume Pumped: 4.5 L Flow Cell Volume: 90 ml Final Flow Rate: 150 ml/min Final Draw Down: 2 in	Instrument Used: Aqua TROLL 400 Serial Number: 843593
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Test Notes:
Sampled at 0953. Partly cloudy 82 degrees

Low-Flow Readings:

Date Time	Elapsed Time	pH	Temperature	Specific Conductivity	RDO Concentration	Turbidity	ORP	Depth To Water	Flow
		+/- 0.1	+/- 1	+/- 5 %	+/- 0.3	+/- 10	+/- 25	+/- 5	
8/18/2021 9:23 AM	00:00	5.13 pH	30.30 °C	89.26 µS/cm	5.50 mg/L	1.82 NTU	171.0 mV	18.40 ft	150.00 ml/min
8/18/2021 9:28 AM	05:00	5.06 pH	25.78 °C	47.56 µS/cm	1.08 mg/L	1.25 NTU	128.8 mV	18.42 ft	150.00 ml/min
8/18/2021 9:33 AM	10:00	5.05 pH	24.80 °C	48.54 µS/cm	0.67 mg/L	1.14 NTU	101.0 mV	18.44 ft	150.00 ml/min
8/18/2021 9:38 AM	15:00	5.02 pH	24.49 °C	48.31 µS/cm	0.53 mg/L	1.22 NTU	90.5 mV	18.47 ft	150.00 ml/min
8/18/2021 9:43 AM	20:00	5.01 pH	24.46 °C	47.93 µS/cm	0.47 mg/L	1.56 NTU	85.4 mV	18.50 ft	150.00 ml/min
8/18/2021 9:48 AM	25:00	4.99 pH	24.33 °C	47.45 µS/cm	0.42 mg/L	1.79 NTU	80.8 mV	18.52 ft	150.00 ml/min
8/18/2021 9:53 AM	30:00	4.98 pH	24.24 °C	47.02 µS/cm	0.40 mg/L	1.60 NTU	78.6 mV	18.55 ft	150.00 ml/min

Samples

Sample ID:	Description:
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Low-Flow Test Report:

Test Date / Time: 8/18/2021 10:35:19 AM
Project: McIntosh LF3
Operator Name: Taylor Goble

Location Name: GWC-4A Well Diameter: 2 in Casing Type: PVC Screen Length: 10 ft Top of Screen: 26.99 ft Total Depth: 36.99 ft Initial Depth to Water: 20.32 ft	Pump Type: Peri Pump Tubing Type: Poly Pump Intake From TOC: 31.99 ft Estimated Total Volume Pumped: 3.5 L Flow Cell Volume: 90 ml Final Flow Rate: 125 ml/min Final Draw Down: 5 in	Instrument Used: Aqua TROLL 400 Serial Number: 843593
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Test Notes:
Sampled at 1105. Mostly cloudy 86 degrees

Low-Flow Readings:

Date Time	Elapsed Time	pH	Temperature	Specific Conductivity	RDO Concentration	Turbidity	ORP	Depth To Water	Flow
		+/- 0.1	+/- 1	+/- 5 %	+/- 0.3	+/- 10	+/- 25	+/- 5	
8/18/2021 10:35 AM	00:00	4.79 pH	28.37 °C	41.06 µS/cm	4.11 mg/L	3.33 NTU	165.7 mV	20.63 ft	100.00 ml/min
8/18/2021 10:40 AM	05:00	4.79 pH	25.58 °C	41.38 µS/cm	0.74 mg/L	2.95 NTU	107.7 mV	20.66 ft	100.00 ml/min
8/18/2021 10:45 AM	10:00	4.80 pH	24.75 °C	40.79 µS/cm	0.38 mg/L	2.54 NTU	92.8 mV	20.70 ft	125.00 ml/min
8/18/2021 10:50 AM	15:00	4.79 pH	24.92 °C	39.12 µS/cm	0.39 mg/L	1.82 NTU	87.1 mV	20.74 ft	125.00 ml/min
8/18/2021 10:55 AM	20:00	4.77 pH	24.61 °C	37.55 µS/cm	0.34 mg/L	1.96 NTU	82.6 mV	20.78 ft	125.00 ml/min
8/18/2021 11:00 AM	25:00	4.77 pH	24.28 °C	39.13 µS/cm	0.31 mg/L	1.70 NTU	79.7 mV	20.81 ft	125.00 ml/min
8/18/2021 11:05 AM	30:00	4.76 pH	24.03 °C	38.02 µS/cm	0.30 mg/L	1.65 NTU	76.7 mV	20.85 ft	125.00 ml/min

Samples

Sample ID:	Description:
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Low-Flow Test Report:

Test Date / Time: 8/18/2021 11:39:52 AM
Project: McIntosh LF3
Operator Name: Taylor Goble

Location Name: GWC-5 Well Diameter: 2 in Casing Type: PVC Screen Length: 10 ft Top of Screen: 20.59 ft Total Depth: 30.59 ft Initial Depth to Water: 20.26 ft	Pump Type: Peri Pump Tubing Type: Poly Pump Intake From TOC: 25.59 ft Estimated Total Volume Pumped: 2 L Flow Cell Volume: 90 ml Final Flow Rate: 55 ml/min Final Draw Down: 2 in	Instrument Used: Aqua TROLL 400 Serial Number: 843593
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Test Notes:
Sampled at 1209. Mostly cloudy 88 degrees

Low-Flow Readings:

Date Time	Elapsed Time	pH	Temperature	Specific Conductivity	RDO Concentration	Turbidity	ORP	Depth To Water	Flow
		+/- 0.1	+/- 1	+/- 5 %	+/- 0.3	+/- 10	+/- 25	+/- 5	
8/18/2021 11:39 AM	00:00	4.92 pH	29.95 °C	232.21 µS/cm	4.62 mg/L	3.92 NTU	153.8 mV	20.35 ft	100.00 ml/min
8/18/2021 11:44 AM	05:00	4.92 pH	26.24 °C	237.94 µS/cm	1.04 mg/L	2.55 NTU	91.4 mV	20.39 ft	70.00 ml/min
8/18/2021 11:49 AM	10:00	4.92 pH	25.76 °C	239.92 µS/cm	0.69 mg/L	1.90 NTU	102.1 mV	20.43 ft	60.00 ml/min
8/18/2021 11:54 AM	15:00	4.91 pH	25.53 °C	240.13 µS/cm	0.55 mg/L	1.10 NTU	69.7 mV	20.46 ft	60.00 ml/min
8/18/2021 11:59 AM	20:00	4.91 pH	25.46 °C	239.96 µS/cm	0.47 mg/L	1.07 NTU	87.7 mV	20.48 ft	55.00 ml/min
8/18/2021 12:04 PM	25:00	4.90 pH	26.04 °C	241.57 µS/cm	0.43 mg/L	0.99 NTU	64.9 mV	20.50 ft	55.00 ml/min
8/18/2021 12:09 PM	30:00	4.90 pH	26.74 °C	241.50 µS/cm	0.40 mg/L	0.91 NTU	85.7 mV	20.52 ft	55.00 ml/min

Samples

Sample ID:	Description:
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Low-Flow Test Report:

Test Date / Time: 8/18/2021 12:59:39 PM
Project: McIntosh LF3
Operator Name: Taylor Goble

Location Name: GWC-5A Well Diameter: 2 in Casing Type: PVC Screen Length: 10 ft Top of Screen: 32.63 ft Total Depth: 42.63 ft Initial Depth to Water: 21.77 ft	Pump Type: Peri Pump Tubing Type: Poly Pump Intake From TOC: 37.63 ft Estimated Total Volume Pumped: 7.85 L Flow Cell Volume: 90 ml Final Flow Rate: 150 ml/min Final Draw Down: 5 in	Instrument Used: Aqua TROLL 400 Serial Number: 843593
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Test Notes:
Sampled at 1352. Mostly cloudy 90 degrees. Dup 2 here.

Low-Flow Readings:

Date Time	Elapsed Time	pH	Temperature	Specific Conductivity	RDO Concentration	Turbidity	ORP	Depth To Water	Flow
		+/- 0.1	+/- 1	+/- 5 %	+/- 0.3	+/- 10	+/- 25	+/- 5	
8/18/2021 12:59 PM	00:00	5.21 pH	28.50 °C	89.16 µS/cm	3.18 mg/L	2.10 NTU	156.9 mV	22.02 ft	150.00 ml/min
8/18/2021 1:04 PM	05:00	5.21 pH	25.29 °C	93.58 µS/cm	0.99 mg/L	1.59 NTU	148.2 mV	22.06 ft	150.00 ml/min
8/18/2021 1:06 PM	06:49	5.20 pH	25.07 °C	93.25 µS/cm	0.91 mg/L	1.53 NTU	145.4 mV	22.09 ft	150.00 ml/min
8/18/2021 1:11 PM	11:49	5.19 pH	24.17 °C	87.66 µS/cm	0.76 mg/L	1.38 NTU	149.4 mV	22.14 ft	150.00 ml/min
8/18/2021 1:16 PM	16:49	5.18 pH	23.85 °C	84.46 µS/cm	0.82 mg/L	1.12 NTU	149.9 mV	22.18 ft	150.00 ml/min
8/18/2021 1:21 PM	21:49	5.17 pH	23.28 °C	83.18 µS/cm	0.80 mg/L	1.06 NTU	151.3 mV	22.21 ft	150.00 ml/min
8/18/2021 1:26 PM	26:49	5.15 pH	23.96 °C	81.29 µS/cm	0.75 mg/L	1.17 NTU	148.8 mV	22.26 ft	150.00 ml/min
8/18/2021 1:31 PM	31:49	5.13 pH	23.99 °C	77.97 µS/cm	0.72 mg/L	0.97 NTU	143.0 mV	22.29 ft	150.00 ml/min
8/18/2021 1:32 PM	32:23	5.16 pH	23.96 °C	78.31 µS/cm	0.73 mg/L	0.97 NTU	124.6 mV	22.29 ft	150.00 ml/min
8/18/2021 1:37 PM	37:23	5.17 pH	23.88 °C	76.86 µS/cm	0.71 mg/L	0.88 NTU	116.5 mV	22.30 ft	150.00 ml/min
8/18/2021 1:42 PM	42:23	5.16 pH	23.72 °C	73.27 µS/cm	0.67 mg/L	0.82 NTU	47.9 mV	22.30 ft	150.00 ml/min
8/18/2021 1:47 PM	47:23	5.17 pH	24.06 °C	71.79 µS/cm	0.65 mg/L	0.99 NTU	38.0 mV	22.30 ft	150.00 ml/min
8/18/2021 1:52 PM	52:23	5.17 pH	23.84 °C	73.41 µS/cm	0.64 mg/L	1.15 NTU	27.1 mV	22.30 ft	150.00 ml/min

Samples

Low-Flow Test Report:

Test Date / Time: 8/18/2021 10:05:10 AM
Project: McIntosh LF 3
Operator Name: Jordan Berisford

Location Name: GWC-6 Well Diameter: 2 in Casing Type: PVC Screen Length: 10 ft Top of Screen: 35.12 ft Total Depth: 45.12 ft Initial Depth to Water: 20.81 ft	Pump Type: Peristaltic Pump Tubing Type: Poly Pump Intake From TOC: 40 ft Estimated Total Volume Pumped: 3 liter Flow Cell Volume: 90 ml Final Flow Rate: 75 ml/min Final Draw Down: 58.68 in	Instrument Used: Aqua TROLL 400 Serial Number: 850751
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Test Notes:
Sunny 86F, sample time -1045

Low-Flow Readings:

Date Time	Elapsed Time	pH	Temperature	Specific Conductivity	RDO Concentration	Turbidity	ORP	Depth To Water	Flow
		+/- 0.1	+/- 10	+/- 5 %	+/- 10 %	+/- 10	+/- 100	+/- 0.3	
8/18/2021 10:05 AM	00:00	7.65 pH	25.04 °C	0.00 µS/cm	7.26 mg/L	37.00 NTU	29.1 mV	20.81 ft	75.00 ml/min
8/18/2021 10:10 AM	05:00	5.01 pH	23.83 °C	42.92 µS/cm	2.51 mg/L	31.00 NTU	150.2 mV	21.60 ft	75.00 ml/min
8/18/2021 10:15 AM	10:00	5.03 pH	24.46 °C	42.84 µS/cm	1.57 mg/L	7.79 NTU	134.4 mV	22.30 ft	75.00 ml/min
8/18/2021 10:20 AM	15:00	5.02 pH	24.24 °C	42.98 µS/cm	1.31 mg/L	6.21 NTU	126.0 mV	22.80 ft	75.00 ml/min
8/18/2021 10:25 AM	20:00	5.02 pH	24.27 °C	42.87 µS/cm	1.25 mg/L	4.87 NTU	122.2 mV	23.40 ft	75.00 ml/min
8/18/2021 10:30 AM	25:00	5.02 pH	24.24 °C	42.72 µS/cm	1.21 mg/L	2.82 NTU	119.7 mV	24.10 ft	75.00 ml/min
8/18/2021 10:35 AM	30:00	5.02 pH	24.34 °C	42.96 µS/cm	1.19 mg/L	3.11 NTU	118.7 mV	24.60 ft	75.00 ml/min
8/18/2021 10:40 AM	35:00	5.02 pH	24.24 °C	42.94 µS/cm	1.19 mg/L	2.96 NTU	117.3 mV	25.10 ft	75.00 ml/min
8/18/2021 10:45 AM	40:00	5.03 pH	24.41 °C	43.17 µS/cm	1.22 mg/L	3.45 NTU	116.1 mV	25.70 ft	75.00 ml/min

Samples

Sample ID:	Description:
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Low-Flow Test Report:

Test Date / Time: 8/18/2021 9:15:05 AM
Project: McIntosh LF 3
Operator Name: Jordan Berisford

Location Name: GWC-6A Well Diameter: 2 in Casing Type: PVC Screen Length: 10 ft Top of Screen: 32.48 ft Total Depth: 42.48 ft Initial Depth to Water: 21.96 ft	Pump Type: Peristaltic Pump Tubing Type: Poly Pump Intake From TOC: 38 ft Estimated Total Volume Pumped: 6 liter Flow Cell Volume: 90 ml Final Flow Rate: 200 ml/min Final Draw Down: 14.8 in	Instrument Used: Aqua TROLL 400 Serial Number: 850751
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Test Notes:
Sunny 86F, sample time 0945, DUP-1 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 %	+/- 10	+/- 100	+/- 0.3	
8/18/2021 9:15 AM	00:00	5.27 pH	22.94 °C	82.71 µS/cm	0.69 mg/L	2.64 NTU	168.3 mV	21.96 ft	200.00 ml/min
8/18/2021 9:20 AM	05:00	5.26 pH	22.02 °C	84.49 µS/cm	0.50 mg/L	2.46 NTU	167.6 mV	22.70 ft	200.00 ml/min
8/18/2021 9:25 AM	10:00	5.25 pH	21.92 °C	82.19 µS/cm	0.43 mg/L	3.11 NTU	131.5 mV	23.00 ft	200.00 ml/min
8/18/2021 9:30 AM	15:00	5.25 pH	21.97 °C	82.31 µS/cm	0.39 mg/L	1.39 NTU	121.3 mV	23.10 ft	200.00 ml/min
8/18/2021 9:35 AM	20:00	5.26 pH	21.94 °C	81.33 µS/cm	0.36 mg/L	1.37 NTU	114.5 mV	23.20 ft	200.00 ml/min
8/18/2021 9:40 AM	25:00	5.26 pH	21.85 °C	80.84 µS/cm	0.34 mg/L	1.42 NTU	109.9 mV	23.20 ft	200.00 ml/min
8/18/2021 9:45 AM	30:00	5.26 pH	21.90 °C	79.96 µS/cm	0.33 mg/L	1.27 NTU	106.7 mV	23.20 ft	200.00 ml/min

Samples

Sample ID:	Description:
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Daily Instrument Calibration Log

SITE: Plant McIntosh

TECHNICIAN: T. Goble

WATER LEVEL: Solinst

WATER LEVEL S/N: 378591

INSTRUMENT S/N: 843593

INSTRUMENT TYPE: AquaTroll

CAL. SOLUTIONS:

ID: <u>PH 4.49m</u>	LOT #: <u>21070193</u>	EXP. DATE: <u>8/22</u>
ID: <u>PH 7</u>	LOT #: <u>21010066</u>	EXP. DATE: <u>8/22</u>
ID: <u>PH 10</u>	LOT #: <u>21080189</u>	EXP. DATE: <u>6/22</u>
ID: <u>ORP</u>	LOT #: <u>21140141</u>	EXP. DATE: <u>8/22</u>
ID: _____	LOT #: _____	EXP. DATE: _____
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: 8-17-21

RDO: 100% sat. = 98.79% Midday pH check

PH: 4.00 = 4.03 7.00 = 7.02 10.00 = 10.00 7.0 = 7.05

PH Recal (if needed): 4.00 = _____ 7.00 = _____ 10.00 = _____ 7.0 = _____ post recal check

CONDUCTIVITY: 4490 = 5018

ORP (mV) 228 = 223.8

Calibration Date: 8-18-21

RDO: 100% sat. = 98.77 Midday pH check

PH: 4.00 = 4.02 7.00 = 7.00 10.00 = 9.99 7.0 = 7.07

PH Recal (if needed): 4.00 = _____ 7.00 = _____ 10.00 = _____ 7.0 = _____ post recal check

CONDUCTIVITY: 1413 = 1460

ORP (mV) 226 = 221.6

Calibration Date: 8-19-21

RDO: 100% sat. = 102.60 Midday pH check

PH: 4.00 = 4.06 7.00 = 7.01 10.00 = 9.96 7.0 = 7.05

PH Recal (if needed): 4.00 = _____ 7.00 = _____ 10.00 = _____ 7.0 = _____ post recal check

CONDUCTIVITY: 1413 = 1399

ORP (mV) 228 = 224.1

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: _____ T. Gable

INSTRUMENT S/N: 16040C049743
INSTRUMENT TYPE: Hach 2100Q
CAL. SOLUTION: 0 NTU - LOT # New DI EXP. DATE: ✓
10 NTU - LOT # A1013 EXP. DATE: Apr-22
20 NTU - LOT # 2694401 EXP. DATE: Nov-21
A0231

Calibration Date: 8-17-21

Calibration Solution	Instrument Reading	
0.0	0.72	NTU
10.0	10.7	NTU
20.0	20.4	NTU

100 = 104
800 = 807

Calibration Date: 8-18-21

Calibration Solution	Instrument Reading	
0.0	0.37	NTU
10.0	10.6	NTU
20.0	20.2	NTU

100 = 101
800 = 808

Calibration Date: 8-19-21

Calibration Solution	Instrument Reading	
0.0	0.31	NTU
10.0	10.4	NTU
20.0	20.3	NTU

100 = 102
800 = 806

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: Wesley McIntosh

TECHNICIAN: J. Beers

WATER LEVEL: 506ft

WATER LEVEL S/N: 26730f

INSTRUMENT S/N: 850751

INSTRUMENT TYPE: AquaTroll

CAL. SOLUTIONS:

ID: <u>pH 4</u>	LOT #: <u>160680</u>	EXP. DATE: <u>4/23</u>	
ID: <u>pH 7</u>	LOT #: <u>21070066</u>	EXP. DATE: <u>8/22</u>	
ID: <u>pH 7.0</u>	LOT #: <u>21080182</u>	EXP. DATE: <u>6/22</u>	
ID: <u>ORP</u>	LOT #: <u>21140141</u>	EXP. DATE: <u>8/22</u>	
ID: <u>cond</u>	LOT #: <u>160949</u>	EXP. DATE: <u>4/22</u>	<u>Midday pH check</u>
ID:	LOT #:	EXP. DATE:	<u>Must be less than .10</u>
ID:	LOT #:	EXP. DATE:	<u>(6.90-7.10 range)</u>

Recalibrate if not within range

Calibration Date: 8/17/21

RDO: 100% sat. = 99.77 Midday pH check

PH: 4.00 = 4.01 7.00 = 7.15 10.00 = 9.93 7.0 = 7.88

PH Recal (if needed): 4.00 = 7.00 = 10.00 = 7.0 = post recal check

CONDUCTIVITY: 1413 = 1553

ORP (mV) 228 = 221.5

Calibration Date: 8/18/21

RDO: 100% sat. = 100.47 Midday pH check

PH: 4.00 = 4.04 7.00 = 7.02 10.00 = 10.04 7.0 = 7.07

PH Recal (if needed): 4.00 = 7.00 = 10.00 = 7.0 = post recal check

CONDUCTIVITY: 1413 = 1373

ORP (mV) 228 = 223.3

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) =

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: Bertrand

INSTRUMENT S/N: 12050C01-7749
INSTRUMENT TYPE: Hach 2100Q
CAL. SOLUTION: 0 NTU - LOT # N/A EXP. DATE: DT 1420
10 NTU - LOT # 41013 EXP. DATE: Apr-22
20 NTU - LOT # A 0231 EXP. DATE: Nov-21

Calibration Date: 8/17/21

Calibration Solution	Instrument Reading	
0.0	<u>0.06</u>	NTU
10.0	<u>9.75</u>	NTU
20.0	<u>19.5</u>	NTU

Calibration Date: 8/18/21

Calibration Solution	Instrument Reading	
0.0	<u>0.07</u>	NTU
10.0	<u>9.33</u>	NTU
20.0	<u>20.0</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

Facility Name: Plant McIntosh LF-3

Staff: T. Goble

Date: 8/26/2021

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".

Facility Name: Plant McIntosh LF-3

Staff: T. Goble

Date: 8/26/2021

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".

Facility Name: Plant McIntosh LF-3

Staff: T. Goble

Date: 8/26/2021

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".

Facility Name: Plant McIntosh LF-3

Staff: T. Goble

Date: 8/26/2021

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".

Facility Name: Plant McIntosh LF-3

Staff: T. Goble

Date: 8/26/2021

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:

GWA-1B - Vent hole installed. Well label installed.

GWC-2 - Well label reinstalled.

GWC-1A - Well label installed.

GWC-4A Weephole reinstalled

NOTE: Form Derived from "Georgia EPD's Groundwater Monitoring Well Integrity Form".

Facility Name: Plant McIntosh LF-3

Staff: T. Goble

Date: 8/26/2021

1 - Location/Identification

		GWC-5	GWC-5A	GWC-6	GWC-6A	PZ-1	PZ-2	PZ-3
a	Is the well visible and accessible?	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
c	Does the well require protection from traffic?	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

NOTE: Form Derived from "Georgia EPD's Groundwater Monitoring Well Integrity Form".

Facility Name: Plant McIntosh LF-3

Staff: T. Goble

Date: 8/26/2021

2 - Protective Outer Casing

		GWC-5	GWC-5A	GWC-6	GWC-6A	PZ-1	PZ-2	PZ-3
a	Is the protective casing free from apparent damage?	Yes	Yes	Yes	Yes	Yes	Yes	Yes
b	Is the casing free of degradation or deterioration?	Yes	Yes	Yes	Yes	Yes	Yes	Yes
c	Does the casing have a functioning weep hole?	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
e	Is the well locked, and is the lock in good working condition?	Yes	Yes	Yes	Yes	Yes	Yes	Yes

NOTE: Form Derived from "Georgia EPD's Groundwater Monitoring Well Integrity Form".

Facility Name: Plant McIntosh LF-3

Staff: T. Goble

Date: 8/26/2021

3 - Surface Pad

		GWC-5	GWC-5A	GWC-6	GWC-6A	PZ-1	PZ-2	PZ-3
a	Is the well pad in good condition? (Not cracked or broken)	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
c	Is the well pad in complete contact with the protective casing?	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
e	Is the pad surface clean? (Not covered by soil or debris)	Yes	Yes	Yes	Yes	Yes	Yes	Yes

NOTE: Form Derived from "Georgia EPD's Groundwater Monitoring Well Integrity Form".

Facility Name: Plant McIntosh LF-3

Staff: T. Goble

Date: 8/26/2021

4 - Internal Well Casing

		GWC-5	GWC-5A	GWC-6	GWC-6A	PZ-1	PZ-2	PZ-3
a	Does the well cap prevent entry of foreign material into the well?	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
c	Does the well have a venting hole near the top of casing?	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
e	Is the depth of the well consistent with the original well log?	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

NOTE: Form Derived from "Georgia EPD's Groundwater Monitoring Well Integrity Form".

Facility Name: Plant McIntosh LF-3

Staff: T. Goble

Date: 8/26/2021

5 - Sampling (Groundwater Monitoring Wells Only):

		GWC-5	GWC-5A	GWC-6	GWC-6A	PZ-1	PZ-2	PZ-3
a	Does the well recharge adequately when purged?	Yes	Yes	Yes	Yes	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
c	Does the well require redevelopment due to slow recharge or turbidity > 10 NTUs?	No	No	No	No	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
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

7 - Corrective actions completed and Notes:

GWC-5A - Well label installed.

GWC-6A - Weep hole installed. Well label installed.

NOTE: Form Derived from "Georgia EPD's Groundwater Monitoring Well Integrity Form".

ANALYTICAL REPORT

Eurofins TestAmerica, Pittsburgh
301 Alpha Drive
RIDC Park
Pittsburgh, PA 15238
Tel: (412)963-7058

Laboratory Job ID: 180-129094-1

Client Project/Site: Plant McIntosh Ash Landfill #3

For:

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

Attn: Kristen N Jurinko



Authorized for release by:
11/5/2021 6:17:44 PM

Shali Brown, Project Manager II
(615)301-5031
Shali.Brown@Eurofinset.com

LINKS

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results through

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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.

PA Lab ID: 02-00416

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Case Narrative

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

Job ID: 180-129094-1

Job ID: 180-129094-1

Laboratory: Eurofins TestAmerica, Pittsburgh

Narrative

Job Narrative
180-129094-1

Comments

No additional comments.

Receipt

The samples were received on 10/27/2021 4:00 PM. 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 4.4° C.

Metals

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

Field Service / Mobile Lab

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

Definitions/Glossary

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

Job ID: 180-129094-1

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

Accreditation/Certification Summary

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

Job ID: 180-129094-1

Laboratory: Eurofins TestAmerica, Pittsburgh

All accreditations/certifications held by this laboratory are listed. Not all accreditations/certifications are applicable to this report.

Authority	Program	Identification Number	Expiration Date
Arkansas DEQ	State	19-033-0	06-27-21 *
California	State	2891	04-30-22
Connecticut	State	PH-0688	09-30-22
Florida	NELAP	E871008	06-30-22
Georgia	State	PA 02-00416	04-30-22
Illinois	NELAP	004375	06-30-22
Kansas	NELAP	E-10350	01-31-22
Kentucky (UST)	State	162013	04-30-22
Kentucky (WW)	State	KY98043	12-31-21
Louisiana	NELAP	04041	06-30-22
Maine	State	PA00164	03-06-22
Minnesota	NELAP	042-999-482	12-31-21
Nevada	State	PA00164	08-31-22
New Hampshire	NELAP	2030	04-05-22
New Jersey	NELAP	PA005	06-30-22
New York	NELAP	11182	04-01-22
North Carolina (WW/SW)	State	434	12-31-21
North Dakota	State	R-227	04-30-22
Oregon	NELAP	PA-2151	02-06-22
Pennsylvania	NELAP	02-00416	04-30-22
Rhode Island	State	LAO00362	12-31-21
South Carolina	State	89014	04-30-22
Texas	NELAP	T104704528	03-31-22
USDA	Federal	P-Soil-01	06-26-22
USDA	US Federal Programs	P330-16-00211	06-26-22
Utah	NELAP	PA001462019-8	05-31-22
Virginia	NELAP	10043	09-15-22
West Virginia DEP	State	142	01-31-22
Wisconsin	State	998027800	08-31-22

* Accreditation/Certification renewal pending - accreditation/certification considered valid.

Eurofins TestAmerica, Pittsburgh

Sample Summary

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

Job ID: 180-129094-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
180-129094-1	GWC-1	Water	10/25/21 16:54	10/27/21 16:00
180-129094-2	GWC-6	Water	10/25/21 15:40	10/27/21 16:00

- 1
- 2
- 3
- 4
- 5
- 6
- 7
- 8
- 9
- 10
- 11
- 12
- 13

Method Summary

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

Job ID: 180-129094-1

Method	Method Description	Protocol	Laboratory
EPA 6020B	Metals (ICP/MS)	SW846	TAL PIT
Field Sampling	Field Sampling	EPA	TAL PIT
3005A	Preparation, Total Recoverable or Dissolved Metals	SW846	TAL PIT

Protocol References:

EPA = US Environmental Protection Agency

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

Laboratory References:

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

Lab Chronicle

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

Job ID: 180-129094-1

Client Sample ID: GWC-1

Date Collected: 10/25/21 16:54

Date Received: 10/27/21 16:00

Lab Sample ID: 180-129094-1

Matrix: Water

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	50 mL	377248	11/02/21 08:30	KFS	TAL PIT
Total Recoverable	Analysis	EPA 6020B		1			377542	11/03/21 18:00	RSK	TAL PIT
		Instrument ID: A								
Total/NA	Analysis	Field Sampling		1			377481	10/25/21 16:54	FDS	TAL PIT
		Instrument ID: NOEQUIP								

Client Sample ID: GWC-6

Date Collected: 10/25/21 15:40

Date Received: 10/27/21 16:00

Lab Sample ID: 180-129094-2

Matrix: Water

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	50 mL	377248	11/02/21 08:30	KFS	TAL PIT
Total Recoverable	Analysis	EPA 6020B		1			377542	11/03/21 18:04	RSK	TAL PIT
		Instrument ID: A								
Total/NA	Analysis	Field Sampling		1			377481	10/25/21 15:40	FDS	TAL PIT
		Instrument ID: NOEQUIP								

Laboratory References:

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

Analyst References:

Lab: TAL PIT

Batch Type: Prep

KFS = Kelly Shannon

Batch Type: Analysis

FDS = Sampler Field

RSK = Robert Kurtz

Client Sample Results

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

Job ID: 180-129094-1

Client Sample ID: GWC-1

Date Collected: 10/25/21 16:54

Date Received: 10/27/21 16:00

Lab Sample ID: 180-129094-1

Matrix: Water

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Zinc	0.014		0.0050	0.0032	mg/L		11/02/21 08:30	11/03/21 18:00	1

Method: Field Sampling - Field Sampling

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
pH	4.82				SU			10/25/21 16:54	1

Client Sample Results

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

Job ID: 180-129094-1

Client Sample ID: GWC-6

Date Collected: 10/25/21 15:40

Date Received: 10/27/21 16:00

Lab Sample ID: 180-129094-2

Matrix: Water

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Zinc	0.013		0.0050	0.0032	mg/L		11/02/21 08:30	11/03/21 18:04	1

Method: Field Sampling - Field Sampling

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
pH	4.89				SU			10/25/21 15:40	1

QC Sample Results

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

Job ID: 180-129094-1

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

Lab Sample ID: MB 180-377248/1-A

Matrix: Water

Analysis Batch: 377542

Client Sample ID: Method Blank

Prep Type: Total Recoverable

Prep Batch: 377248

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Zinc	<0.0032		0.0050	0.0032	mg/L		11/02/21 08:30	11/03/21 16:22	1

Lab Sample ID: LCS 180-377248/2-A

Matrix: Water

Analysis Batch: 377542

Client Sample ID: Lab Control Sample

Prep Type: Total Recoverable

Prep Batch: 377248

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Zinc	0.250	0.248		mg/L		99	80 - 120

QC Association Summary

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

Job ID: 180-129094-1

Metals

Prep Batch: 377248

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-129094-1	GWC-1	Total Recoverable	Water	3005A	
180-129094-2	GWC-6	Total Recoverable	Water	3005A	
MB 180-377248/1-A	Method Blank	Total Recoverable	Water	3005A	
LCS 180-377248/2-A	Lab Control Sample	Total Recoverable	Water	3005A	

Analysis Batch: 377542

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-129094-1	GWC-1	Total Recoverable	Water	EPA 6020B	377248
180-129094-2	GWC-6	Total Recoverable	Water	EPA 6020B	377248
MB 180-377248/1-A	Method Blank	Total Recoverable	Water	EPA 6020B	377248
LCS 180-377248/2-A	Lab Control Sample	Total Recoverable	Water	EPA 6020B	377248

Field Service / Mobile Lab

Analysis Batch: 377481

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-129094-1	GWC-1	Total/NA	Water	Field Sampling	
180-129094-2	GWC-6	Total/NA	Water	Field Sampling	

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Login Sample Receipt Checklist

Client: Southern Company

Job Number: 180-129094-1

Login Number: 129094

List Source: Eurofins TestAmerica, Pittsburgh

List Number: 1

Creator: Watson, Debbie

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 $<6\text{mm}$ (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

Verification Sampling Event

October 2021

Georgia Power Company – McIntosh Landfill 3

Quality Control Review of Analytical Data – October 2021

This narrative presents results of the Quality Control (QC) data review performed on analytical data submitted by Eurofins TestAmerica, Pittsburgh for groundwater samples collected at McIntosh LF3 October 25, 2021. 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 parameter, QC samples, sampling date, and laboratory sample delivery group (SDG) designation is summarized in Table 1 of this Appendix.

In accordance with groundwater monitoring and corrective action procedures discussed in Title 40 CFR, Subpart D – Standards for the Disposal of Coal Combustion Residuals in Landfills and Surface Impoundments, the verification samples were analyzed for an assessment monitoring constituent listed in 40 CFR, Part 257, Appendix IV. The test method included Inductively Coupled Plasma – Mass Spectrometry (USEPA Method 6020B).

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 (COCs) were reviewed. Where there was a discrepancy between the QC criteria in the guidelines and the QC criterion established in the analytical methodology, method-specific criteria or professional judgment were used.

DATA QUALITY OBJECTIVES

Laboratory Precision: Laboratory goals for precision were met.

Field Precision: Field goals for precision were met.

Accuracy: Laboratory goals for accuracy were met.

Detection Limits: Project goals for detection limits were met.

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

Holding Times: Holding time requirements were met.

QUALIFICATIONS

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

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

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

The data generated as part of this resampling event met the QC criteria established in the analytical method and data validation guidelines. No sample qualifications were required.

Atlantic Coast Consulting, Inc. reviewed the laboratory data from McIntosh LF3 verification sampling conducted October 25, 2021 in accordance with the analytical method, the laboratory-specified QC criteria, and the guidelines. As described above, the results were acceptable for project use.

REFERENCES

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

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

TABLE 1

Georgia Power Company – McIntosh LF3

Sample Summary Table – October 2021

						Analyses
SDG	Field Identification	Collection Date	Lab Identification	Matrix	QC Samples	Metals (6020B)
129094	GWC-1	10/25/2021	180-129094-1	GW		X
129094	GWC-6	10/25/2021	180-129094-2	GW		X

Abbreviations:

GW – Groundwater

QC – Quality Control

Low-Flow Test Report:

Test Date / Time: 10/25/2021 4:24:46 PM
Project: Plant McIntosh LF3
Operator Name: Taylor Goble

Location Name: GWC-1 Well Diameter: 2 in Casing Type: PVC Screen Length: 10 ft Top of Screen: 45.81 ft Total Depth: 55.81 ft Initial Depth to Water: 18.01 ft	Pump Type: Peri Pump Tubing Type: Poly Pump Intake From TOC: 50 ft Estimated Total Volume Pumped: 6000 ml Flow Cell Volume: 90 ml Final Flow Rate: 200 ml/min Final Draw Down: 0.1 ft	Instrument Used: Aqua TROLL 400 Serial Number: 714293
--	--	--

Test Notes:
Sampled at 1654. Mostly cloudy 76 degrees

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	
10/25/2021 4:24 PM	00:00	4.81 pH	23.12 °C	45.58 µS/cm	1.69 mg/L	3.36 NTU	173.7 mV	18.06 ft	200.00 ml/min
10/25/2021 4:29 PM	05:00	4.83 pH	22.00 °C	49.61 µS/cm	0.78 mg/L	2.79 NTU	168.7 mV	18.09 ft	200.00 ml/min
10/25/2021 4:34 PM	10:00	4.82 pH	21.64 °C	48.00 µS/cm	0.71 mg/L	2.47 NTU	164.9 mV	18.11 ft	200.00 ml/min
10/25/2021 4:39 PM	15:00	4.81 pH	21.48 °C	46.97 µS/cm	0.66 mg/L	2.22 NTU	162.1 mV	18.11 ft	200.00 ml/min
10/25/2021 4:44 PM	20:00	4.81 pH	21.56 °C	46.70 µS/cm	0.61 mg/L	2.19 NTU	160.2 mV	18.11 ft	200.00 ml/min
10/25/2021 4:49 PM	25:00	4.83 pH	21.59 °C	46.77 µS/cm	0.59 mg/L	1.88 NTU	158.7 mV	18.11 ft	200.00 ml/min
10/25/2021 4:54 PM	30:00	4.82 pH	21.43 °C	46.18 µS/cm	0.57 mg/L	1.95 NTU	157.1 mV	18.11 ft	200.00 ml/min

Samples

Sample ID:	Description:
------------	--------------

Low-Flow Test Report:

Test Date / Time: 10/25/2021 3:09:35 PM
Project: Plant McIntosh LF3
Operator Name: Taylor Goble

Location Name: GWC-6 Well Diameter: 2 in Casing Type: PVC Screen Length: 10 ft Top of Screen: 35.12 ft Total Depth: 45.12 ft Initial Depth to Water: 19.69 ft	Pump Type: Peri Pump Tubing Type: Poly Pump Intake From TOC: 40 ft Estimated Total Volume Pumped: 1543.333 ml Flow Cell Volume: 90 ml Final Flow Rate: 50 ml/min Final Draw Down: 34 in	Instrument Used: Aqua TROLL 400 Serial Number: 714293
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Test Notes:
Sampled at 1540. Cloudy 76 degrees

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	
10/25/2021 3:09 PM	00:00	6.13 pH	24.06 °C	164.44 µS/cm	6.42 mg/L	7.81 NTU	127.7 mV	20.03 ft	50.00 ml/min
10/25/2021 3:10 PM	00:28	5.46 pH	23.71 °C	110.55 µS/cm	4.56 mg/L	7.81 NTU	124.5 mV	20.03 ft	50.00 ml/min
10/25/2021 3:10 PM	00:44	5.23 pH	23.52 °C	85.72 µS/cm	3.82 mg/L	7.81 NTU	120.4 mV	20.06 ft	50.00 ml/min
10/25/2021 3:15 PM	05:44	4.87 pH	22.09 °C	44.03 µS/cm	0.94 mg/L	6.76 NTU	112.5 mV	20.61 ft	50.00 ml/min
10/25/2021 3:20 PM	10:52	4.86 pH	21.91 °C	41.26 µS/cm	0.76 mg/L	5.50 NTU	121.7 mV	20.95 ft	50.00 ml/min
10/25/2021 3:25 PM	15:52	4.87 pH	21.90 °C	39.43 µS/cm	0.66 mg/L	5.15 NTU	129.2 mV	21.27 ft	50.00 ml/min
10/25/2021 3:30 PM	20:52	4.88 pH	21.84 °C	39.32 µS/cm	0.62 mg/L	4.53 NTU	145.1 mV	21.62 ft	50.00 ml/min
10/25/2021 3:35 PM	25:52	4.88 pH	21.89 °C	38.70 µS/cm	0.59 mg/L	4.25 NTU	148.0 mV	22.03 ft	50.00 ml/min
10/25/2021 3:40 PM	30:52	4.89 pH	21.85 °C	38.73 µS/cm	0.58 mg/L	4.11 NTU	153.3 mV	22.46 ft	50.00 ml/min

Samples

Sample ID:	Description:
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Daily Instrument Calibration Log

SITE:
TECHNICIAN:

Plant McIntosh
T. Goble

INSTRUMENT S/N:

17120C063767

INSTRUMENT TYPE: Hach 2100 Q Turbidity Meter

CAL. SOLUTION:

0 NTU - LOT #	EXP. DATE: New DI
10 NTU - LOT # AC139	EXP. DATE: Nov 22
20 NTU - LOT # AC139	EXP. DATE: Nov 22
NTU - LOT #	EXP. DATE:
NTU - LOT #	EXP. DATE:

Calibration Date:

10-25-21

Calibration Solution	Instrument Reading	
0.0	0.7	NTU
10.0	10.3	NTU
20.0	20.6	NTU
100	102	NTU
400	404	NTU

Calibration Date:

10-26-21

Calibration Solution	Instrument Reading	
0.0	0.6	NTU
10.0	10.2	NTU
20.0	20.1	NTU
100	101	NTU
400	403	NTU

Calibration Date:

Calibration Solution	Instrument Reading	
0.0		NTU
10.0		NTU
20.0		NTU
		NTU
		NTU

Calibration Date:

Calibration Solution	Instrument Reading	
0.0		NTU
10.0		NTU
20.0		NTU
		NTU
		NTU

Calibration Date:

Calibration Solution	Instrument Reading	
0.0		NTU
10.0		NTU
20.0		NTU
		NTU
		NTU



Daily Instrument Calibration Log

SITE: Plant McIntosh
TECHNICIAN: T. Goble

WATER LEVEL: Solinst
WATER LEVEL S/N: 236966

INSTRUMENT S/N: 714293
INSTRUMENT TYPE: Smartroll
CAL. SOLUTION/S:

ID: <u>pH 4</u>	LOT #: <u>0GE1407</u>	EXP. DATE: <u>9/22</u>
ID: <u>pH 7</u>	LOT #: <u>2GF007</u>	EXP. DATE: <u>6/23</u>
ID: <u>pH 10</u>	LOT #: <u>2GF458</u>	EXP. DATE: <u>6/23</u>
ID: <u>Cond</u>	LOT #: <u>2GD949</u>	EXP. DATE: <u>4/22</u>
ID: <u>ORP</u>	LOT #: <u>2GA114</u>	EXP. DATE: <u>11/21</u>
ID: _____	LOT #: _____	EXP. DATE: _____
ID: _____	LOT #: _____	EXP. DATE: _____

Calibration Date: 10-25-21

RDO: 100% sat. = 100.49

PH: 4.00 = 4.03 7.00 = 6.62 10.00 = 9.97

CONDUCTIVITY: 1413 = 1524

ORP (mV) 240 = 236.5

Calibration Date: 10-26-21

RDO: 100% sat. = 99.66

PH: 4.00 = 4.05 7.00 = 7.07 10.00 = 10.05

CONDUCTIVITY: 1413 = 1472

ORP (mV) 237.1

Calibration Date: _____

RDO: 100% sat. = _____

PH: 4.00 = _____ 7.00 = _____ 10.00 = _____

CONDUCTIVITY: _____

ORP (mV) _____

Calibration Date: _____

RDO: 100% sat. = _____

PH: 4.00 = _____ 7.00 = _____ 10.00 = _____

CONDUCTIVITY: _____

ORP (mV) _____

Calibration Date: _____

RDO: 100% sat. = _____

PH: 4.00 = _____ 7.00 = _____ 10.00 = _____

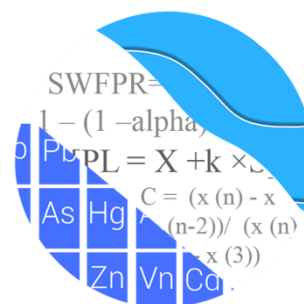
CONDUCTIVITY: _____

ORP (mV) _____

APPENDIX B

STATISTICAL ANALYSIS REPORT

GROUNDWATER STATS CONSULTING



February 28, 2022

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 2021 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 2021 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 began for the CCR program in 2016, and sampling for the state constituents in accordance with the Georgia EPD's Solid Waste Permit began for some wells 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 have only been sampled twice for Appendix I and III constituents. Therefore, data from downgradient wells GWC-1A, GWC-5A, and GWC-6A are plotted on the time series graphs and box plots, and will be statistically analyzed when a minimum of 8 samples has been collected. Since upgradient well GWA-1B has a minimum of two samples, data from this well is 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 this 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 background screening in 2019 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 demonstrate 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 described 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 Background Screening – All Constituents

Outlier Analysis

The original background screening for the CCR and Georgia EPD state program 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 at this time (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 2021

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 August 2021 (Figure D). Interwell prediction limits pool upgradient well data to establish a background limit for an individual constituent. The August 2021 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 2021

Interwell Prediction Limits

Interwell prediction limits, combined with a 1-of-2 resample plan, were constructed using all available data from upgradient wells through August 2021 (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
- Cobalt: GWC-5
- Zinc: GWC-1 and GWC-6

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
- Cobalt: GWC-5

Decreasing

- Barium: GWA-1A (upgradient)
- Cobalt: GWA-1A, GWA-2B, GWA-3A, GWA-4, and GWA-5 (all upgradient)
- Zinc: GWA-3A, GWA-4, GWA-5 (all upgradient), and GWC-6

Typically, when changes in concentrations are present upgradient of the facility, it is an indication of naturally changing groundwater quality. Note that the statistically significant decreasing trend for cobalt in upgradient well GWA-1A indicates a zero slope which represents only the median slope of all possible pairwise slopes within this record. A summary of the trend test results follows this letter.

Resample Reports – October 2021

Additional data were collected in October 2021 for zinc and pH in downgradient wells GWC-1 and GWC-6. Interwell prediction limits were constructed for zinc and pH, using pooled upgradient well data through August 2021, to compare the October 2021 sample (Figures G and H, respectively). No exceedances were identified; therefore, no further action is necessary.

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,



Abdul Diane
Groundwater Analyst



Andrew Collins
Project Manager

100% Non-Detects: Appendix I Downgradient

Analysis Run 10/11/2021 12:13 AM View: Appendix I

Plant McIntosh Client: Southern Company Data: McIntosh LF 3 CCR

Copper (mg/L)
GWC-4A

Lead (mg/L)
GWC-4A

Appendix I Interwell Prediction Limits - Significant Results

Plant McIntosh Client: Southern Company Data: McIntosh LF 3 CCR Printed 2/17/2022, 5:39 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-5	0.33	n/a	8/18/2021	0.49	Yes	225	n/a	n/a	0	n/a	n/a	0.0000492	NP Inter (normality) 1 of 2
Cobalt (mg/L)	GWC-5	0.0072	n/a	8/18/2021	0.013	Yes	224	n/a	n/a	54.46	n/a	n/a	0.0000492	NP Inter (NDs) 1 of 2
Zinc (mg/L)	GWC-1	0.074	n/a	8/18/2021	0.11	Yes	208	n/a	n/a	26.92	n/a	n/a	0.0000492	NP Inter (normality) 1 of 2
Zinc (mg/L)	GWC-6	0.074	n/a	8/18/2021	0.12	Yes	208	n/a	n/a	26.92	n/a	n/a	0.0000492	NP Inter (normality) 1 of 2

Appendix I Interwell Prediction Limits - All Results

Plant McIntosh Client: Southern Company Data: McIntosh LF 3 CCR Printed 2/17/2022, 5:39 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	8/18/2021	0.029	No	225	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	8/18/2021	0.062	No	225	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	8/18/2021	0.032	No	225	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	8/18/2021	0.49	Yes	225	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	8/18/2021	0.047	No	225	n/a	n/a	0	n/a	n/a	0.0000492	NP Inter (normality) 1 of 2
Beryllium (mg/L)	GWC-1	0.0036	n/a	8/18/2021	0.0025ND	No	226	n/a	n/a	71.68	n/a	n/a	0.0000492	NP Inter (NDs) 1 of 2
Beryllium (mg/L)	GWC-2	0.0036	n/a	8/18/2021	0.0002J	No	226	n/a	n/a	71.68	n/a	n/a	0.0000492	NP Inter (NDs) 1 of 2
Beryllium (mg/L)	GWC-4A	0.0036	n/a	8/18/2021	0.0025ND	No	226	n/a	n/a	71.68	n/a	n/a	0.0000492	NP Inter (NDs) 1 of 2
Beryllium (mg/L)	GWC-5	0.0036	n/a	8/18/2021	0.0021J	No	226	n/a	n/a	71.68	n/a	n/a	0.0000492	NP Inter (NDs) 1 of 2
Beryllium (mg/L)	GWC-6	0.0036	n/a	8/18/2021	0.00018J	No	226	n/a	n/a	71.68	n/a	n/a	0.0000492	NP Inter (NDs) 1 of 2
Chromium (mg/L)	GWC-1	0.032	n/a	8/18/2021	0.002ND	No	224	n/a	n/a	49.55	n/a	n/a	0.0000492	NP Inter (normality) 1 of 2
Chromium (mg/L)	GWC-2	0.032	n/a	8/18/2021	0.0064	No	224	n/a	n/a	49.55	n/a	n/a	0.0000492	NP Inter (normality) 1 of 2
Chromium (mg/L)	GWC-4A	0.032	n/a	8/18/2021	0.002ND	No	224	n/a	n/a	49.55	n/a	n/a	0.0000492	NP Inter (normality) 1 of 2
Chromium (mg/L)	GWC-5	0.032	n/a	8/18/2021	0.002ND	No	224	n/a	n/a	49.55	n/a	n/a	0.0000492	NP Inter (normality) 1 of 2
Chromium (mg/L)	GWC-6	0.032	n/a	8/18/2021	0.002ND	No	224	n/a	n/a	49.55	n/a	n/a	0.0000492	NP Inter (normality) 1 of 2
Cobalt (mg/L)	GWC-1	0.0072	n/a	8/18/2021	0.00031J	No	224	n/a	n/a	54.46	n/a	n/a	0.0000492	NP Inter (NDs) 1 of 2
Cobalt (mg/L)	GWC-2	0.0072	n/a	8/18/2021	0.0011J	No	224	n/a	n/a	54.46	n/a	n/a	0.0000492	NP Inter (NDs) 1 of 2
Cobalt (mg/L)	GWC-4A	0.0072	n/a	8/18/2021	0.00034J	No	224	n/a	n/a	54.46	n/a	n/a	0.0000492	NP Inter (NDs) 1 of 2
Cobalt (mg/L)	GWC-5	0.0072	n/a	8/18/2021	0.013	Yes	224	n/a	n/a	54.46	n/a	n/a	0.0000492	NP Inter (NDs) 1 of 2
Cobalt (mg/L)	GWC-6	0.0072	n/a	8/18/2021	0.0005J	No	224	n/a	n/a	54.46	n/a	n/a	0.0000492	NP Inter (NDs) 1 of 2
Copper (mg/L)	GWC-1	0.0055	n/a	8/18/2021	0.002ND	No	205	n/a	n/a	82.44	n/a	n/a	0.0000492	NP Inter (NDs) 1 of 2
Copper (mg/L)	GWC-2	0.0055	n/a	8/18/2021	0.002ND	No	205	n/a	n/a	82.44	n/a	n/a	0.0000492	NP Inter (NDs) 1 of 2
Copper (mg/L)	GWC-5	0.0055	n/a	8/18/2021	0.002ND	No	205	n/a	n/a	82.44	n/a	n/a	0.0000492	NP Inter (NDs) 1 of 2
Copper (mg/L)	GWC-6	0.0055	n/a	8/18/2021	0.002ND	No	205	n/a	n/a	82.44	n/a	n/a	0.0000492	NP Inter (NDs) 1 of 2
Lead (mg/L)	GWC-1	0.016	n/a	8/18/2021	0.00015J	No	225	n/a	n/a	81.78	n/a	n/a	0.0000492	NP Inter (NDs) 1 of 2
Lead (mg/L)	GWC-2	0.016	n/a	8/18/2021	0.001ND	No	225	n/a	n/a	81.78	n/a	n/a	0.0000492	NP Inter (NDs) 1 of 2
Lead (mg/L)	GWC-5	0.016	n/a	8/18/2021	0.00032J	No	225	n/a	n/a	81.78	n/a	n/a	0.0000492	NP Inter (NDs) 1 of 2
Lead (mg/L)	GWC-6	0.016	n/a	8/18/2021	0.001ND	No	225	n/a	n/a	81.78	n/a	n/a	0.0000492	NP Inter (NDs) 1 of 2
Vanadium (mg/L)	GWC-1	0.055	n/a	8/18/2021	0.001ND	No	208	n/a	n/a	76.44	n/a	n/a	0.0000492	NP Inter (NDs) 1 of 2
Vanadium (mg/L)	GWC-2	0.055	n/a	8/18/2021	0.001ND	No	208	n/a	n/a	76.44	n/a	n/a	0.0000492	NP Inter (NDs) 1 of 2
Vanadium (mg/L)	GWC-4A	0.055	n/a	8/18/2021	0.001ND	No	208	n/a	n/a	76.44	n/a	n/a	0.0000492	NP Inter (NDs) 1 of 2
Vanadium (mg/L)	GWC-5	0.055	n/a	8/18/2021	0.001ND	No	208	n/a	n/a	76.44	n/a	n/a	0.0000492	NP Inter (NDs) 1 of 2
Vanadium (mg/L)	GWC-6	0.055	n/a	8/18/2021	0.0013	No	208	n/a	n/a	76.44	n/a	n/a	0.0000492	NP Inter (NDs) 1 of 2
Zinc (mg/L)	GWC-1	0.074	n/a	8/18/2021	0.11	Yes	208	n/a	n/a	26.92	n/a	n/a	0.0000492	NP Inter (normality) 1 of 2
Zinc (mg/L)	GWC-2	0.074	n/a	8/18/2021	0.0081	No	208	n/a	n/a	26.92	n/a	n/a	0.0000492	NP Inter (normality) 1 of 2
Zinc (mg/L)	GWC-4A	0.074	n/a	8/18/2021	0.012	No	208	n/a	n/a	26.92	n/a	n/a	0.0000492	NP Inter (normality) 1 of 2
Zinc (mg/L)	GWC-5	0.074	n/a	8/18/2021	0.035	No	208	n/a	n/a	26.92	n/a	n/a	0.0000492	NP Inter (normality) 1 of 2
Zinc (mg/L)	GWC-6	0.074	n/a	8/18/2021	0.12	Yes	208	n/a	n/a	26.92	n/a	n/a	0.0000492	NP Inter (normality) 1 of 2

Appendix I Trend Test Summary - Significant Results

Plant McIntosh Client: Southern Company Data: McIntosh LF 3 CCR Printed 2/18/2022, 10:44 AM

<u>Constituent</u>	<u>Well</u>	<u>Slope</u>	<u>Calc.</u>	<u>Critical</u>	<u>Sig.</u>	<u>N</u>	<u>%NDs</u>	<u>Normality</u>	<u>Xform</u>	<u>Alpha</u>	<u>Method</u>
Barium (mg/L)	GWA-1A (bg)	-0.002203	-4.57	-2.58	Yes	51	0	n/a	n/a	0.01	NP
Barium (mg/L)	GWA-3A (bg)	0.001273	6.942	2.58	Yes	53	0	n/a	n/a	0.01	NP
Barium (mg/L)	GWA-4 (bg)	0.0009865	6.173	2.58	Yes	52	0	n/a	n/a	0.01	NP
Barium (mg/L)	GWC-5	0.01157	2.766	2.58	Yes	51	0	n/a	n/a	0.01	NP
Cobalt (mg/L)	GWA-1A (bg)	0	-3.527	-2.58	Yes	50	70	n/a	n/a	0.01	NP
Cobalt (mg/L)	GWA-2B (bg)	-0.001671	-22	-21	Yes	8	12.5	n/a	n/a	0.01	NP
Cobalt (mg/L)	GWA-3A (bg)	-0.0000229	-4.434	-2.58	Yes	53	62.26	n/a	n/a	0.01	NP
Cobalt (mg/L)	GWA-4 (bg)	-0.00008038	-5.574	-2.58	Yes	52	65.38	n/a	n/a	0.01	NP
Cobalt (mg/L)	GWA-5 (bg)	-0.00008965	-5.387	-2.58	Yes	51	37.25	n/a	n/a	0.01	NP
Cobalt (mg/L)	GWC-5	0.0002649	4.157	2.58	Yes	52	23.08	n/a	n/a	0.01	NP
Zinc (mg/L)	GWA-3A (bg)	-0.0002003	-2.708	-2.58	Yes	49	42.86	n/a	n/a	0.01	NP
Zinc (mg/L)	GWA-4 (bg)	-0.0007237	-3.257	-2.58	Yes	48	18.75	n/a	n/a	0.01	NP
Zinc (mg/L)	GWA-5 (bg)	-0.0006685	-4.076	-2.58	Yes	47	17.02	n/a	n/a	0.01	NP
Zinc (mg/L)	GWC-6	-0.0004439	-2.908	-2.58	Yes	42	30.95	n/a	n/a	0.01	NP

Appendix I Trend Test Summary - All Results

Plant McIntosh Client: Southern Company Data: McIntosh LF 3 CCR Printed 2/18/2022, 10:44 AM

<u>Constituent</u>	<u>Well</u>	<u>Slope</u>	<u>Calc.</u>	<u>Critical</u>	<u>Sig.</u>	<u>N</u>	<u>%NDs</u>	<u>Normality</u>	<u>Xform</u>	<u>Alpha</u>	<u>Method</u>
Barium (mg/L)	GWA-1A (bg)	-0.002203	-4.57	-2.58	Yes	51	0	n/a	n/a	0.01	NP
Barium (mg/L)	GWA-2B (bg)	0	0	21	No	8	0	n/a	n/a	0.01	NP
Barium (mg/L)	GWA-3A (bg)	0.001273	6.942	2.58	Yes	53	0	n/a	n/a	0.01	NP
Barium (mg/L)	GWA-4 (bg)	0.0009865	6.173	2.58	Yes	52	0	n/a	n/a	0.01	NP
Barium (mg/L)	GWA-5 (bg)	0.0003925	0.5945	2.58	No	51	0	n/a	n/a	0.01	NP
Barium (mg/L)	GWA-7A (bg)	-0.0222	-17	-21	No	8	0	n/a	n/a	0.01	NP
Barium (mg/L)	GWC-5	0.01157	2.766	2.58	Yes	51	0	n/a	n/a	0.01	NP
Cobalt (mg/L)	GWA-1A (bg)	0	-3.527	-2.58	Yes	50	70	n/a	n/a	0.01	NP
Cobalt (mg/L)	GWA-2B (bg)	-0.001671	-22	-21	Yes	8	12.5	n/a	n/a	0.01	NP
Cobalt (mg/L)	GWA-3A (bg)	-0.0000229	-4.434	-2.58	Yes	53	62.26	n/a	n/a	0.01	NP
Cobalt (mg/L)	GWA-4 (bg)	-0.00008038	-5.574	-2.58	Yes	52	65.38	n/a	n/a	0.01	NP
Cobalt (mg/L)	GWA-5 (bg)	-0.00008965	-5.387	-2.58	Yes	51	37.25	n/a	n/a	0.01	NP
Cobalt (mg/L)	GWA-7A (bg)	-0.0009367	-16	-21	No	8	0	n/a	n/a	0.01	NP
Cobalt (mg/L)	GWC-5	0.0002649	4.157	2.58	Yes	52	23.08	n/a	n/a	0.01	NP
Zinc (mg/L)	GWA-1A (bg)	-0.0001785	-2.231	-2.58	No	48	37.5	n/a	n/a	0.01	NP
Zinc (mg/L)	GWA-2B (bg)	-0.0005887	-2	-18	No	7	0	n/a	n/a	0.01	NP
Zinc (mg/L)	GWA-3A (bg)	-0.0002003	-2.708	-2.58	Yes	49	42.86	n/a	n/a	0.01	NP
Zinc (mg/L)	GWA-4 (bg)	-0.0007237	-3.257	-2.58	Yes	48	18.75	n/a	n/a	0.01	NP
Zinc (mg/L)	GWA-5 (bg)	-0.0006685	-4.076	-2.58	Yes	47	17.02	n/a	n/a	0.01	NP
Zinc (mg/L)	GWA-7A (bg)	0.0005028	1	18	No	7	0	n/a	n/a	0.01	NP
Zinc (mg/L)	GWC-1	0	-1.467	-2.58	No	48	56.25	n/a	n/a	0.01	NP
Zinc (mg/L)	GWC-6	-0.0004439	-2.908	-2.58	Yes	42	30.95	n/a	n/a	0.01	NP

Appendix III Interwell Prediction Limits - All Results (No Significant)

Plant McIntosh Client: Southern Company Data: McIntosh LF 3 CCR Printed 10/11/2021, 5:28 PM

Constituent	Well	Upper Lim.	Lower Lim.	Date	Observ.	Sig.	Bg N	Bg Mean	Std. Dev.	%NDs	ND Adj.	Transform	Alpha	Method
Boron (mg/L)	GWC-1	1.9	n/a	8/18/2021	0.07J	No	79	n/a	n/a	43.04	n/a	n/a	0.0003081	NP Inter (normality) 1 of 2
Boron (mg/L)	GWC-2	1.9	n/a	8/18/2021	0.095	No	79	n/a	n/a	43.04	n/a	n/a	0.0003081	NP Inter (normality) 1 of 2
Boron (mg/L)	GWC-4A	1.9	n/a	8/18/2021	0.043J	No	79	n/a	n/a	43.04	n/a	n/a	0.0003081	NP Inter (normality) 1 of 2
Boron (mg/L)	GWC-5	1.9	n/a	8/18/2021	0.08ND	No	79	n/a	n/a	43.04	n/a	n/a	0.0003081	NP Inter (normality) 1 of 2
Boron (mg/L)	GWC-6	1.9	n/a	8/18/2021	0.082	No	79	n/a	n/a	43.04	n/a	n/a	0.0003081	NP Inter (normality) 1 of 2
Calcium (mg/L)	GWC-1	20	n/a	8/18/2021	0.36J	No	78	n/a	n/a	0	n/a	n/a	0.000317	NP Inter (normality) 1 of 2
Calcium (mg/L)	GWC-2	20	n/a	8/18/2021	1.7	No	78	n/a	n/a	0	n/a	n/a	0.000317	NP Inter (normality) 1 of 2
Calcium (mg/L)	GWC-4A	20	n/a	8/18/2021	0.37J	No	78	n/a	n/a	0	n/a	n/a	0.000317	NP Inter (normality) 1 of 2
Calcium (mg/L)	GWC-5	20	n/a	8/18/2021	7.4	No	78	n/a	n/a	0	n/a	n/a	0.000317	NP Inter (normality) 1 of 2
Calcium (mg/L)	GWC-6	20	n/a	8/18/2021	1.6	No	78	n/a	n/a	0	n/a	n/a	0.000317	NP Inter (normality) 1 of 2
Chloride (mg/L)	GWC-1	23	n/a	8/18/2021	9.9	No	79	n/a	n/a	0	n/a	n/a	0.0003081	NP Inter (normality) 1 of 2
Chloride (mg/L)	GWC-2	23	n/a	8/18/2021	5.7	No	79	n/a	n/a	0	n/a	n/a	0.0003081	NP Inter (normality) 1 of 2
Chloride (mg/L)	GWC-4A	23	n/a	8/18/2021	7.3	No	79	n/a	n/a	0	n/a	n/a	0.0003081	NP Inter (normality) 1 of 2
Chloride (mg/L)	GWC-5	23	n/a	8/18/2021	8.2	No	79	n/a	n/a	0	n/a	n/a	0.0003081	NP Inter (normality) 1 of 2
Chloride (mg/L)	GWC-6	23	n/a	8/18/2021	7.4	No	79	n/a	n/a	0	n/a	n/a	0.0003081	NP Inter (normality) 1 of 2
Fluoride (mg/L)	GWC-1	0.21	n/a	8/18/2021	0.046J	No	79	n/a	n/a	60.76	n/a	n/a	0.0003081	NP Inter (NDs) 1 of 2
Fluoride (mg/L)	GWC-2	0.21	n/a	8/18/2021	0.1ND	No	79	n/a	n/a	60.76	n/a	n/a	0.0003081	NP Inter (NDs) 1 of 2
Fluoride (mg/L)	GWC-4A	0.21	n/a	8/18/2021	0.1ND	No	79	n/a	n/a	60.76	n/a	n/a	0.0003081	NP Inter (NDs) 1 of 2
Fluoride (mg/L)	GWC-5	0.21	n/a	8/18/2021	0.1ND	No	79	n/a	n/a	60.76	n/a	n/a	0.0003081	NP Inter (NDs) 1 of 2
Fluoride (mg/L)	GWC-6	0.21	n/a	8/18/2021	0.04J	No	79	n/a	n/a	60.76	n/a	n/a	0.0003081	NP Inter (NDs) 1 of 2
pH (S.U.)	GWC-1	5.839	4.018	8/18/2021	4.94	No	159	4.928	0.5092	0	None	No	0.000752	Param Inter 1 of 2
pH (S.U.)	GWC-2	5.839	4.018	8/18/2021	4.98	No	159	4.928	0.5092	0	None	No	0.000752	Param Inter 1 of 2
pH (S.U.)	GWC-4A	5.839	4.018	8/18/2021	4.76	No	159	4.928	0.5092	0	None	No	0.000752	Param Inter 1 of 2
pH (S.U.)	GWC-5	5.839	4.018	8/18/2021	4.9	No	159	4.928	0.5092	0	None	No	0.000752	Param Inter 1 of 2
pH (S.U.)	GWC-6	5.839	4.018	8/18/2021	5.03	No	159	4.928	0.5092	0	None	No	0.000752	Param Inter 1 of 2
Sulfate (mg/L)	GWC-1	110	n/a	8/18/2021	1ND	No	79	n/a	n/a	30.38	n/a	n/a	0.0003081	NP Inter (normality) 1 of 2
Sulfate (mg/L)	GWC-2	110	n/a	8/18/2021	1.2	No	79	n/a	n/a	30.38	n/a	n/a	0.0003081	NP Inter (normality) 1 of 2
Sulfate (mg/L)	GWC-4A	110	n/a	8/18/2021	1ND	No	79	n/a	n/a	30.38	n/a	n/a	0.0003081	NP Inter (normality) 1 of 2
Sulfate (mg/L)	GWC-5	110	n/a	8/18/2021	1ND	No	79	n/a	n/a	30.38	n/a	n/a	0.0003081	NP Inter (normality) 1 of 2
Sulfate (mg/L)	GWC-6	110	n/a	8/18/2021	1.2	No	79	n/a	n/a	30.38	n/a	n/a	0.0003081	NP Inter (normality) 1 of 2
Total Dissolved Solids (mg/L)	GWC-1	164.7	n/a	8/18/2021	32	No	78	7.506	2.928	2.564	None	sqrt(x)	0.001504	Param Inter 1 of 2
Total Dissolved Solids (mg/L)	GWC-2	164.7	n/a	8/18/2021	37	No	78	7.506	2.928	2.564	None	sqrt(x)	0.001504	Param Inter 1 of 2
Total Dissolved Solids (mg/L)	GWC-4A	164.7	n/a	8/18/2021	29	No	78	7.506	2.928	2.564	None	sqrt(x)	0.001504	Param Inter 1 of 2
Total Dissolved Solids (mg/L)	GWC-5	164.7	n/a	8/18/2021	160	No	78	7.506	2.928	2.564	None	sqrt(x)	0.001504	Param Inter 1 of 2
Total Dissolved Solids (mg/L)	GWC-6	164.7	n/a	8/18/2021	36	No	78	7.506	2.928	2.564	None	sqrt(x)	0.001504	Param Inter 1 of 2

Appendix I Interwell Prediction Limits - Resample Results

Plant McIntosh Client: Southern Company Data: McIntosh LF 3 CCR Printed 11/11/2021, 7:25 PM

<u>Constituent</u>	<u>Well</u>	<u>Upper Lim.</u>	<u>Lower Lim.</u>	<u>Date</u>	<u>Observ.</u>	<u>Sig.</u>	<u>Bq N</u>	<u>Bq Mean</u>	<u>Std. Dev.</u>	<u>%NDs</u>	<u>ND Adj.</u>	<u>Transform</u>	<u>Alpha</u>	<u>Method</u>
Zinc (mg/L)	GWC-1	0.074	n/a	10/25/2021	0.014	No	208	n/a	n/a	26.92	n/a	n/a	0.0000492	NP Inter (normality) 1 of 2
Zinc (mg/L)	GWC-6	0.074	n/a	10/25/2021	0.013	No	208	n/a	n/a	26.92	n/a	n/a	0.0000492	NP Inter (normality) 1 of 2

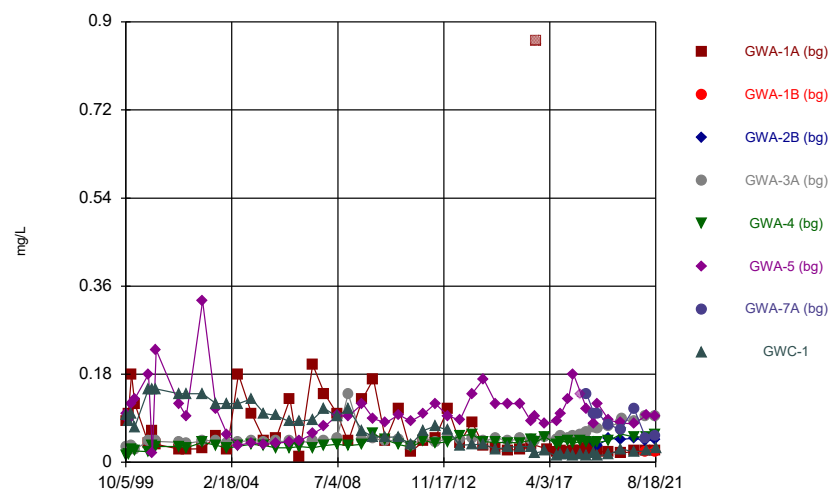
Appendix III Interwell Prediction Limits - Resample Results

Plant McIntosh Client: Southern Company Data: McIntosh LF 3 CCR Printed 11/11/2021, 7:18 PM

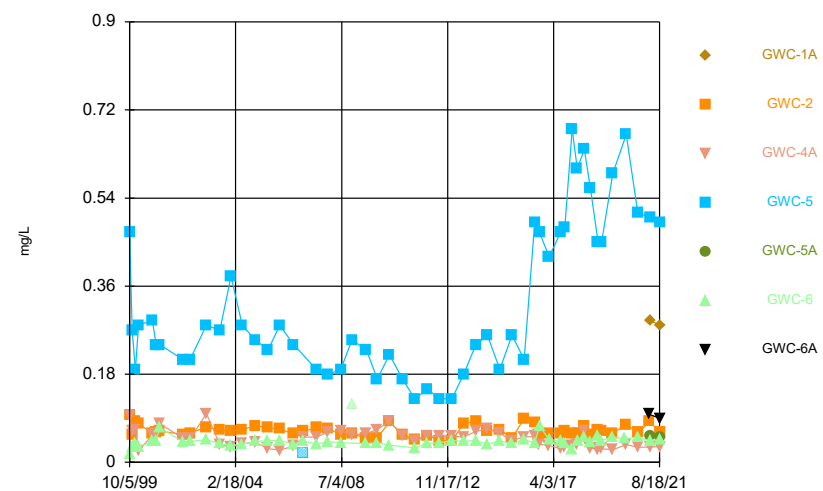
<u>Constituent</u>	<u>Well</u>	<u>Upper Lim.</u>	<u>Lower Lim.</u>	<u>Date</u>	<u>Observ.</u>	<u>Sig.</u>	<u>Bg N</u>	<u>Bg Mean</u>	<u>Std. Dev.</u>	<u>%NDs</u>	<u>ND Adj.</u>	<u>Transform</u>	<u>Alpha</u>	<u>Method</u>
pH (S.U.)	GWC-1	5.839	4.018	10/25/2021	4.82	No	159	4.928	0.5092	0	None	No	0.000752	Param Inter 1 of 2
pH (S.U.)	GWC-6	5.839	4.018	10/25/2021	4.89	No	159	4.928	0.5092	0	None	No	0.000752	Param Inter 1 of 2

FIGURE A.

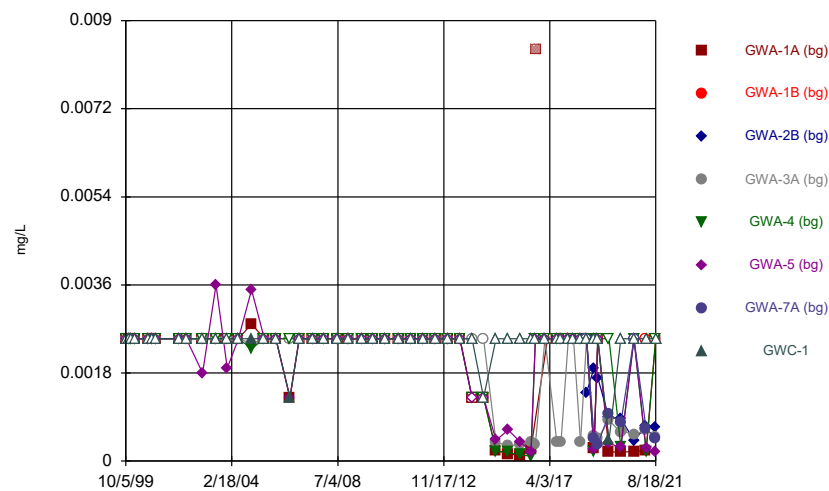
Time Series



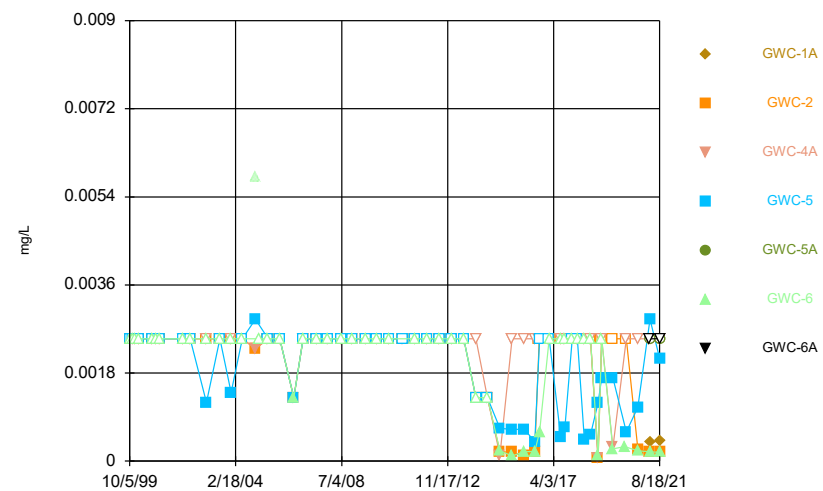
Time Series



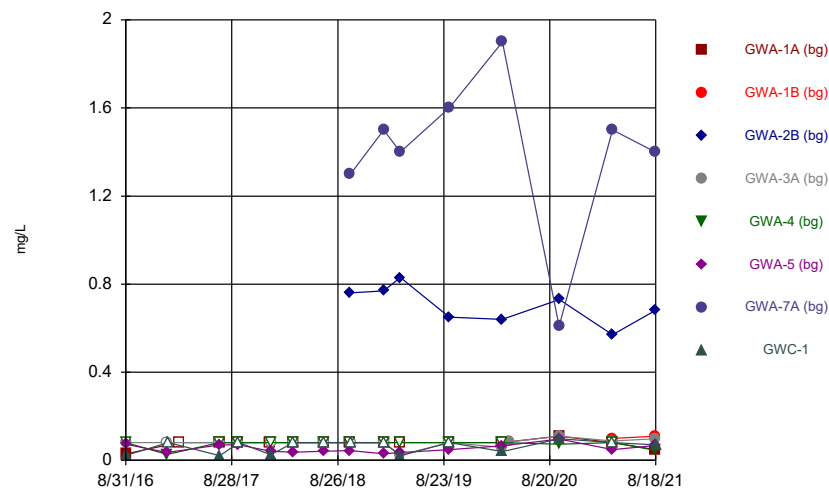
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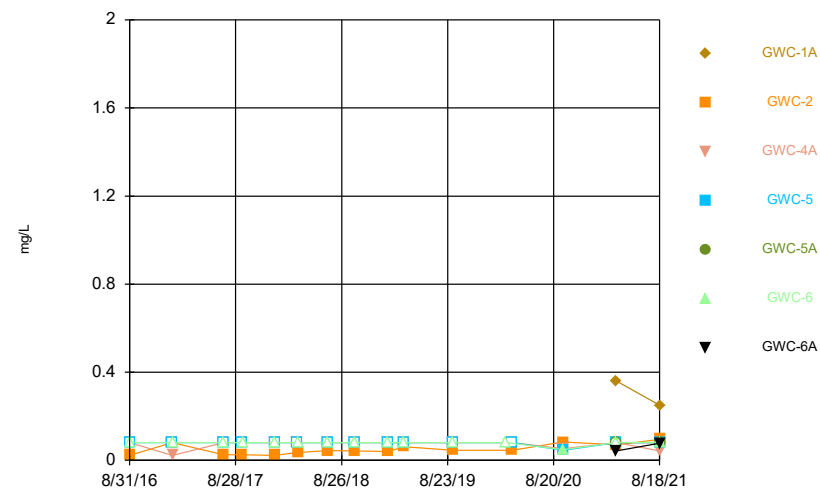
Time Series



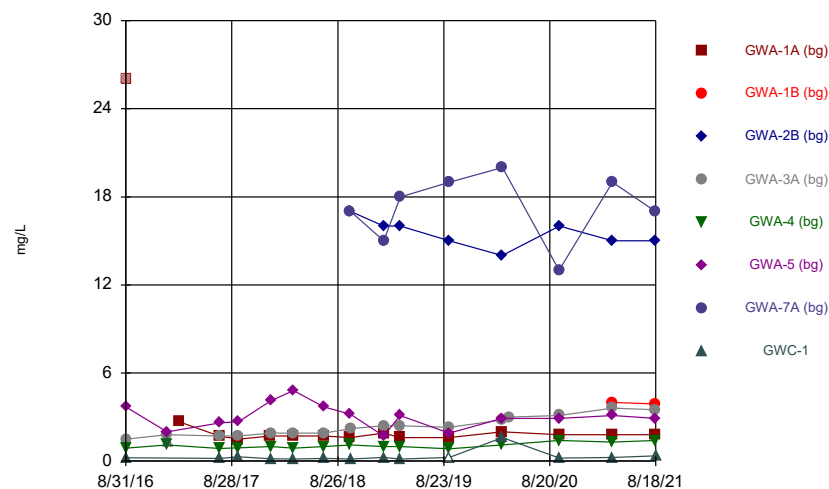
Time Series



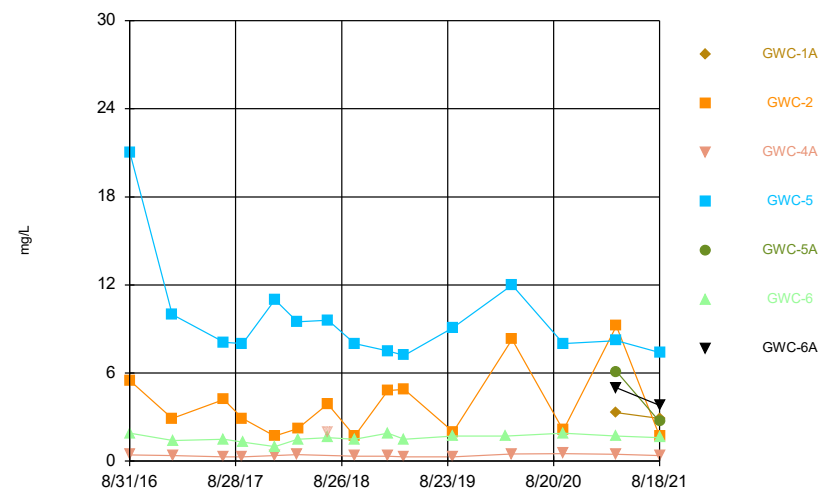
Time Series



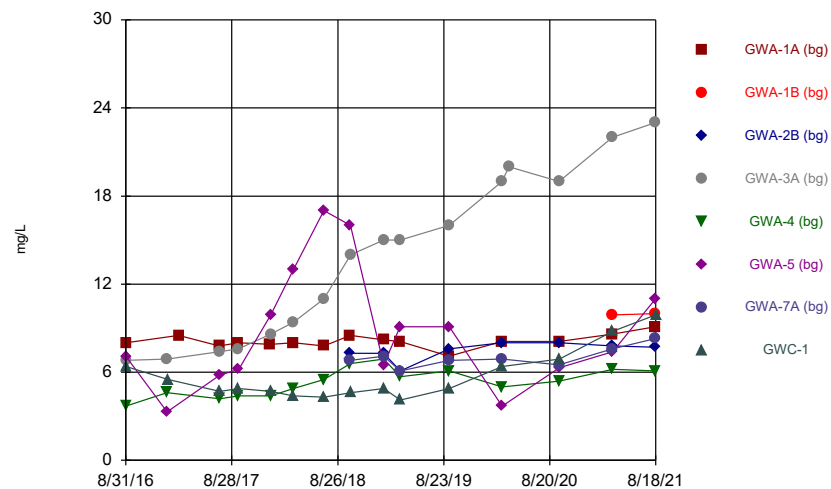
Time Series



Time Series

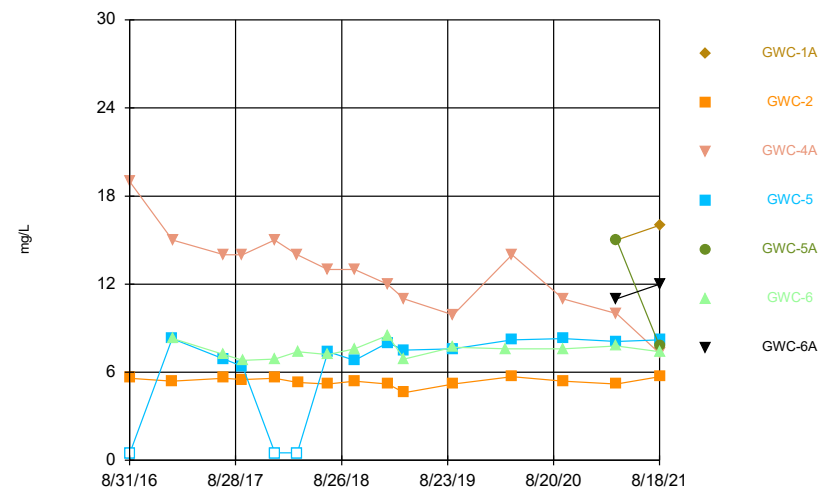


Time Series



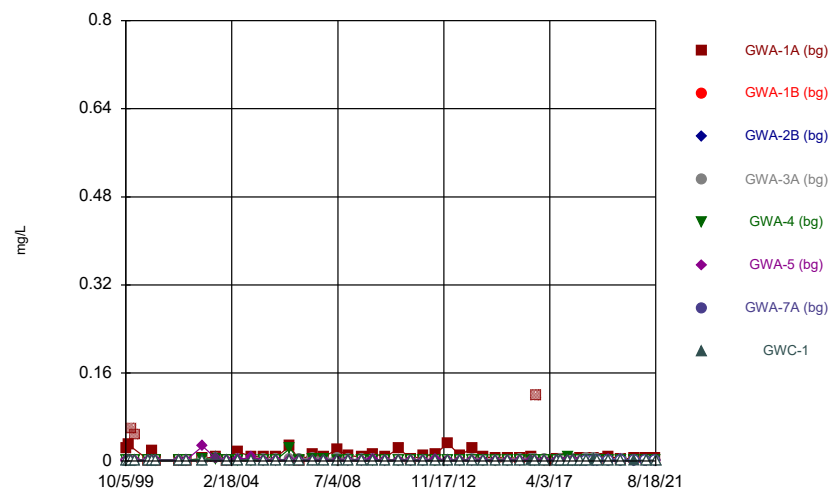
Constituent: Chloride Analysis Run 11/11/2021 6:52 PM
Plant McIntosh Client: Southern Company Data: McIntosh LF 3 CCR

Time Series



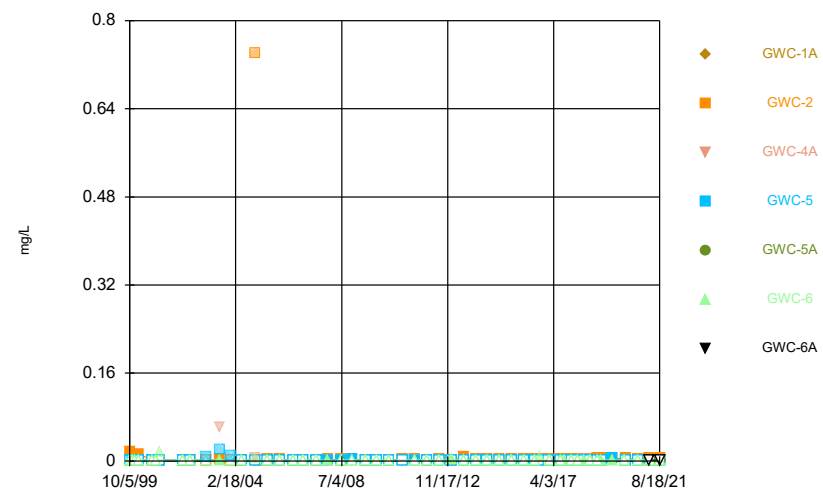
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Plant McIntosh Client: Southern Company Data: McIntosh LF 3 CCR

Time Series



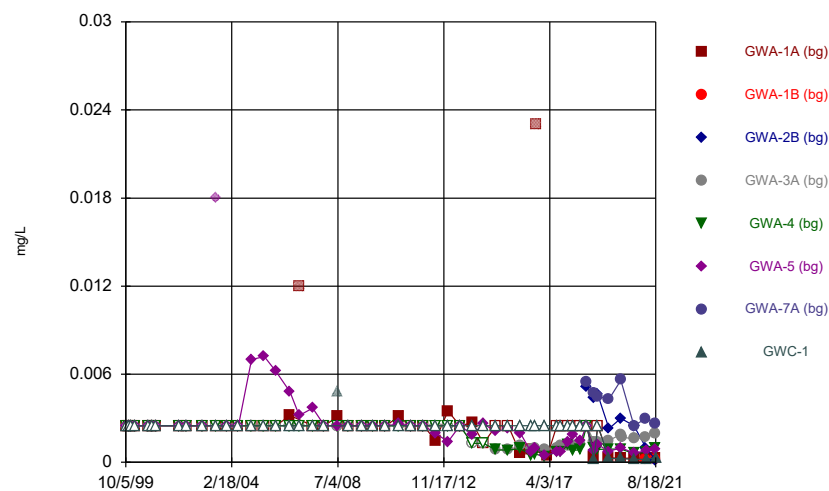
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Plant McIntosh Client: Southern Company Data: McIntosh LF 3 CCR

Time Series

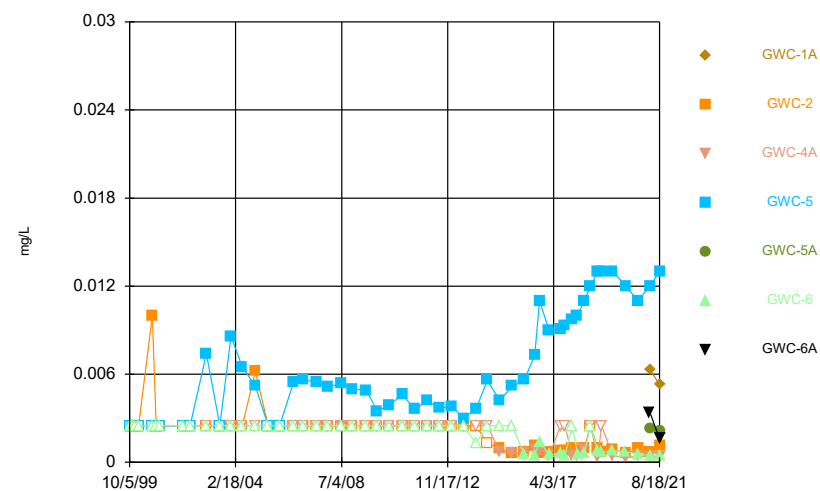


Constituent: Chromium Analysis Run 11/11/2021 6:52 PM
Plant McIntosh Client: Southern Company Data: McIntosh LF 3 CCR

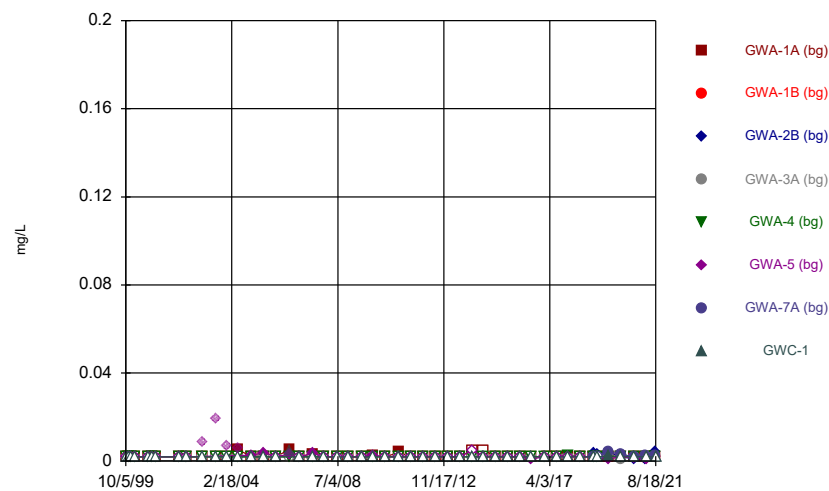
Time Series



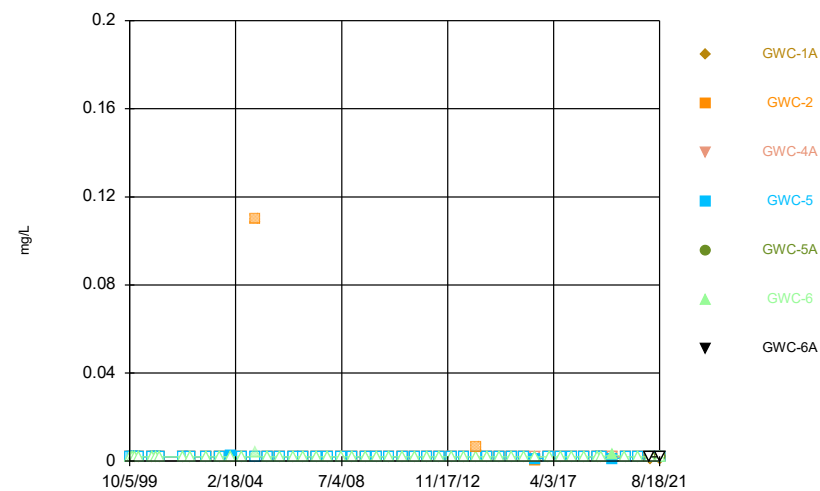
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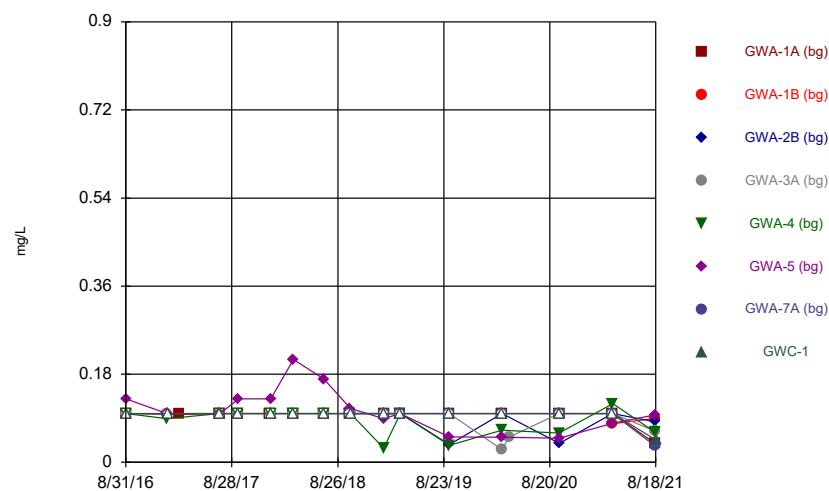
Time Series



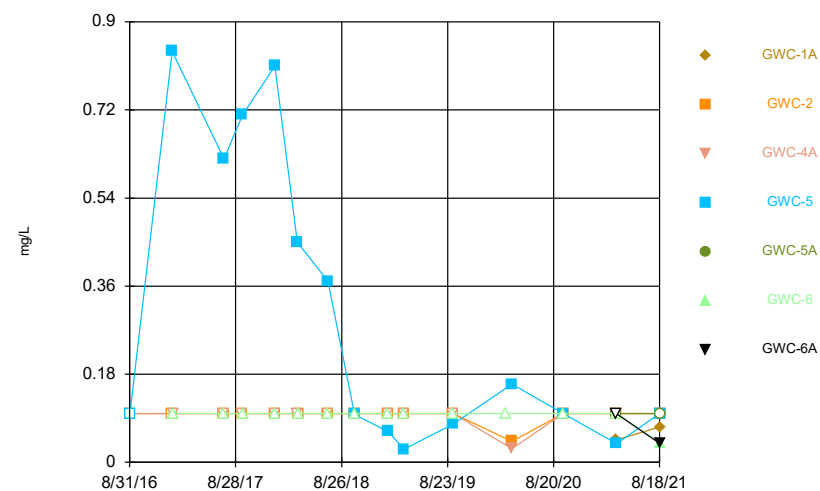
Time Series



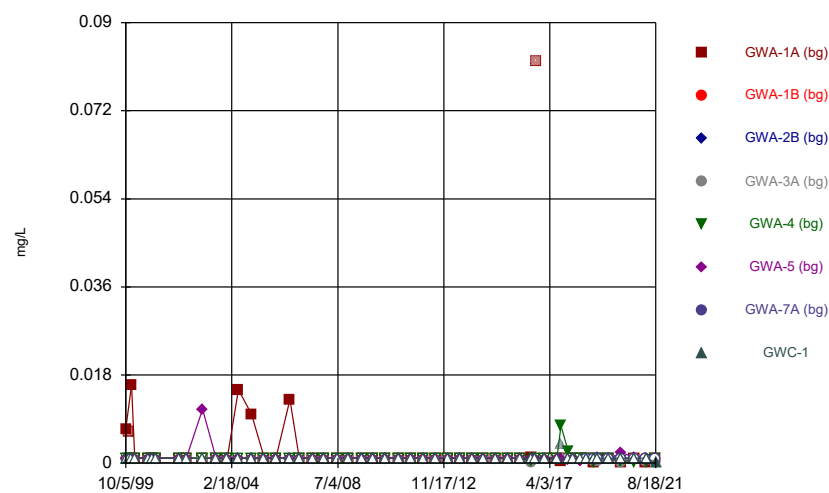
Time Series



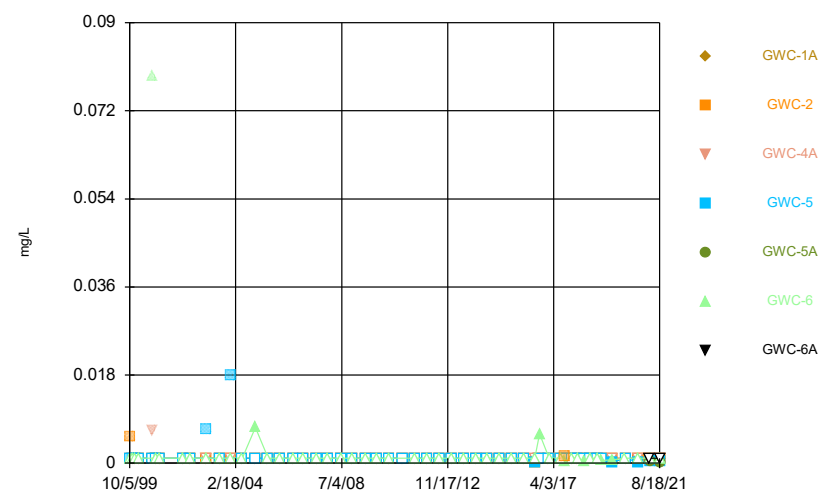
Time Series



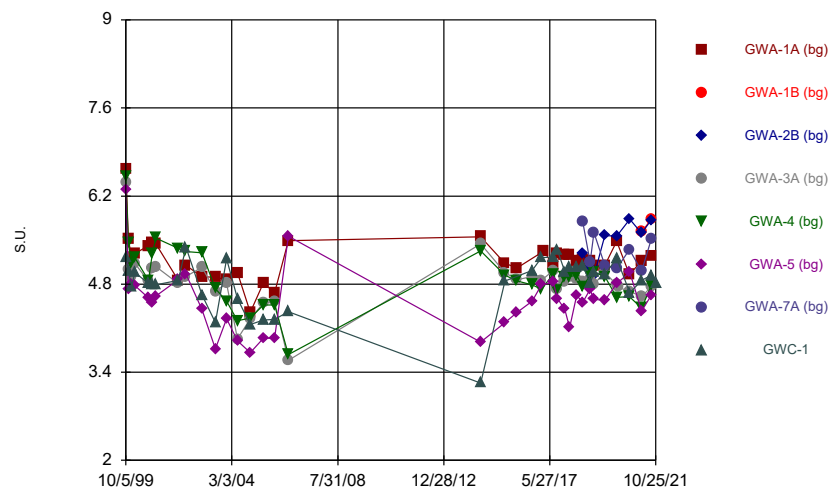
Time Series



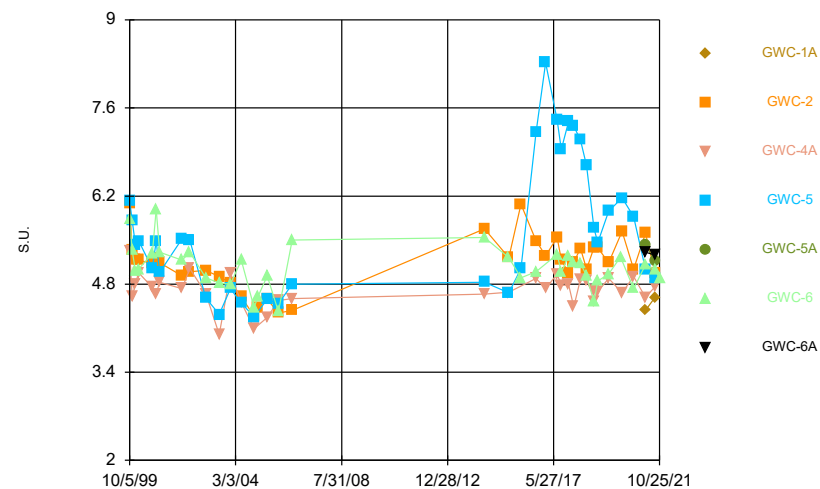
Time Series



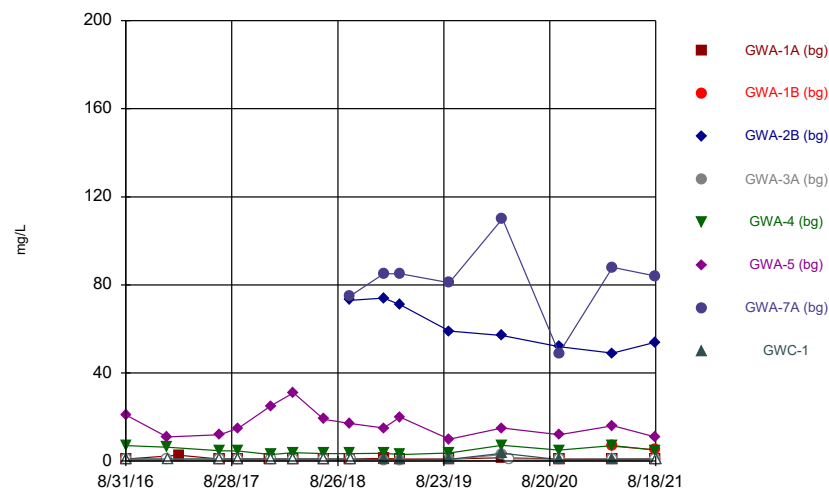
Time Series



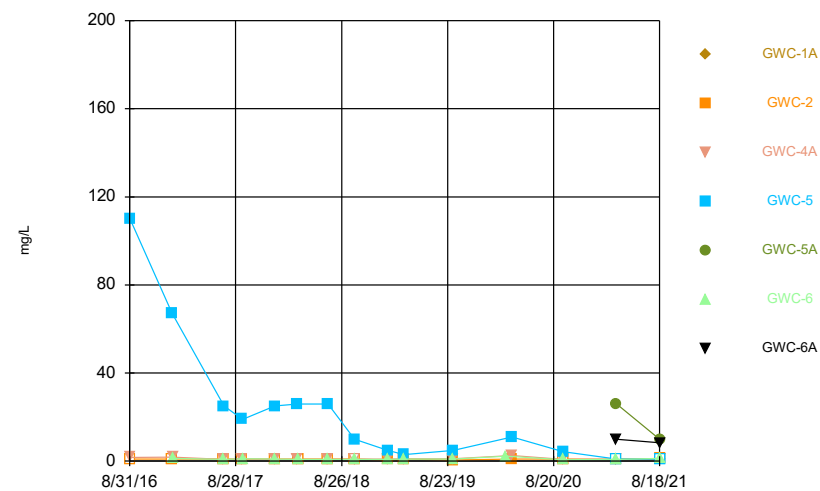
Time Series



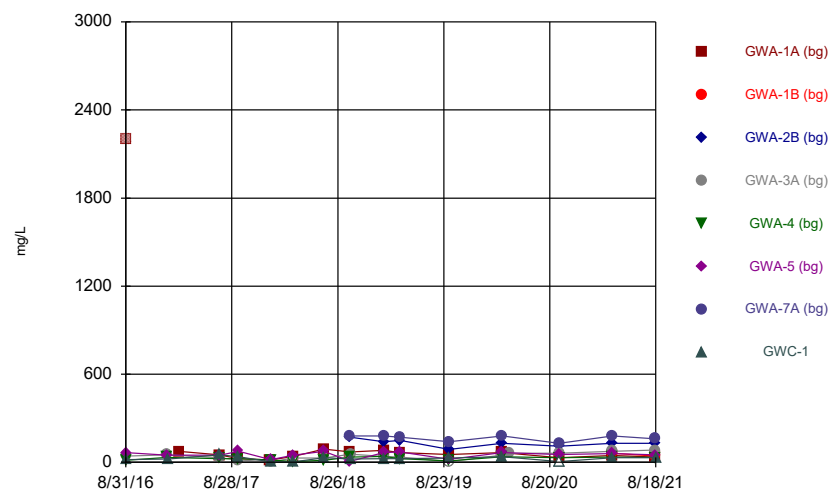
Time Series



Time Series

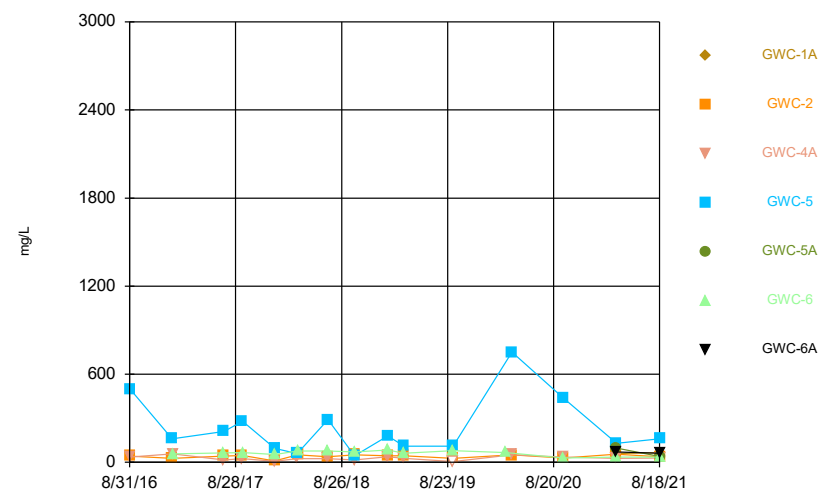


Time Series



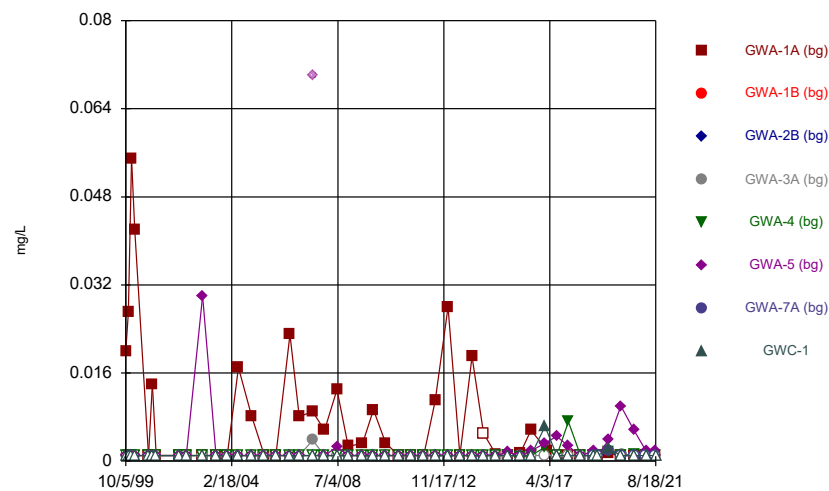
Constituent: Total Dissolved Solids Analysis Run 11/11/2021 6:52 PM
Plant McIntosh Client: Southern Company Data: McIntosh LF 3 CCR

Time Series



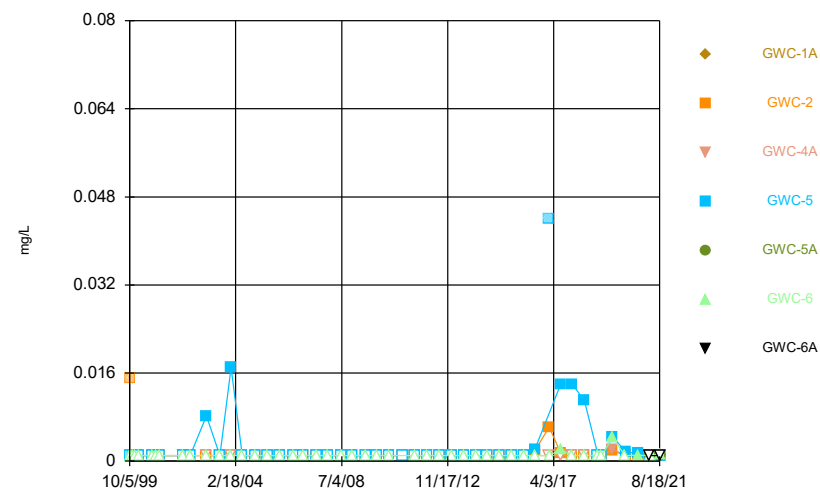
Constituent: Total Dissolved Solids Analysis Run 11/11/2021 6:52 PM
Plant McIntosh Client: Southern Company Data: McIntosh LF 3 CCR

Time Series



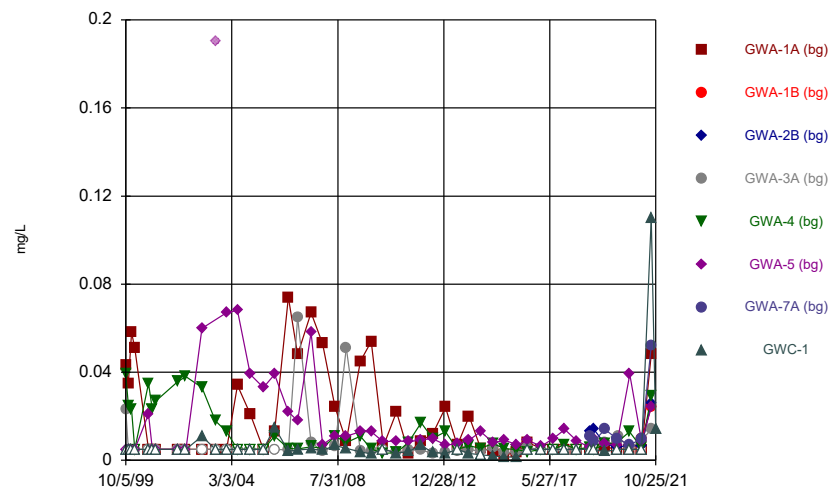
Constituent: Vanadium Analysis Run 11/11/2021 6:52 PM
Plant McIntosh Client: Southern Company Data: McIntosh LF 3 CCR

Time Series



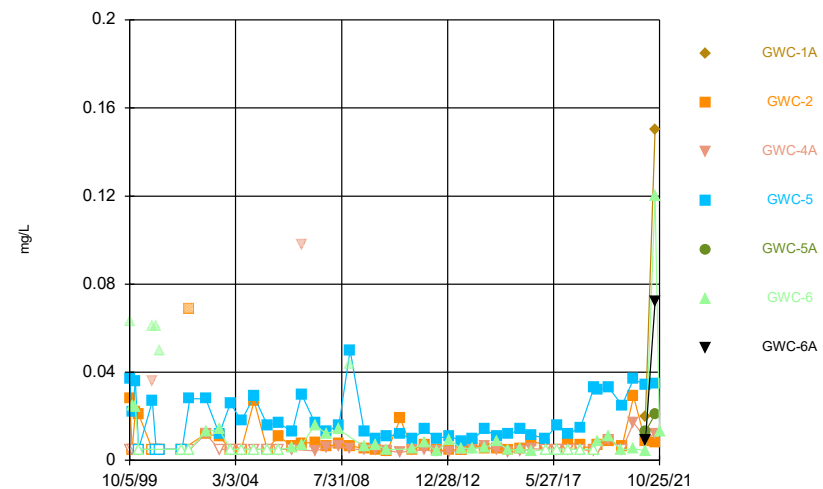
Constituent: Vanadium Analysis Run 11/11/2021 6:52 PM
Plant McIntosh Client: Southern Company Data: McIntosh LF 3 CCR

Time Series



Constituent: Zinc Analysis Run 11/11/2021 6:52 PM
Plant McIntosh Client: Southern Company Data: McIntosh LF 3 CCR

Time Series



Constituent: Zinc Analysis Run 11/11/2021 6:52 PM
Plant McIntosh Client: Southern Company Data: McIntosh LF 3 CCR

Time Series

Constituent: Barium (mg/L) Analysis Run 11/11/2021 6:53 PM
 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 11/11/2021 6:53 PM
 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
7/17/2017	0.022							
7/18/2017				0.046	0.037			
7/19/2017						0.085		0.013
9/20/2017	0.023			0.053				
9/21/2017					0.042	0.1		0.016
1/8/2018	0.022							
1/9/2018				0.05	0.043	0.13		0.016
3/27/2018	0.023			0.054	0.039	0.18		
3/28/2018								0.014
7/10/2018	0.024			0.056	0.043	0.14 (o)		
7/11/2018								0.016
10/8/2018	0.03		0.049		0.042	0.11	0.14	
10/9/2018				0.061				0.015
1/30/2019	0.024		0.041	0.071	0.04	0.079	0.1	0.018
3/27/2019	0.021					0.12		
3/28/2019			0.035	0.068	0.041		0.1	0.014
9/11/2019	0.022							
9/12/2019			0.049	0.073	0.044	0.086	0.077	0.016
3/10/2020	0.018		0.047	0.082	0.058	0.081		
3/11/2020							0.067	0.027
4/2/2020				0.088				
9/21/2020	0.023			0.083	0.052		0.11	
9/22/2020			0.049			0.078		0.022
3/23/2021	0.023	0.021	0.044	0.093			0.048	
3/24/2021					0.052	0.096		0.023
8/17/2021	0.025	0.022	0.047	0.095	0.056	0.094	0.054	
8/18/2021								0.029

Time Series

Constituent: Barium (mg/L) Analysis Run 11/11/2021 6:53 PM
 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

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Constituent: Barium (mg/L) Analysis Run 11/11/2021 6:53 PM
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

Time Series

Constituent: Beryllium (mg/L) Analysis Run 11/11/2021 6:53 PM
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		
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							

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Time Series

Constituent: Beryllium (mg/L) Analysis Run 11/11/2021 6:53 PM
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 11/11/2021 6:53 PM
 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

Time Series

Constituent: Boron (mg/L) Analysis Run 11/11/2021 6:53 PM
 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)

Time Series

Constituent: Calcium (mg/L) Analysis Run 11/11/2021 6:53 PM
 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

Time Series

Constituent: Chloride (mg/L) Analysis Run 11/11/2021 6:53 PM
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
8/31/2016				6.8	3.7	7.1		6.4
9/1/2016	8							
1/19/2017				6.9	4.6	3.3		
1/23/2017								5.5
2/28/2017	8.5							
7/17/2017	7.8							
7/18/2017				7.4	4.2			
7/19/2017						5.8		4.7
9/20/2017	8			7.6				
9/21/2017					4.4	6.2		4.9
1/8/2018	7.9							
1/9/2018				8.6	4.4	9.9		4.7
3/27/2018	8			9.4	4.9	13		
3/28/2018								4.4
7/10/2018	7.8			11	5.5	17		
7/11/2018								4.3
10/8/2018	8.5		7.3		6.6	16	6.8	
10/9/2018				14				4.6
1/30/2019	8.2		7.3	15	6.9	6.5	7.1	4.9
3/27/2019	8.1					9.1		
3/28/2019			6.1	15	5.7		6.1	4.1
9/11/2019	7.1							
9/12/2019			7.6	16	6.1	9.1	6.8	4.9
3/10/2020	8.1		8	19	5	3.7		
3/11/2020							6.9	6.4
4/2/2020				20				
9/21/2020	8.1			19	5.4		6.5	
9/22/2020			8			6.3		6.9
3/23/2021	8.6	9.9	7.8	22			7.6	
3/24/2021					6.2	7.4		8.8
8/17/2021	9.1	10	7.7	23	6.1	11	8.3	
8/18/2021								9.9

Time Series

Constituent: Chloride (mg/L) Analysis Run 11/11/2021 6:53 PM
 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

Time Series

Constituent: Chromium (mg/L) Analysis Run 11/11/2021 6:53 PM
 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 (D)			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)							

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Time Series

Constituent: Chromium (mg/L) Analysis Run 11/11/2021 6:53 PM
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 11/11/2021 6:53 PM
 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

Time Series

Constituent: Cobalt (mg/L) Analysis Run 11/11/2021 6:53 PM
 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)							

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Time Series

Constituent: Cobalt (mg/L) Analysis Run 11/11/2021 6:53 PM
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 11/11/2021 6:53 PM
 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)

Time Series

Constituent: Copper (mg/L) Analysis Run 11/11/2021 6:53 PM
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		
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			

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Time Series

Constituent: Copper (mg/L) Analysis Run 11/11/2021 6:53 PM
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

Page 2

Constituent: Copper (mg/L) Analysis Run 11/11/2021 6:53 PM
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

Time Series

Constituent: Fluoride (mg/L) Analysis Run 11/11/2021 6:53 PM

Plant McIntosh Client: Southern Company Data: McIntosh LF 3 CCR

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Time Series

Constituent: Fluoride (mg/L) Analysis Run 11/11/2021 6:53 PM
 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)

Time Series

Constituent: Lead (mg/L) Analysis Run 11/11/2021 6:53 PM
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		
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							

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Time Series

Constituent: Lead (mg/L) Analysis Run 11/11/2021 6:53 PM
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			
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 11/11/2021 6:53 PM
 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

Time Series

Constituent: pH (S.U.) Analysis Run 11/11/2021 6:53 PM
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	6.63			6.42	6.51	6.3		5.23
11/12/1999	5.51			5.03	5.46	4.72		5.02
12/29/1999	5.23			4.92	5.13	4.8		4.75
2/17/2000	5.29			5.13	5.22	4.78		4.99
9/13/2000	5.41			4.85	4.86	4.58		4.81
11/10/2000	5.47			5.05	5.29	4.5		4.79
1/4/2001	5.44			5.08	5.53	4.61		4.79
12/11/2001	4.86			4.81	5.37	4.87		4.86
4/4/2002	5.1			4.92	5.32	4.96		5.39
12/6/2002	4.917 (D)			5.07 (D)	5.3 (D)	4.4 (D)		4.63
6/28/2003	4.91			4.69	4.73	3.77		4.19
12/13/2003	4.87			4.81	4.53	4.25		5.2
5/28/2004	4.98			3.93	4.22	3.9		4.57
12/10/2004	4.35			4.25	4.26	3.71		4.16
6/24/2005	4.82			4.5	4.47	3.94		4.23
12/13/2005	4.66			4.52	4.47	3.94		4.24
7/12/2006	5.49			3.59	3.68	5.56		4.36
7/11/2014	5.55							
7/12/2014				5.44	5.33	3.88		3.23
7/15/2015	5.13			4.98	4.94	4.19		4.85
1/16/2016	5.06			4.87	4.85	4.35		
8/31/2016				4.92	4.79	4.53		5.02
1/19/2017				4.86	4.72	4.79		
1/23/2017								5.22
2/28/2017	5.33							
7/17/2017	5.09							
7/18/2017				5.02	4.96			
7/19/2017						4.83		5.23
9/20/2017	5.29			4.72				
9/21/2017					4.7	4.57		5.34
1/8/2018	5.26			4.92				
1/9/2018				4.83	4.91	4.4		5
3/27/2018	5.27			4.91	4.92	4.11		
3/28/2018								5.08
7/10/2018	5.17			4.87	4.94	4.62		
7/11/2018								5.07
10/8/2018	5.18		5.29	4.84	4.76	4.51	5.79	
10/9/2018								5.1
1/30/2019	5.17		5.08	4.88	4.94	4.72	5.15	4.81
3/27/2019	5.09					4.56		
3/28/2019			4.93	4.8	4.99		5.62	4.99
9/11/2019	5.1							
9/12/2019			5.57	4.99	4.92	4.54	5.1	4.95
3/10/2020	5.48		5.56	4.79	4.59	4.81		
3/11/2020							5.05	5.21
4/2/2020				4.75				
9/21/2020	4.95			4.69	4.6		5.35	
9/22/2020			5.83			4.99		4.66
3/23/2021	5.17	5.63	5.61	4.6			5.01	
3/24/2021					4.42	4.37		4.86
8/17/2021	5.24	5.83	5.82	4.76	4.78	4.62	5.51	
8/18/2021								4.94

Time Series

Constituent: pH (S.U.) Analysis Run 11/11/2021 6:53 PM
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
10/25/2021								4.82

Time Series

Constituent: pH (S.U.) Analysis Run 11/11/2021 6:53 PM
 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
10/25/2021						4.89	

Time Series

Constituent: Sulfate (mg/L) Analysis Run 11/11/2021 6:53 PM
 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
8/31/2016				<1	7	21		<1
9/1/2016	<1							
1/19/2017				<1	6.3	11		
1/23/2017								<1
2/28/2017	2.7							
7/17/2017	<1							
7/18/2017				<1	4.7			
7/19/2017						12		<1
9/20/2017	<1			<1				
9/21/2017					4.5	15		<1
1/8/2018	<1							
1/9/2018				<1	3	25		<1
3/27/2018	<1			<1	3.8	31		
3/28/2018								<1
7/10/2018	<1			<1	3.4	19		
7/11/2018								<1
10/8/2018	<1		73		3.4	17	75	
10/9/2018				<1				<1
1/30/2019	1.2		74	0.41 (J)	3.5	15	85	0.58 (J)
3/27/2019	<1					20		
3/28/2019			71	0.44 (J)	3		85	0.67 (J)
9/11/2019	<1							
9/12/2019			59	0.69 (J)	3.7	10	81	0.78 (J)
3/10/2020	1.5		57	3	7.2	15		
3/11/2020							110	3.5
4/2/2020				<1				
9/21/2020	<1			<1	5		49	
9/22/2020			52			12		0.63 (J)
3/23/2021	<1	6.8	49	<1			88	
3/24/2021					7	16		0.77 (J)
8/17/2021	<1	5.2	54	<1	5	11	84	
8/18/2021								<1

Time Series

Constituent: Sulfate (mg/L) Analysis Run 11/11/2021 6:53 PM
 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

Time Series

Constituent: Total Dissolved Solids (mg/L) Analysis Run 11/11/2021 6:53 PM

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
8/31/2016				42 (D)	14 (D)	66 (D)		18 (D)
9/1/2016	2200 (o)							
1/19/2017				52 (D)	34 (D)	48 (D)		
1/23/2017								22 (D)
2/28/2017	74 (D)							
7/17/2017	50							
7/18/2017				32	26			
7/19/2017						48		52
9/20/2017	26			16				
9/21/2017					24	76		38
1/8/2018	16							
1/9/2018				4 (J)	16	18		4 (J)
3/27/2018	40			30	<10	48		
3/28/2018								4 (J)
7/10/2018	90			30	14	76		
7/11/2018								32
10/8/2018	70		170		36	8	180	
10/9/2018				56				22
1/30/2019	82		140	41	40	67	180	24
3/27/2019	66					70		
3/28/2019			150	36	24		170	25
9/11/2019	53							
9/12/2019			89	<10	10	20	140	29
3/10/2020	67		130	49	39	67		
3/11/2020							180	37
4/2/2020				61				
9/21/2020	31			61	31		130	
9/22/2020			110			53		<10
3/23/2021	47	63	130	76			180	
3/24/2021					36	60		32
8/17/2021	36	43	130	83	33	50	160	
8/18/2021								32

Time Series

Constituent: Total Dissolved Solids (mg/L) Analysis Run 11/11/2021 6:53 PM

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

Time Series

Constituent: Vanadium (mg/L) Analysis Run 11/11/2021 6:53 PM
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 (o)		<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		
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 (D)			<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			

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Time Series

Constituent: Vanadium (mg/L) Analysis Run 11/11/2021 6:53 PM
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				

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	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

Time Series

Constituent: Zinc (mg/L) Analysis Run 11/11/2021 6:53 PM
 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 11/11/2021 6:53 PM
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
7/19/2017						0.0099 (J)		<0.005
1/8/2018	<0.005							
1/9/2018				<0.005	0.0072 (J)	0.014 (J)		<0.005
7/10/2018	<0.005			<0.005	<0.005	0.0089 (J)		
7/11/2018								<0.005
1/30/2019	<0.005		0.013 (J)	0.0058 (J)	0.006 (J)	0.0057 (J)	0.011 (J)	<0.005
3/27/2019	<0.005					0.01 (J)		
3/28/2019			0.014 (J)	<0.005	<0.005		0.0086 (J)	<0.005
9/11/2019	0.0062							
9/12/2019			0.0075	0.0081	0.0073	0.0074	0.014	0.0039 (J)
3/10/2020	<0.005		0.0061	0.0079	0.0079	0.0071		
3/11/2020							0.0099	<0.005
4/2/2020				0.011				
9/21/2020	<0.005			0.0055	0.013		0.007	
9/22/2020			0.0066			0.039		<0.005
3/23/2021	<0.005	0.0098	0.0066	0.0092			0.0096	
3/24/2021					0.0058	0.0085		<0.005
8/17/2021	0.048	0.024	0.026	0.014	0.029	0.024	0.052	
8/18/2021								0.11
10/25/2021								0.014

Time Series

Constituent: Zinc (mg/L) Analysis Run 11/11/2021 6:53 PM
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

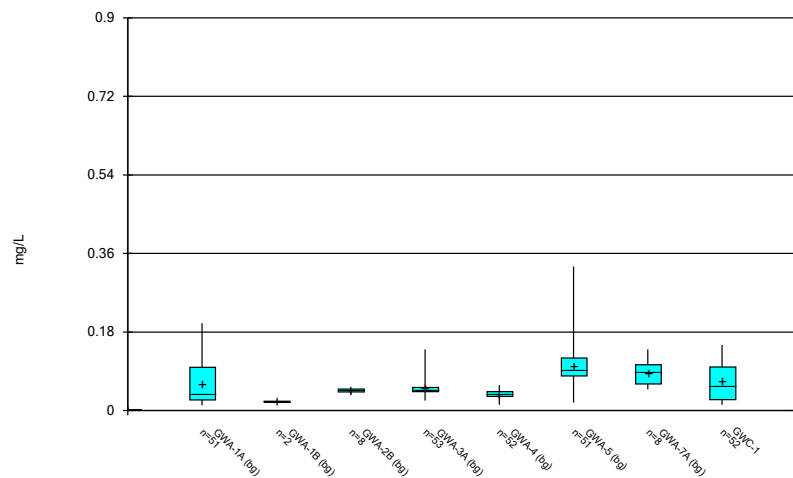
Page 2

Constituent: Zinc (mg/L) Analysis Run 11/11/2021 6:53 PM
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
10/25/2021						0.013	

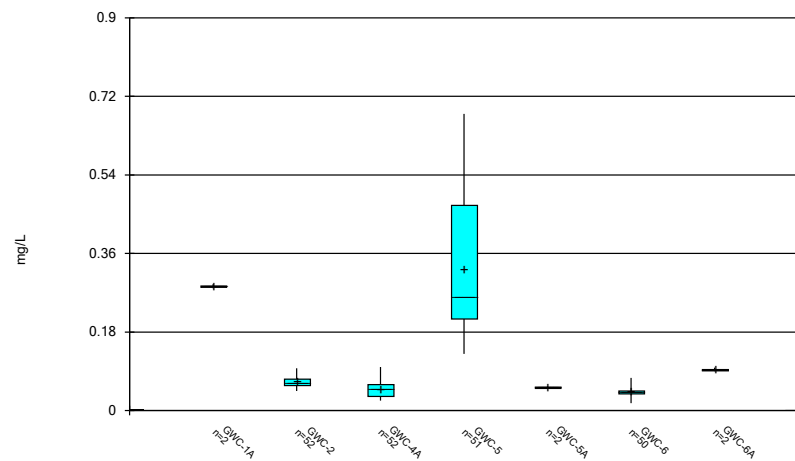
FIGURE B.

Box & Whiskers Plot



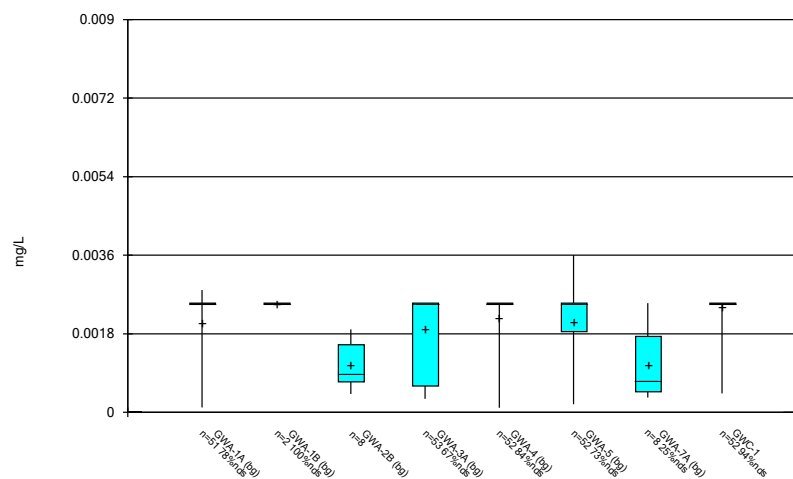
Constituent: Barium Analysis Run 11/11/2021 6:54 PM
Plant McIntosh Client: Southern Company Data: McIntosh LF 3 CCR

Box & Whiskers Plot



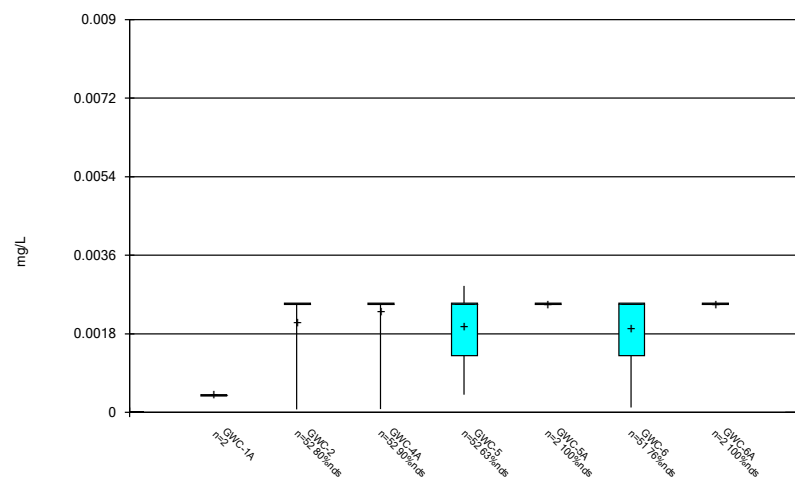
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Plant McIntosh Client: Southern Company Data: McIntosh LF 3 CCR

Box & Whiskers Plot



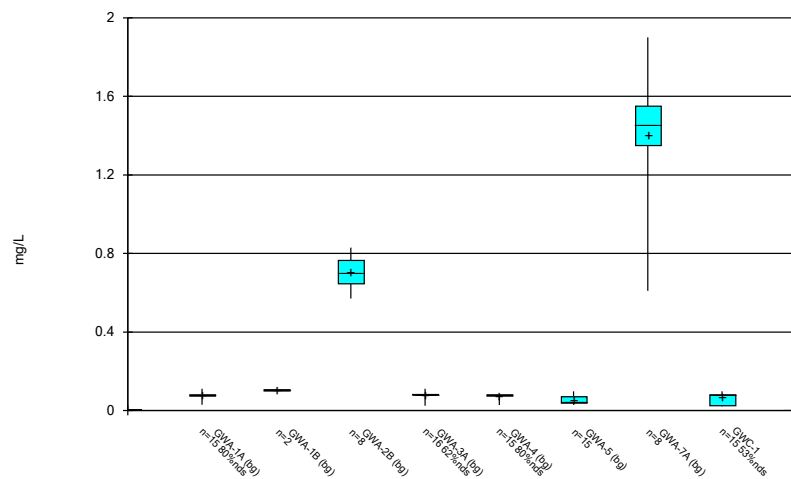
Constituent: Beryllium Analysis Run 11/11/2021 6:54 PM
Plant McIntosh Client: Southern Company Data: McIntosh LF 3 CCR

Box & Whiskers Plot



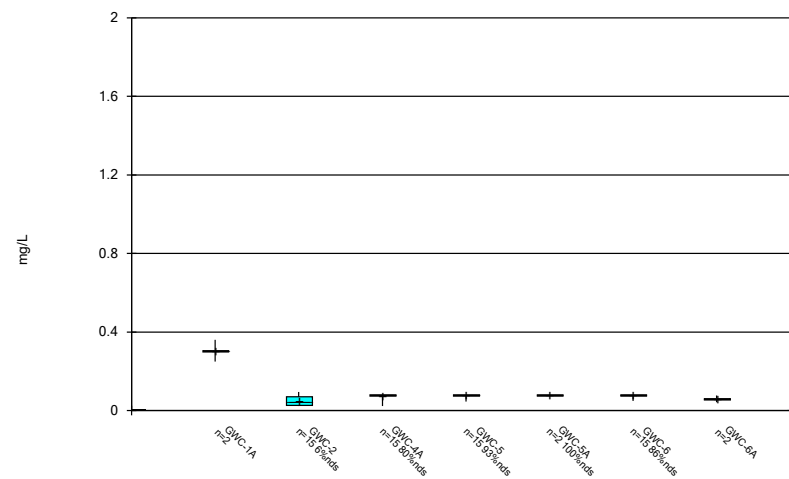
Constituent: Beryllium Analysis Run 11/11/2021 6:54 PM
Plant McIntosh Client: Southern Company Data: McIntosh LF 3 CCR

Box & Whiskers Plot



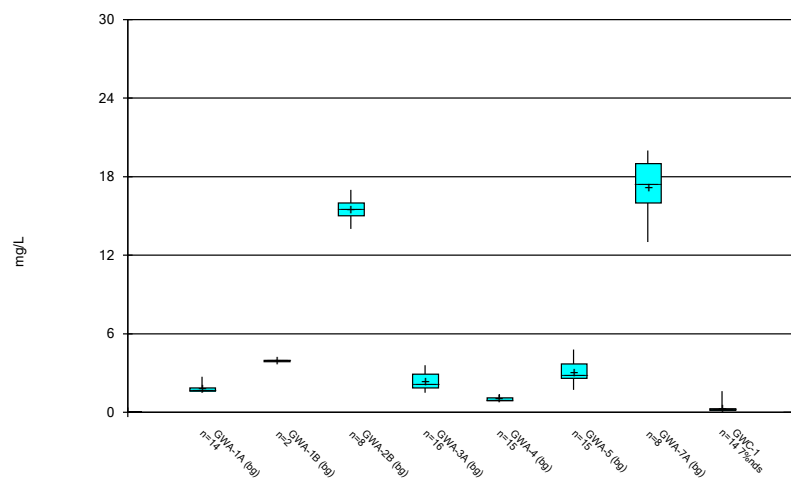
Constituent: Boron Analysis Run 11/11/2021 6:54 PM
Plant McIntosh Client: Southern Company Data: McIntosh LF 3 CCR

Box & Whiskers Plot



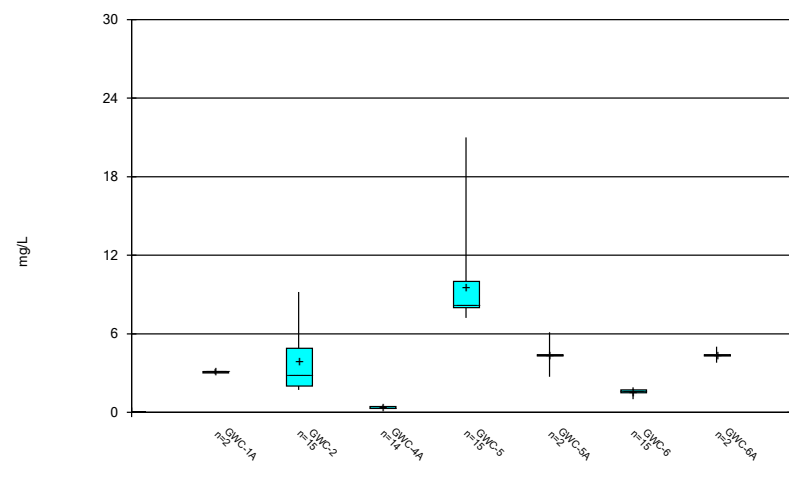
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Plant McIntosh Client: Southern Company Data: McIntosh LF 3 CCR

Box & Whiskers Plot



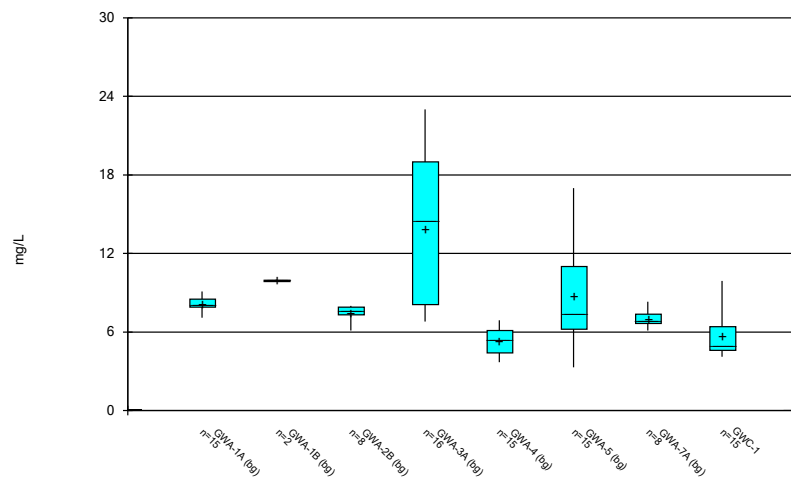
Constituent: Calcium Analysis Run 11/11/2021 6:54 PM
Plant McIntosh Client: Southern Company Data: McIntosh LF 3 CCR

Box & Whiskers Plot



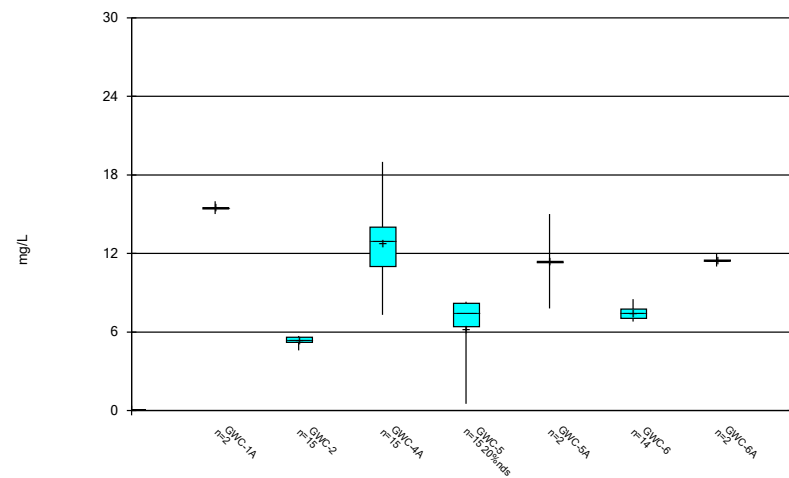
Constituent: Calcium Analysis Run 11/11/2021 6:54 PM
Plant McIntosh Client: Southern Company Data: McIntosh LF 3 CCR

Box & Whiskers Plot



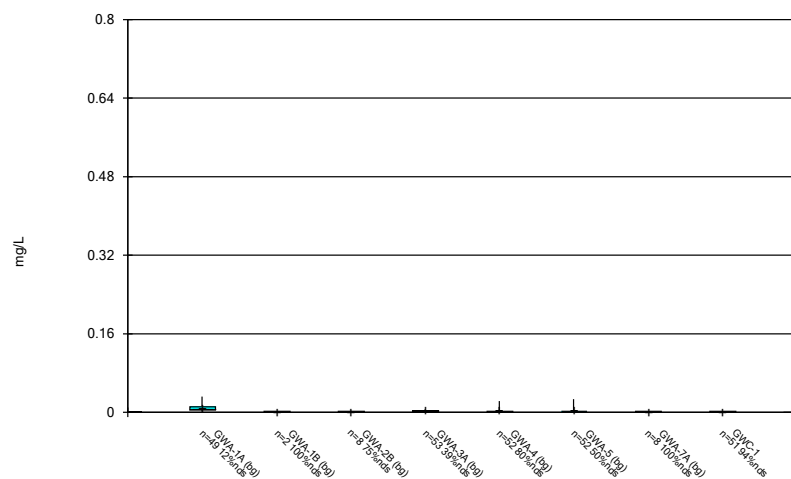
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Plant McIntosh Client: Southern Company Data: McIntosh LF 3 CCR

Box & Whiskers Plot



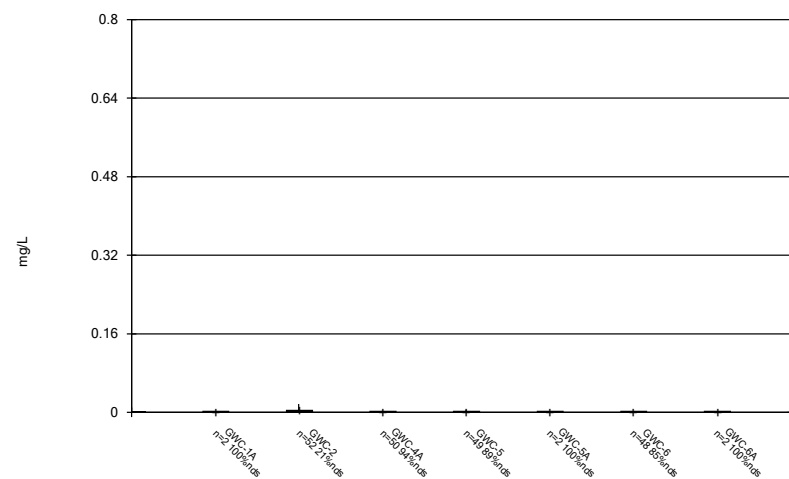
Constituent: Chloride Analysis Run 11/11/2021 6:54 PM
Plant McIntosh Client: Southern Company Data: McIntosh LF 3 CCR

Box & Whiskers Plot



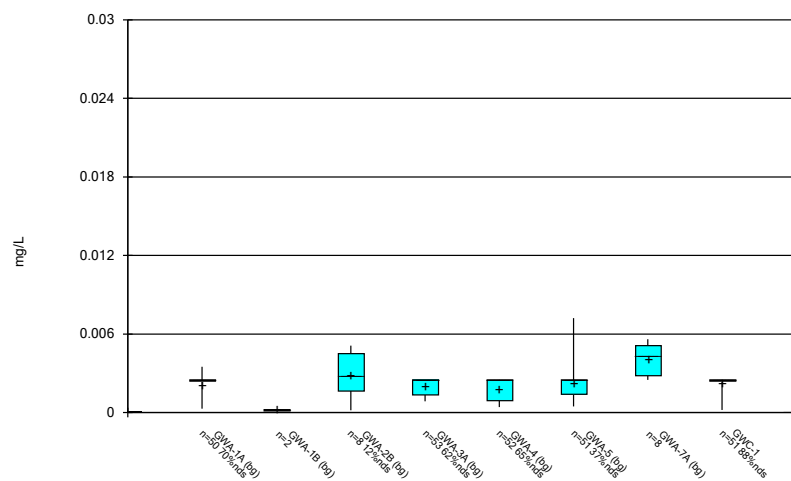
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Plant McIntosh Client: Southern Company Data: McIntosh LF 3 CCR

Box & Whiskers Plot



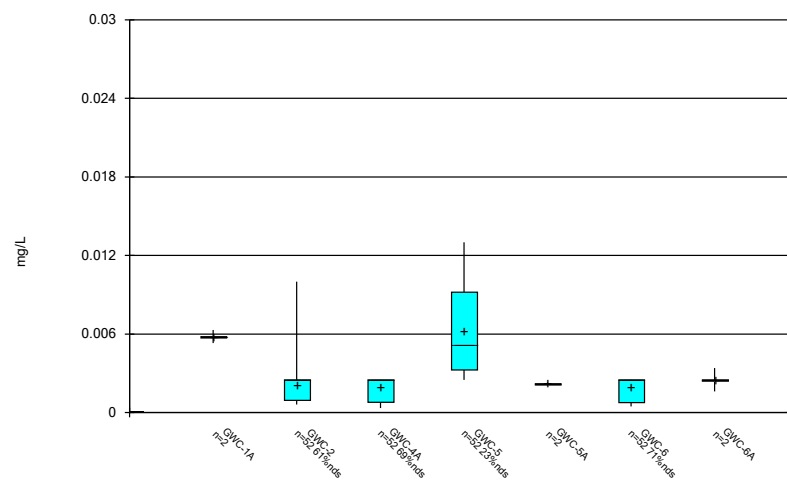
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Plant McIntosh Client: Southern Company Data: McIntosh LF 3 CCR

Box & Whiskers Plot



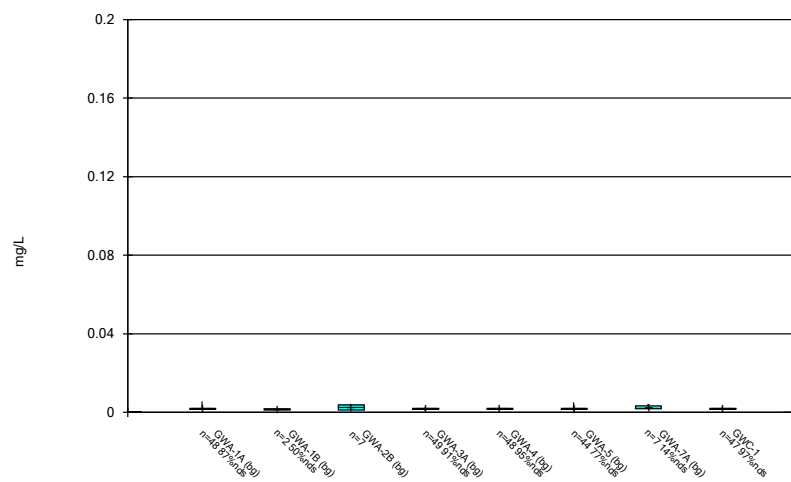
Constituent: Cobalt Analysis Run 11/11/2021 6:54 PM
Plant McIntosh Client: Southern Company Data: McIntosh LF 3 CCR

Box & Whiskers Plot



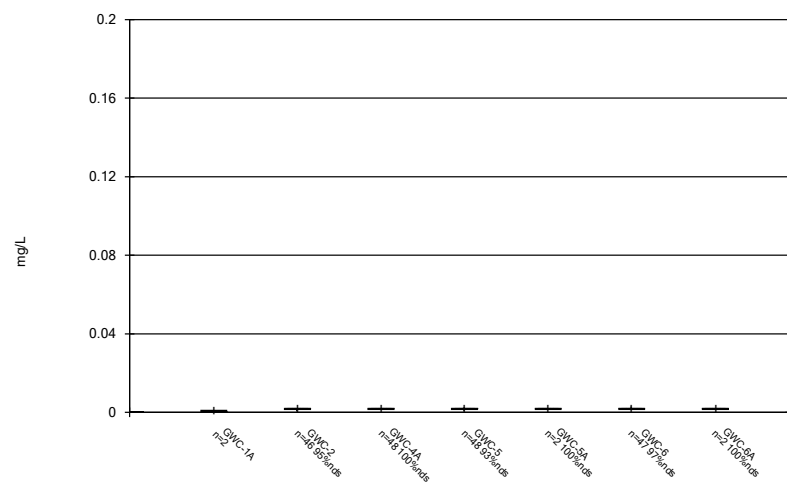
Constituent: Cobalt Analysis Run 11/11/2021 6:54 PM
Plant McIntosh Client: Southern Company Data: McIntosh LF 3 CCR

Box & Whiskers Plot



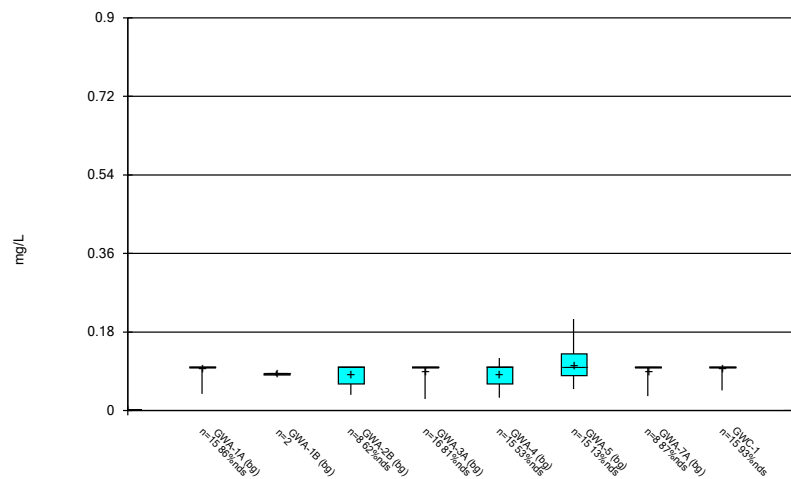
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Plant McIntosh Client: Southern Company Data: McIntosh LF 3 CCR

Box & Whiskers Plot



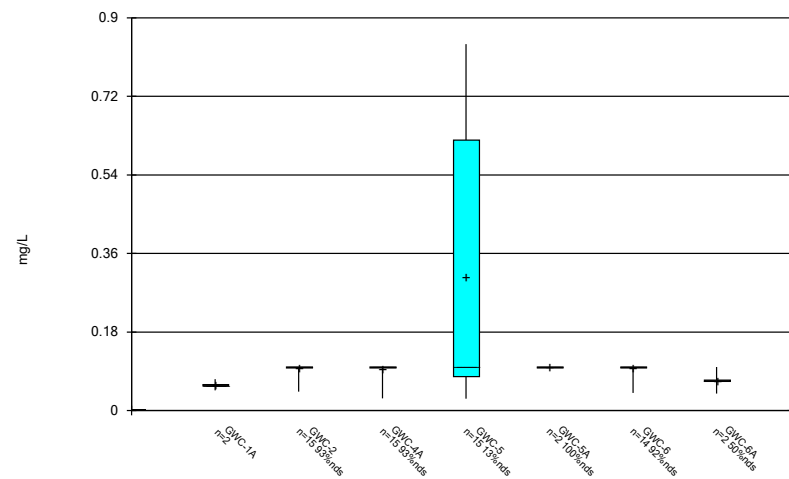
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Plant McIntosh Client: Southern Company Data: McIntosh LF 3 CCR

Box & Whiskers Plot



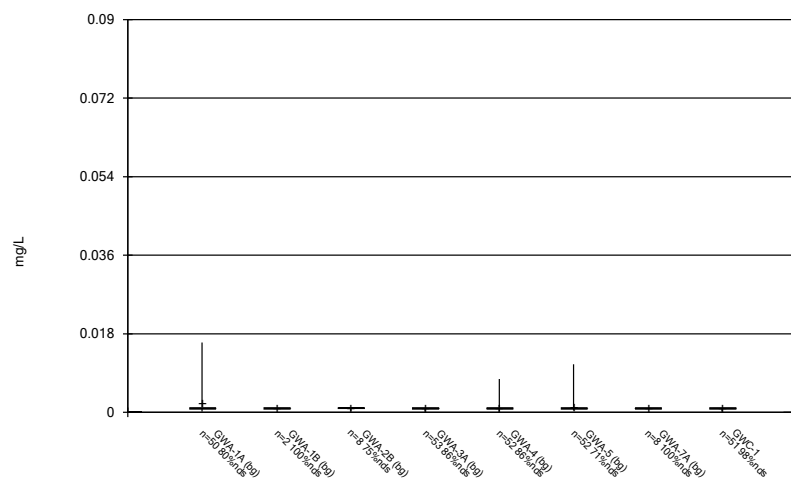
Constituent: Fluoride Analysis Run 11/11/2021 6:54 PM
Plant McIntosh Client: Southern Company Data: McIntosh LF 3 CCR

Box & Whiskers Plot



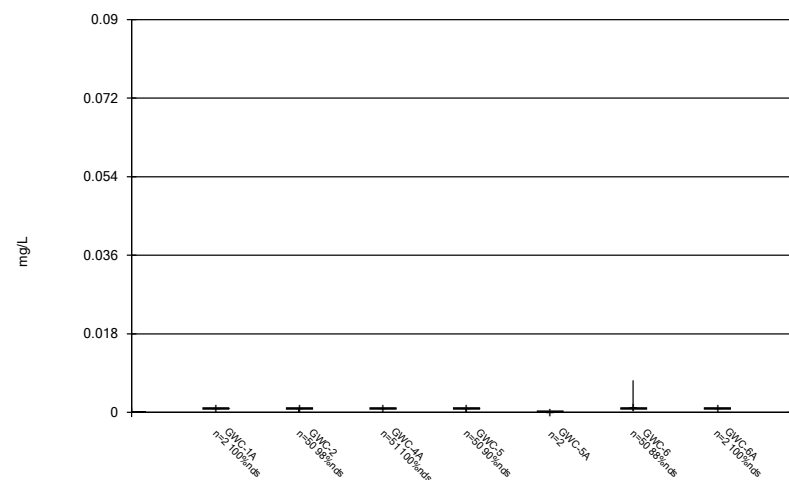
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Box & Whiskers Plot



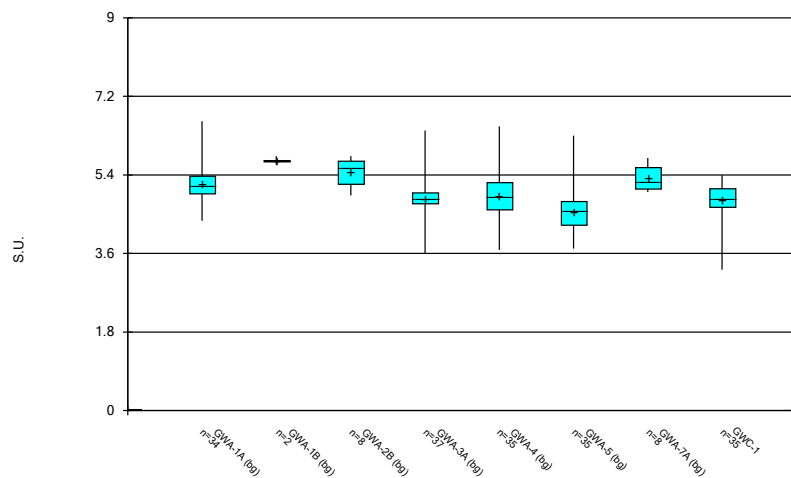
Constituent: Lead Analysis Run 11/11/2021 6:54 PM
Plant McIntosh Client: Southern Company Data: McIntosh LF 3 CCR

Box & Whiskers Plot



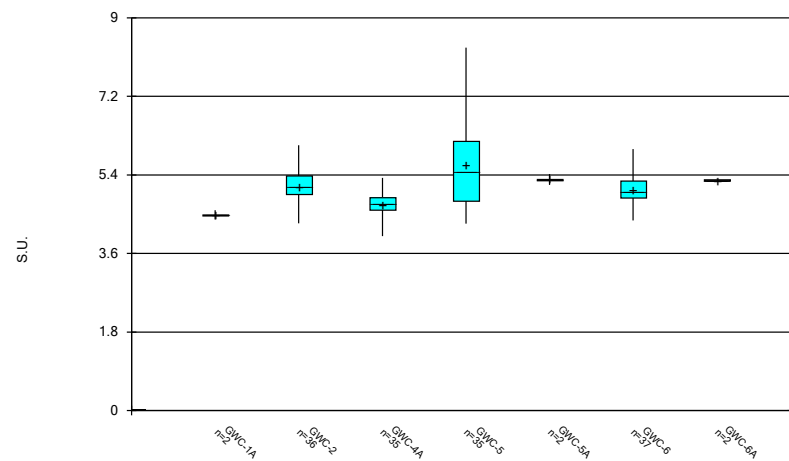
Constituent: Lead Analysis Run 11/11/2021 6:54 PM
Plant McIntosh Client: Southern Company Data: McIntosh LF 3 CCR

Box & Whiskers Plot



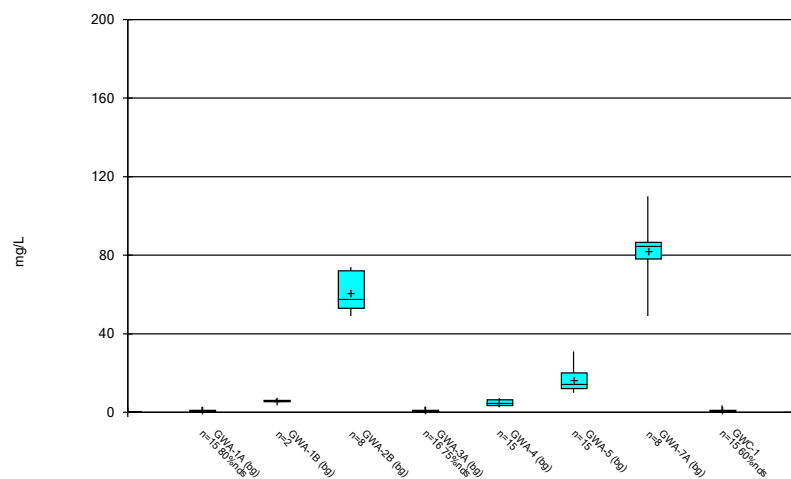
Constituent: pH Analysis Run 11/11/2021 6:54 PM
Plant McIntosh Client: Southern Company Data: McIntosh LF 3 CCR

Box & Whiskers Plot



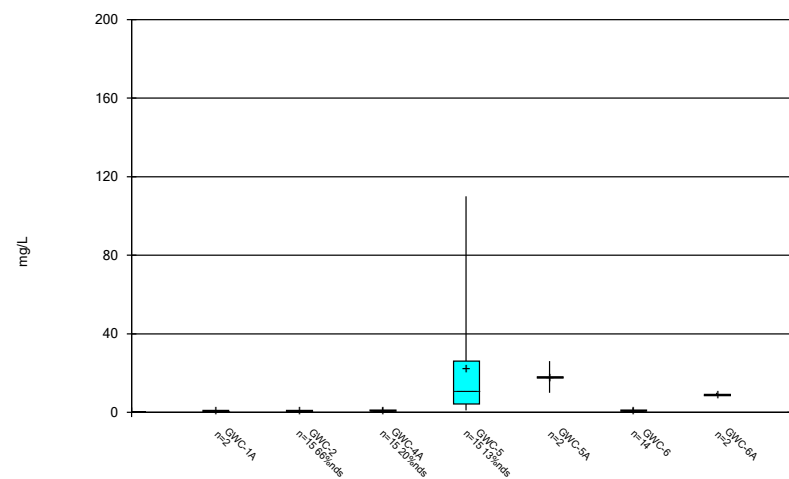
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Plant McIntosh Client: Southern Company Data: McIntosh LF 3 CCR

Box & Whiskers Plot



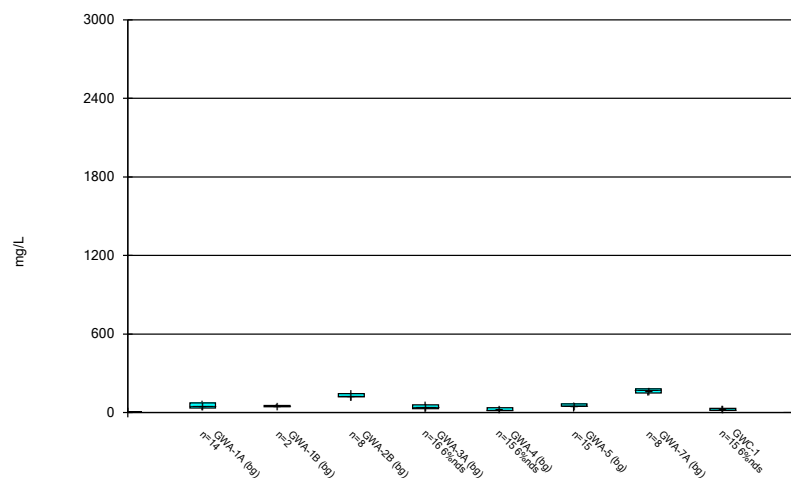
Constituent: Sulfate Analysis Run 11/11/2021 6:54 PM
Plant McIntosh Client: Southern Company Data: McIntosh LF 3 CCR

Box & Whiskers Plot



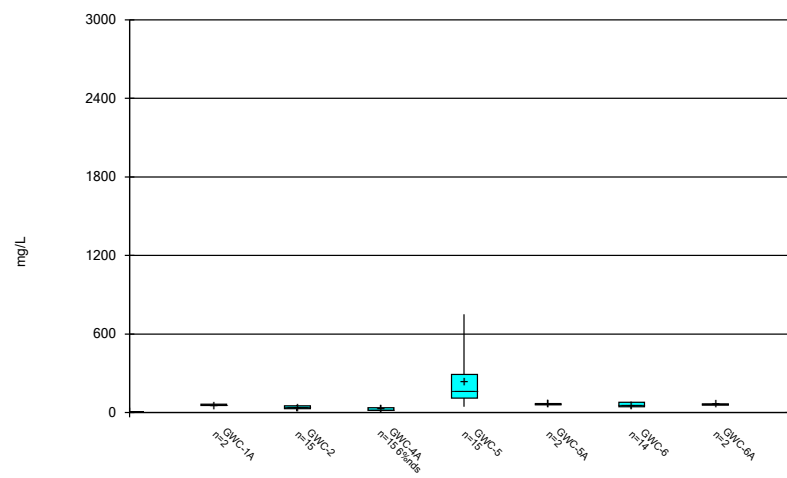
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Plant McIntosh Client: Southern Company Data: McIntosh LF 3 CCR

Box & Whiskers Plot



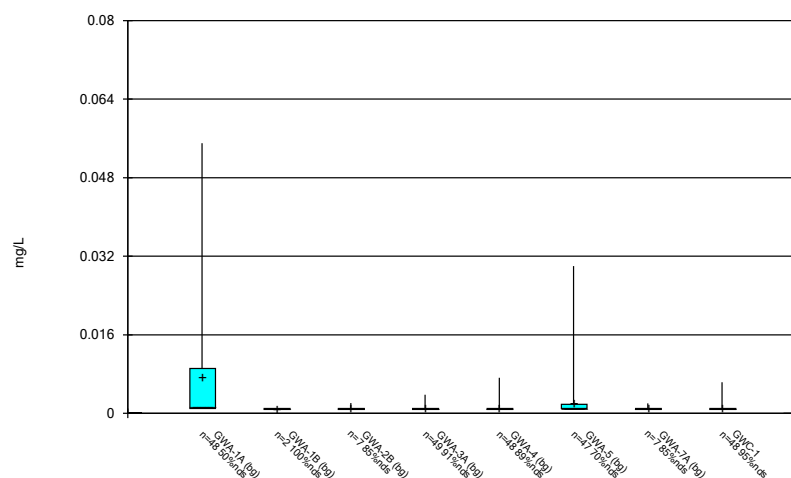
Constituent: Total Dissolved Solids Analysis Run 11/11/2021 6:54 PM
Plant McIntosh Client: Southern Company Data: McIntosh LF 3 CCR

Box & Whiskers Plot



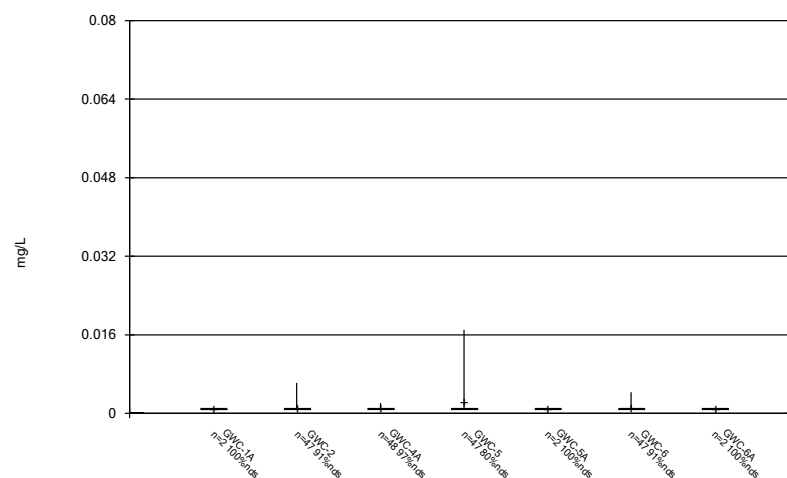
Constituent: Total Dissolved Solids Analysis Run 11/11/2021 6:54 PM
Plant McIntosh Client: Southern Company Data: McIntosh LF 3 CCR

Box & Whiskers Plot



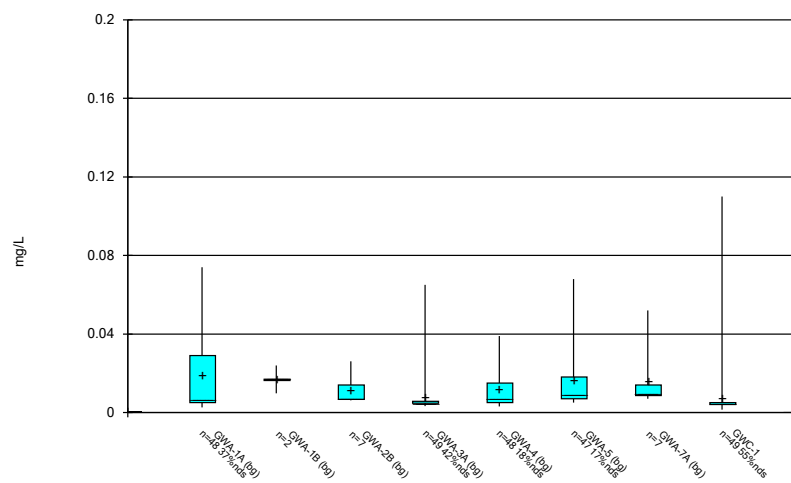
Constituent: Vanadium Analysis Run 11/11/2021 6:54 PM
Plant McIntosh Client: Southern Company Data: McIntosh LF 3 CCR

Box & Whiskers Plot



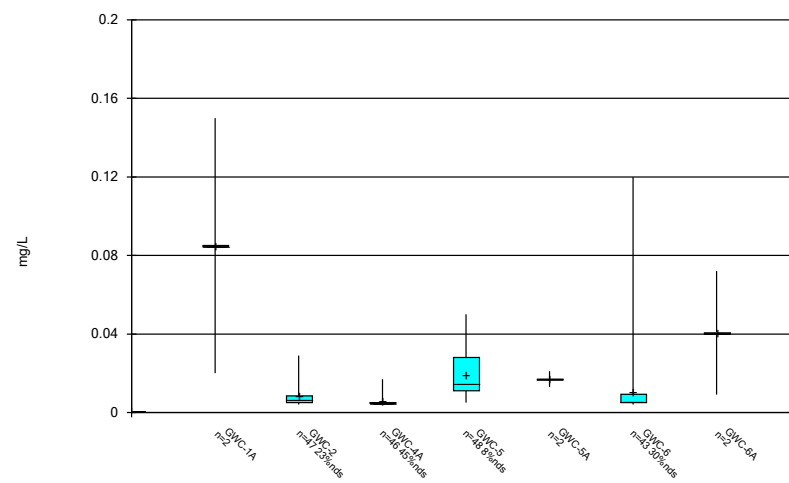
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Plant McIntosh Client: Southern Company Data: McIntosh LF 3 CCR

Box & Whiskers Plot



Constituent: Zinc Analysis Run 11/11/2021 6:54 PM
Plant McIntosh Client: Southern Company Data: McIntosh LF 3 CCR

Box & Whiskers Plot



Constituent: Zinc Analysis Run 11/11/2021 6:54 PM
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 10/11/2021, 12:01 AM

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)		

Date	Value
10/5/1999	
11/12/1999	
12/29/1999	
2/17/2000	
9/13/2000	
11/10/2000	
1/4/2001	0.016 (o)
4/4/2002	
12/6/2002	0.008 (o) 0.0089 (o)
6/28/2003	0.007 (o) 0.061 (o) 0.021 (o) 0.018 (o) 0.019 (o)
12/13/2003	
5/28/2004	
12/10/2004	0.74 (o) 0.0059 (o) 0.0046 (o) 0.0057 (o)
7/12/2006	
12/1/2006	
6/21/2007	
6/21/2008	
12/7/2008	
1/17/2014	
9/1/2016	0.0069 (o) 0.023 (o)
1/23/2017	
1/24/2017	
9/21/2017	
7/10/2018	

Date	Value	Unit
10/5/1999	0.0054	(o)
11/12/1999	0.0063	(o)
12/29/1999		
2/17/2000		
9/13/2000	0.0067	(o)
11/10/2000	0.079	(o)
1/4/2001		
4/4/2002		
12/6/2002	0.007	(o)
6/28/2003		
12/13/2003	0.018	(o)
5/28/2004		
12/10/2004	0.11	(o)
7/12/2006	0.0044	(o)
12/1/2006		
6/21/2007		
6/21/2008		
12/7/2008		
1/17/2014	0.0065	(o)
9/1/2016	0.082	(o)
1/23/2017		
1/24/2017		
9/21/2017	0.004	(o)
7/10/2018	0.0014	(o)

Outlier Summary

Plant McIntosh Client: Southern Company Data: McIntosh LF 3 CCR Printed 10/11/2021, 12:01 AM

	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.

Appendix I Interwell Prediction Limits - Significant Results

Plant McIntosh Client: Southern Company Data: McIntosh LF 3 CCR Printed 2/17/2022, 5:39 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-5	0.33	n/a	8/18/2021	0.49	Yes	225	n/a	n/a	0	n/a	n/a	0.0000492	NP Inter (normality) 1 of 2
Cobalt (mg/L)	GWC-5	0.0072	n/a	8/18/2021	0.013	Yes	224	n/a	n/a	54.46	n/a	n/a	0.0000492	NP Inter (NDs) 1 of 2
Zinc (mg/L)	GWC-1	0.074	n/a	8/18/2021	0.11	Yes	208	n/a	n/a	26.92	n/a	n/a	0.0000492	NP Inter (normality) 1 of 2
Zinc (mg/L)	GWC-6	0.074	n/a	8/18/2021	0.12	Yes	208	n/a	n/a	26.92	n/a	n/a	0.0000492	NP Inter (normality) 1 of 2

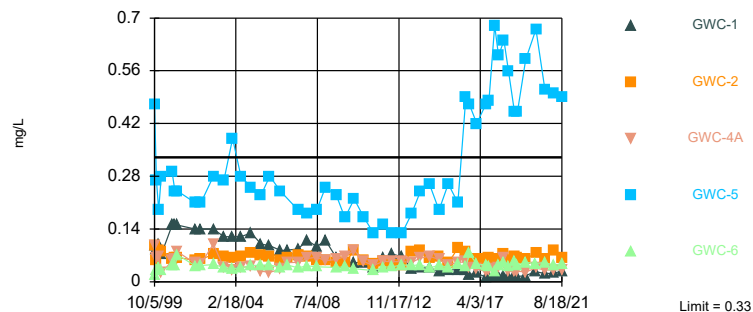
Appendix I Interwell Prediction Limits - All Results

Plant McIntosh Client: Southern Company Data: McIntosh LF 3 CCR Printed 2/17/2022, 5:39 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	8/18/2021	0.029	No	225	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	8/18/2021	0.062	No	225	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	8/18/2021	0.032	No	225	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	8/18/2021	0.49	Yes	225	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	8/18/2021	0.047	No	225	n/a	n/a	0	n/a	n/a	0.0000492	NP Inter (normality) 1 of 2
Beryllium (mg/L)	GWC-1	0.0036	n/a	8/18/2021	0.0025ND	No	226	n/a	n/a	71.68	n/a	n/a	0.0000492	NP Inter (NDs) 1 of 2
Beryllium (mg/L)	GWC-2	0.0036	n/a	8/18/2021	0.0002J	No	226	n/a	n/a	71.68	n/a	n/a	0.0000492	NP Inter (NDs) 1 of 2
Beryllium (mg/L)	GWC-4A	0.0036	n/a	8/18/2021	0.0025ND	No	226	n/a	n/a	71.68	n/a	n/a	0.0000492	NP Inter (NDs) 1 of 2
Beryllium (mg/L)	GWC-5	0.0036	n/a	8/18/2021	0.0021J	No	226	n/a	n/a	71.68	n/a	n/a	0.0000492	NP Inter (NDs) 1 of 2
Beryllium (mg/L)	GWC-6	0.0036	n/a	8/18/2021	0.00018J	No	226	n/a	n/a	71.68	n/a	n/a	0.0000492	NP Inter (NDs) 1 of 2
Chromium (mg/L)	GWC-1	0.032	n/a	8/18/2021	0.002ND	No	224	n/a	n/a	49.55	n/a	n/a	0.0000492	NP Inter (normality) 1 of 2
Chromium (mg/L)	GWC-2	0.032	n/a	8/18/2021	0.0064	No	224	n/a	n/a	49.55	n/a	n/a	0.0000492	NP Inter (normality) 1 of 2
Chromium (mg/L)	GWC-4A	0.032	n/a	8/18/2021	0.002ND	No	224	n/a	n/a	49.55	n/a	n/a	0.0000492	NP Inter (normality) 1 of 2
Chromium (mg/L)	GWC-5	0.032	n/a	8/18/2021	0.002ND	No	224	n/a	n/a	49.55	n/a	n/a	0.0000492	NP Inter (normality) 1 of 2
Chromium (mg/L)	GWC-6	0.032	n/a	8/18/2021	0.002ND	No	224	n/a	n/a	49.55	n/a	n/a	0.0000492	NP Inter (normality) 1 of 2
Cobalt (mg/L)	GWC-1	0.0072	n/a	8/18/2021	0.00031J	No	224	n/a	n/a	54.46	n/a	n/a	0.0000492	NP Inter (NDs) 1 of 2
Cobalt (mg/L)	GWC-2	0.0072	n/a	8/18/2021	0.0011J	No	224	n/a	n/a	54.46	n/a	n/a	0.0000492	NP Inter (NDs) 1 of 2
Cobalt (mg/L)	GWC-4A	0.0072	n/a	8/18/2021	0.00034J	No	224	n/a	n/a	54.46	n/a	n/a	0.0000492	NP Inter (NDs) 1 of 2
Cobalt (mg/L)	GWC-5	0.0072	n/a	8/18/2021	0.013	Yes	224	n/a	n/a	54.46	n/a	n/a	0.0000492	NP Inter (NDs) 1 of 2
Cobalt (mg/L)	GWC-6	0.0072	n/a	8/18/2021	0.0005J	No	224	n/a	n/a	54.46	n/a	n/a	0.0000492	NP Inter (NDs) 1 of 2
Copper (mg/L)	GWC-1	0.0055	n/a	8/18/2021	0.002ND	No	205	n/a	n/a	82.44	n/a	n/a	0.0000492	NP Inter (NDs) 1 of 2
Copper (mg/L)	GWC-2	0.0055	n/a	8/18/2021	0.002ND	No	205	n/a	n/a	82.44	n/a	n/a	0.0000492	NP Inter (NDs) 1 of 2
Copper (mg/L)	GWC-5	0.0055	n/a	8/18/2021	0.002ND	No	205	n/a	n/a	82.44	n/a	n/a	0.0000492	NP Inter (NDs) 1 of 2
Copper (mg/L)	GWC-6	0.0055	n/a	8/18/2021	0.002ND	No	205	n/a	n/a	82.44	n/a	n/a	0.0000492	NP Inter (NDs) 1 of 2
Lead (mg/L)	GWC-1	0.016	n/a	8/18/2021	0.00015J	No	225	n/a	n/a	81.78	n/a	n/a	0.0000492	NP Inter (NDs) 1 of 2
Lead (mg/L)	GWC-2	0.016	n/a	8/18/2021	0.001ND	No	225	n/a	n/a	81.78	n/a	n/a	0.0000492	NP Inter (NDs) 1 of 2
Lead (mg/L)	GWC-5	0.016	n/a	8/18/2021	0.00032J	No	225	n/a	n/a	81.78	n/a	n/a	0.0000492	NP Inter (NDs) 1 of 2
Lead (mg/L)	GWC-6	0.016	n/a	8/18/2021	0.001ND	No	225	n/a	n/a	81.78	n/a	n/a	0.0000492	NP Inter (NDs) 1 of 2
Vanadium (mg/L)	GWC-1	0.055	n/a	8/18/2021	0.001ND	No	208	n/a	n/a	76.44	n/a	n/a	0.0000492	NP Inter (NDs) 1 of 2
Vanadium (mg/L)	GWC-2	0.055	n/a	8/18/2021	0.001ND	No	208	n/a	n/a	76.44	n/a	n/a	0.0000492	NP Inter (NDs) 1 of 2
Vanadium (mg/L)	GWC-4A	0.055	n/a	8/18/2021	0.001ND	No	208	n/a	n/a	76.44	n/a	n/a	0.0000492	NP Inter (NDs) 1 of 2
Vanadium (mg/L)	GWC-5	0.055	n/a	8/18/2021	0.001ND	No	208	n/a	n/a	76.44	n/a	n/a	0.0000492	NP Inter (NDs) 1 of 2
Vanadium (mg/L)	GWC-6	0.055	n/a	8/18/2021	0.0013	No	208	n/a	n/a	76.44	n/a	n/a	0.0000492	NP Inter (NDs) 1 of 2
Zinc (mg/L)	GWC-1	0.074	n/a	8/18/2021	0.11	Yes	208	n/a	n/a	26.92	n/a	n/a	0.0000492	NP Inter (normality) 1 of 2
Zinc (mg/L)	GWC-2	0.074	n/a	8/18/2021	0.0081	No	208	n/a	n/a	26.92	n/a	n/a	0.0000492	NP Inter (normality) 1 of 2
Zinc (mg/L)	GWC-4A	0.074	n/a	8/18/2021	0.012	No	208	n/a	n/a	26.92	n/a	n/a	0.0000492	NP Inter (normality) 1 of 2
Zinc (mg/L)	GWC-5	0.074	n/a	8/18/2021	0.035	No	208	n/a	n/a	26.92	n/a	n/a	0.0000492	NP Inter (normality) 1 of 2
Zinc (mg/L)	GWC-6	0.074	n/a	8/18/2021	0.12	Yes	208	n/a	n/a	26.92	n/a	n/a	0.0000492	NP Inter (normality) 1 of 2

Exceeds Limit: GWC-5

Prediction Limit Interwell Non-parametric



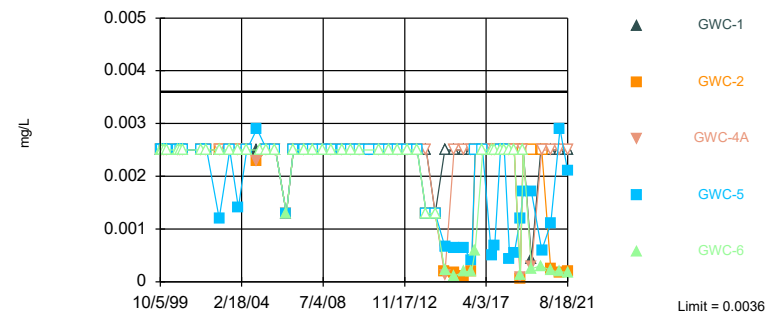
Non-parametric test used in lieu of parametric prediction limit because the Chi Squared normality test showed the data to be non-normal at the 0.01 alpha level. Limit is highest of 225 background values. Annual per-constituent alpha = 0.0004919. Individual comparison alpha = 0.0000492 (1 of 2). Comparing 5 points to limit.

Constituent: Barium Analysis Run 2/17/2022 5:38 PM View: Appendix I
Plant McIntosh Client: Southern Company Data: McIntosh LF 3 CCR

Hollow symbols indicate censored values.

Within Limit

Prediction Limit Interwell Non-parametric



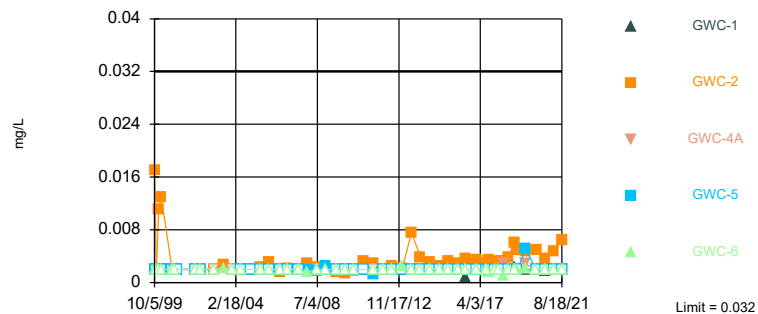
Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 226 background values. 71.68% NDs. Annual per-constituent alpha = 0.0004919. Individual comparison alpha = 0.0000492 (1 of 2). Comparing 5 points to limit.

Constituent: Beryllium Analysis Run 2/17/2022 5:38 PM View: Appendix I
Plant McIntosh Client: Southern Company Data: McIntosh LF 3 CCR

Hollow symbols indicate censored values.

Within Limit

Prediction Limit Interwell Non-parametric



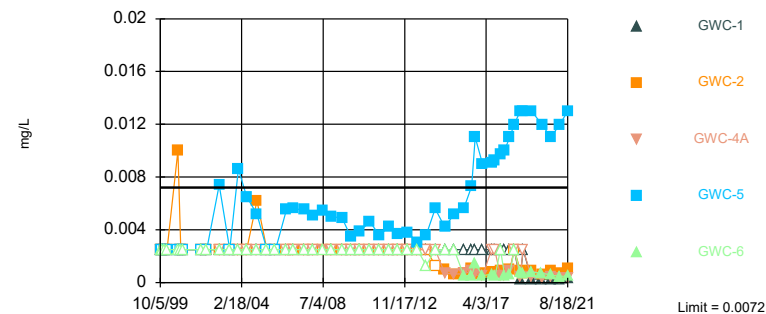
Non-parametric test used in lieu of parametric prediction limit because the Chi Squared normality test showed the data to be non-normal at the 0.01 alpha level. Limit is highest of 224 background values. 49.55% NDs. Annual per-constituent alpha = 0.0004919. Individual comparison alpha = 0.0000492 (1 of 2). Comparing 5 points to limit.

Constituent: Chromium Analysis Run 2/17/2022 5:38 PM View: Appendix I
Plant McIntosh Client: Southern Company Data: McIntosh LF 3 CCR

Hollow symbols indicate censored values.

Exceeds Limit: GWC-5

Prediction Limit Interwell Non-parametric

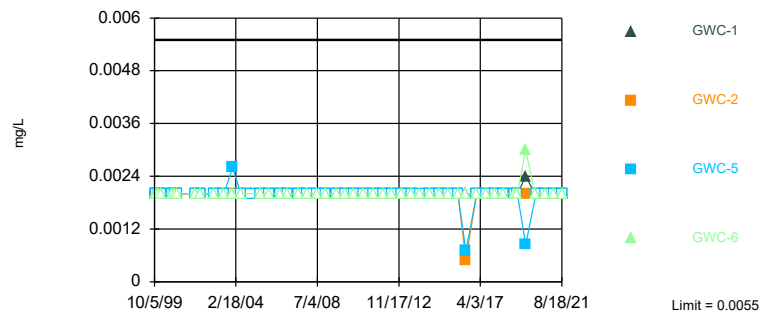


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 224 background values. 54.46% NDs. Annual per-constituent alpha = 0.0004919. Individual comparison alpha = 0.0000492 (1 of 2). Comparing 5 points to limit.

Constituent: Cobalt Analysis Run 2/17/2022 5:38 PM View: Appendix I
Plant McIntosh Client: Southern Company Data: McIntosh LF 3 CCR

Within Limit

Prediction Limit Interwell Non-parametric

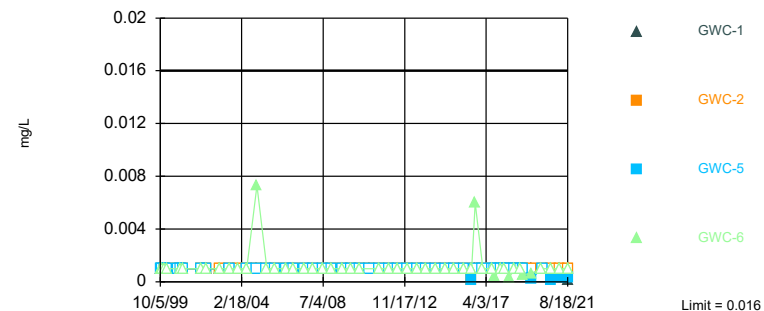


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 205 background values. 82.44% NDs. Annual per-constituent alpha = 0.0004919. Individual comparison alpha = 0.0000492 (1 of 2). Comparing 4 points to limit. Assumes 1 future value.

Constituent: Copper Analysis Run 2/17/2022 5:38 PM View: Appendix I
Plant McIntosh Client: Southern Company Data: McIntosh LF 3 CCR

Within Limit

Prediction Limit Interwell Non-parametric

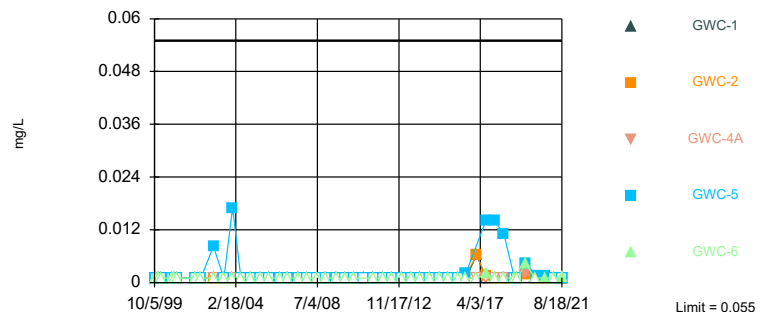


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 225 background values. 81.78% NDs. Annual per-constituent alpha = 0.0004919. Individual comparison alpha = 0.0000492 (1 of 2). Comparing 4 points to limit. Assumes 1 future value.

Constituent: Lead Analysis Run 2/17/2022 5:38 PM View: Appendix I
Plant McIntosh Client: Southern Company Data: McIntosh LF 3 CCR

Within Limit

Prediction Limit Interwell Non-parametric

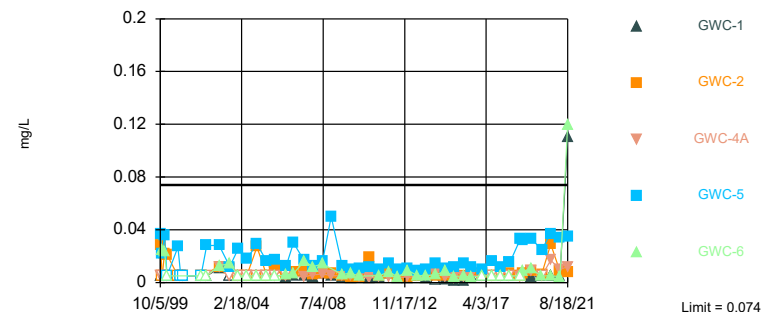


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 208 background values. 76.44% NDs. Annual per-constituent alpha = 0.0004919. Individual comparison alpha = 0.0000492 (1 of 2). Comparing 5 points to limit.

Constituent: Vanadium Analysis Run 2/17/2022 5:38 PM View: Appendix I
Plant McIntosh Client: Southern Company Data: McIntosh LF 3 CCR

Exceeds Limit: GWC-1, GWC-6

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 208 background values. 26.92% NDs. Annual per-constituent alpha = 0.0004919. Individual comparison alpha = 0.0000492 (1 of 2). Comparing 5 points to limit.

Constituent: Zinc Analysis Run 2/17/2022 5:38 PM View: Appendix I
Plant McIntosh Client: Southern Company Data: McIntosh LF 3 CCR

Prediction Limit

Constituent: Barium (mg/L) Analysis Run 2/17/2022 5:39 PM View: Appendix I

Plant McIntosh Client: Southern Company Data: McIntosh LF 3 CCR

	GWA-1A (bg)	GWA-4 (bg)	GWC-1	GWC-2	GWC-4A	GWA-3A (bg)	GWC-5	GWC-6	GWA-5 (bg)
10/5/1999	0.084	0.013	0.096	0.097	0.095	0.031	0.47	0.017	0.1
11/12/1999	0.099	0.017	0.085	0.057	0.063	0.023	0.27	0.031	0.086
12/29/1999	0.18	0.027	0.1	0.084	0.066	0.033	0.19	0.039	0.12
2/17/2000	0.12	0.023	0.072	0.079	0.023	0.026	0.28	0.031	0.13
9/13/2000	0.038	0.022	0.15	0.06	0.056	0.044	0.29	0.043	0.18
11/10/2000	0.065	0.035	0.15	0.062	0.059	0.044	0.24	0.044	0.018
1/4/2001	0.037	0.032	0.15	0.064	0.079	0.043	0.24	0.071	0.23
12/11/2001	0.027	0.032	0.14	0.057	0.049	0.041	0.21	0.042	0.12
4/4/2002	0.027	0.03	0.14	0.06	0.048	0.038	0.21	0.043	0.094
12/6/2002	0.028	0.041	0.14	0.072	0.1	0.044	0.28	0.046	0.33
6/28/2003	0.054	0.035	0.12	0.066	0.036	0.045	0.27	0.038	0.11
12/13/2003	0.027	0.029	0.12	0.063	0.031	0.039	0.38	0.035	0.057
5/28/2004	0.18	0.033	0.12	0.067	0.038	0.042	0.28	0.037	0.035
12/10/2004	0.1	0.037	0.13	0.075	0.041	0.045	0.25	0.043	0.04
6/24/2005	0.045	0.034	0.1	0.071	0.028	0.042	0.23	0.044	0.037
12/13/2005	0.048	0.03	0.096	0.068	0.025	0.043	0.28	0.045	0.039
7/12/2006	0.13	0.03	0.083	0.058	0.033	0.043	0.24	0.037	0.042
12/1/2006	0.012	0.032	0.084	0.063	0.051	0.041	0.019 (o)	0.044	0.044
6/21/2007	0.2	0.03	0.087	0.071	0.052	0.043	0.19	0.037	0.058
12/15/2007	0.14	0.034	0.11	0.068	0.062	0.045	0.18	0.042	0.073
6/21/2008		0.037	0.093		0.065		0.19		
6/22/2008	0.1			0.057		0.05		0.04	0.096
12/6/2008		0.034	0.11	0.058	0.056	0.14			0.094
12/7/2008	0.043						0.25	0.12 (o)	
7/10/2009						0.046			
7/11/2009	0.13	0.037	0.064	0.05	0.059		0.23	0.038	0.12
12/22/2009									0.089
12/23/2009	0.17	0.058	0.052	0.05	0.067	0.049	0.17	0.04	
6/23/2010		0.046	0.051	0.083	0.084	0.043	0.22		0.081
6/24/2010	0.045							0.035	
1/8/2011		0.036	0.052	0.057	0.053	0.047	0.17		0.097
1/9/2011	0.11								
7/10/2011		0.031	0.036	0.046	0.043	0.035	0.13		0.084
7/11/2011	0.022							0.03	
1/19/2012		0.045				0.05			
1/20/2012	0.043		0.065	0.055	0.054		0.15	0.039	0.099
7/12/2012		0.039	0.074	0.045	0.053	0.042	0.13		0.12
7/13/2012	0.05							0.04	
1/21/2013	0.11	0.042	0.066	0.045	0.053	0.048	0.13	0.045	0.095
7/20/2013	0.04	0.054	0.035	0.079	0.052	0.047	0.18	0.043	0.086
1/17/2014	0.082	0.057	0.036	0.084	0.063	0.049	0.24	0.045	0.14
7/11/2014					0.068		0.26		
7/12/2014	0.034	0.042	0.037	0.065		0.043		0.036	0.17
1/15/2015		0.041		0.067		0.05			
1/16/2015	0.029		0.027		0.059		0.19	0.044	0.12
7/15/2015	0.025	0.04	0.031	0.049	0.045	0.044	0.26	0.038	0.12
1/16/2016	0.026	0.04	0.032			0.048	0.21	0.047	0.12
1/17/2016				0.09	0.052				
6/22/2016	0.0374 (D)	0.0453	0.0323	0.0806	0.0528	0.0471 (D)			0.0839
6/23/2016							0.491	0.0393	
8/31/2016		0.041	0.019	0.057	0.037	0.043			0.093
9/1/2016	0.86 (o)						0.47	0.075	

Prediction Limit

Page 2

Constituent: Barium (mg/L) Analysis Run 2/17/2022 5:39 PM View: Appendix I

Plant McIntosh Client: Southern Company Data: McIntosh LF 3 CCR

	GWA-1A (bg)	GWA-4 (bg)	GWC-1	GWC-2	GWC-4A	GWA-3A (bg)	GWC-5	GWC-6	GWA-5 (bg)
1/19/2017		0.052				0.052			0.079
1/23/2017			0.023						
1/24/2017				0.06			0.42		
1/25/2017					0.034				
1/27/2017								0.046	
2/28/2017	0.027								
7/17/2017	0.022								
7/18/2017		0.037				0.046			
7/19/2017			0.013	0.06					0.085
7/20/2017					0.028		0.47	0.045	
9/20/2017	0.023					0.053			
9/21/2017		0.042	0.016	0.063	0.032		0.48		0.1
9/22/2017								0.04	
1/8/2018	0.022								
1/9/2018		0.043	0.016	0.059	0.033	0.05			0.13
1/10/2018							0.68	0.027	
3/27/2018	0.023	0.039				0.054			0.18
3/28/2018			0.014		0.037		0.6		
3/29/2018				0.06				0.044	
7/10/2018	0.024	0.043		0.073	0.065	0.056			0.14 (o)
7/11/2018			0.016				0.64	0.051	
10/8/2018	0.03	0.042							0.11
10/9/2018			0.015	0.057	0.029	0.061	0.56	0.041	
1/30/2019	0.024	0.04	0.018		0.027	0.071			0.079
1/31/2019				0.067			0.45	0.053	
3/27/2019	0.021								0.12
3/28/2019		0.041	0.014	0.064	0.028	0.068	0.45	0.045	
9/11/2019	0.022								
9/12/2019		0.044	0.016	0.06	0.026	0.073	0.59	0.052	0.086
3/10/2020	0.018	0.058				0.082			0.081
3/11/2020			0.027					0.048	
3/31/2020				0.077	0.036		0.67		
4/2/2020						0.088			
9/21/2020	0.023	0.052				0.083			
9/22/2020			0.022	0.061	0.031		0.51	0.051	0.078
3/23/2021	0.023			0.083		0.093			
3/24/2021		0.052	0.023		0.031		0.5	0.044	0.096
8/17/2021	0.025	0.056				0.095			0.094
8/18/2021			0.029	0.062	0.032		0.49	0.047	

Prediction Limit

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Constituent: Barium (mg/L) Analysis Run 2/17/2022 5:39 PM View: Appendix I
Plant McIntosh Client: Southern Company Data: McIntosh LF 3 CCR

GWA-7A (bg) 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
7/20/2013
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
8/31/2016
9/1/2016

Prediction Limit

Page 4

Constituent: Barium (mg/L) Analysis Run 2/17/2022 5:39 PM View: Appendix I
Plant McIntosh Client: Southern Company Data: McIntosh LF 3 CCR

	GWA-7A (bg)	GWA-2B (bg)	GWA-1B (bg)
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	0.14	0.049	
10/9/2018			
1/30/2019	0.1	0.041	
1/31/2019			
3/27/2019			
3/28/2019	0.1	0.035	
9/11/2019			
9/12/2019	0.077	0.049	
3/10/2020		0.047	
3/11/2020	0.067		
3/31/2020			
4/2/2020			
9/21/2020	0.11		
9/22/2020		0.049	
3/23/2021	0.048	0.044	0.021
3/24/2021			
8/17/2021	0.054	0.047	0.022
8/18/2021			

Prediction Limit

Constituent: Beryllium (mg/L) Analysis Run 2/17/2022 5:39 PM View: Appendix I

Plant McIntosh Client: Southern Company Data: McIntosh LF 3 CCR

	GWA-1A (bg)	GWC-1	GWA-4 (bg)	GWC-2	GWC-4A	GWA-3A (bg)	GWC-5	GWC-6	GWA-5 (bg)
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	<0.0025	<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	<0.0025	<0.0025	<0.0025	<0.0025	0.0012	<0.0025	0.0018
6/28/2003	<0.0025	<0.0025	<0.0025	<0.0025	<0.0025	<0.0025	<0.0025	<0.0025	0.0036
12/13/2003	<0.0025	<0.0025	<0.0025	<0.0025	<0.0025	<0.0025	0.0014	<0.0025	0.0019
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	0.0025	0.0023	0.0023	0.0023	0.0024	0.0029	0.0058 (o)	0.0035
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	0.0013	<0.0025	0.0013	0.0013	<0.0025	0.0013	0.0013	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
12/7/2008	<0.0025						<0.0025	<0.0025	
7/10/2009						<0.0025			
7/11/2009	<0.0025	<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			
1/20/2012	<0.0025	<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
7/20/2013	<0.0025	<0.0025	<0.0025	<0.0025	<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	<0.0025	<0.0013 (J)	<0.0013 (J)	<0.0013 (J)
7/11/2014					<0.0013 (J)		<0.0013 (J)		
7/12/2014	<0.0013 (J)	<0.0013 (J)	<0.0013 (J)	<0.0013 (J)		<0.0025		<0.0013 (J)	<0.0013 (J)
1/15/2015			0.0002 (J)	0.00019 (J)		0.00039 (J)			
1/16/2015	0.00022 (J)	<0.0025			0.00012 (J)		0.00067 (J)	0.00021 (J)	0.00043 (J)
7/15/2015	0.00015 (J)	<0.0025	0.00018 (J)	0.00018 (J)	<0.0025	0.00031 (J)	0.00065 (J)	0.00011 (J)	0.00064 (J)
1/16/2016	0.00011 (J)	<0.0025	0.00013 (J)			0.00034 (J)	0.00065 (J)	0.00019 (J)	0.00039 (J)
1/17/2016				0.00011 (J)	<0.0025				
6/22/2016	0.00025 (JD)	<0.0025	0.0001 (J)	0.0002 (J)	<0.0025	0.0004 (J)			0.0002 (J)
6/23/2016							0.0004 (J)	0.0002 (J)	
8/31/2016		<0.0025	<0.0025	<0.0025	<0.0025	0.00035 (J)			<0.0025

Prediction Limit

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Constituent: Beryllium (mg/L) Analysis Run 2/17/2022 5:39 PM View: Appendix I

Plant McIntosh Client: Southern Company Data: McIntosh LF 3 CCR

	GWA-1A (bg)	GWC-1	GWA-4 (bg)	GWC-2	GWC-4A	GWA-3A (bg)	GWC-5	GWC-6	GWA-5 (bg)
9/1/2016	0.0084 (o)								
1/19/2017			<0.0025			<0.0025	<0.0025	0.0006 (J)	<0.0025
1/23/2017		<0.0025							
1/24/2017				<0.0025			<0.0025		
1/25/2017					<0.0025				
1/27/2017								<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					<0.0025
7/20/2017					<0.0025		0.00049 (J)	<0.0025	
9/20/2017	<0.0025					0.00039 (J)			
9/21/2017		<0.0025	<0.0025	<0.0025	<0.0025		0.00068 (J)		<0.0025
9/22/2017								<0.0025	
1/8/2018	<0.0025								
1/9/2018		<0.0025	<0.0025	<0.0025	<0.0025	<0.0025			<0.0025
1/10/2018							<0.0025	<0.0025	
3/27/2018	<0.0025		<0.0025			<0.0025			<0.0025
3/28/2018		<0.0025			<0.0025		<0.0025		
3/29/2018				<0.0025				<0.0025	
7/10/2018	<0.0025		<0.0025	<0.0025	<0.0025	0.00038 (J)			<0.0025
7/11/2018		<0.0025					0.00043 (J)	<0.0025	
10/8/2018	<0.0025		<0.0025						<0.0025
10/9/2018		<0.0025		<0.0025	<0.0025	<0.0025	0.00054 (J)	<0.0025	
1/30/2019	0.00026 (J)	<0.0025	0.00019 (J)		7E-05 (J)	0.00051 (J)			0.00024 (J)
1/31/2019				6.5E-05 (J)			0.0012 (J)	0.00012 (J)	
3/27/2019	<0.0025								<0.0025
3/28/2019		<0.0025	<0.0025	<0.0025	<0.0025	0.00046 (J)	0.0017 (J)	<0.0025	
9/11/2019	0.00019 (J)								
9/12/2019		0.00043 (J)	<0.0025	<0.0025	0.00028 (J)	0.00084 (J)	0.0017	0.00025 (J)	0.00036 (J)
3/10/2020	0.00018 (J)		0.00029 (J)			0.00058 (J)			0.00028 (J)
3/11/2020		<0.0025						0.0003 (J)	
3/31/2020				<0.0025	<0.0025		0.0006 (J)		
4/2/2020						0.00062 (J)			
9/21/2020	0.0002 (J)		<0.0025			0.00054 (J)			
9/22/2020		<0.0025		0.00025 (J)	<0.0025		0.0011 (J)	0.00021 (J)	<0.0025
3/23/2021	0.00021 (J)			0.00018 (J)		0.00063 (J)			
3/24/2021		<0.0025	0.00019 (J)		<0.0025		0.0029	0.00019 (J)	0.00026 (J)
8/17/2021	<0.0025		<0.0025			0.00049 (J)			0.00018 (J)
8/18/2021		<0.0025		0.0002 (J)	<0.0025		0.0021 (J)	0.00018 (J)	

Prediction Limit

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Constituent: Beryllium (mg/L) Analysis Run 2/17/2022 5:39 PM View: Appendix I
Plant McIntosh Client: Southern Company Data: McIntosh LF 3 CCR

GWA-7A (bg) 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
2/5/2005
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
7/20/2013
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
8/31/2016

Prediction Limit

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Constituent: Beryllium (mg/L) Analysis Run 2/17/2022 5:39 PM View: Appendix I
Plant McIntosh Client: Southern Company Data: McIntosh LF 3 CCR

	GWA-7A (bg)	GWA-2B (bg)	GWA-1B (bg)
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	<0.0025	0.0014 (J)	
10/9/2018			
1/30/2019	0.00047 (J)	0.0019 (J)	
1/31/2019			
3/27/2019			
3/28/2019	0.00034 (J)	0.0017 (J)	
9/11/2019			
9/12/2019	0.00097 (J)	0.00088 (J)	
3/10/2020		0.00087 (J)	
3/11/2020	0.00078 (J)		
3/31/2020			
4/2/2020			
9/21/2020	<0.0025		
9/22/2020		0.00042 (J)	
3/23/2021	0.00066 (J)	0.00071 (J)	<0.0025
3/24/2021			
8/17/2021	0.00047 (J)	0.00068 (J)	<0.0025
8/18/2021			

Prediction Limit

Constituent: Chromium (mg/L) Analysis Run 2/17/2022 5:39 PM View: Appendix I

Plant McIntosh Client: Southern Company Data: McIntosh LF 3 CCR

	GWA-1A (bg)	GWA-5 (bg)	GWC-1	GWA-3A (bg)	GWC-2	GWC-4A	GWC-5	GWC-6	GWA-4 (bg)
10/5/1999	0.023	<0.002	<0.002	<0.002	0.017	<0.002	<0.002	<0.002	<0.002
11/12/1999	0.03	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002
12/29/1999	0.059 (o)	<0.002	<0.002	<0.002	0.011	<0.002	<0.002	<0.002	<0.002
2/17/2000	0.048 (o)	<0.002	<0.002	<0.002	0.013	<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	0.018	<0.002	<0.002	<0.002	<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	<0.002	0.016 (o)	<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	0.0046	0.027	<0.002	<0.002	<0.002	<0.002	0.008 (o)	<0.002	0.0037
6/28/2003	0.0082	0.0051	0.007 (o)	0.0053	0.0027	0.061 (o)	0.021 (o)	0.0021	0.0039
12/13/2003	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	0.011 (o)	<0.002	<0.002
5/28/2004	0.016	0.0031	<0.002	0.0027	<0.002	<0.002	<0.002	<0.002	<0.002
12/10/2004	0.0087	0.0067	<0.002	0.004	0.74 (o)	0.0059 (o)	<0.002	0.0046 (o)	<0.002
2/5/2005					<0.002				
6/24/2005	0.0069	<0.002	<0.002	0.0031	0.0023	<0.002	<0.002	<0.002	<0.002
12/13/2005	0.0075	<0.002	<0.002	0.0031	0.0031	<0.002	<0.002	<0.002	<0.002
7/12/2006	0.027	<0.002	<0.002	0.0025	0.0016	<0.002	<0.002	<0.002	0.023
12/1/2006	<0.002	<0.002	<0.002	0.0037	0.0022	<0.002	<0.002	<0.002	0.0017
6/21/2007	0.012	0.0021	<0.002	0.0053	0.002	<0.002	<0.002	<0.002	0.0027
12/15/2007	0.0085	0.0022	<0.002	0.0044	0.0029	<0.002	0.002	0.0016	0.0026
6/21/2008			<0.002			<0.002	0.0017		0.0021
6/22/2008	0.021	0.0019		0.0059	0.0023			<0.002	
12/6/2008		<0.002	<0.002	0.0031	0.0023	<0.002			<0.002
12/7/2008	0.01						0.0025	<0.002	
7/10/2009				0.0029					
7/11/2009	0.0073	<0.002	<0.002		0.0015	<0.002	<0.002	<0.002	<0.002
12/22/2009		0.0032							
12/23/2009	0.013		<0.002	0.0025	0.0014	<0.002	<0.002	<0.002	<0.002
6/23/2010		<0.002	<0.002	0.0013	0.0018	<0.002	<0.002		<0.002
6/24/2010	0.0076							<0.002	
1/8/2011		0.0019	<0.002	0.0017	0.0033	<0.002	<0.002		<0.002
1/9/2011	0.023								
7/10/2011		<0.002	<0.002	<0.002	0.0028	<0.002	0.0013		<0.002
7/11/2011	0.0042							<0.002	
1/19/2012				<0.002					<0.002
1/20/2012	0.009	<0.002	<0.002		<0.002	<0.002	<0.002	<0.002	
7/12/2012		0.0044	<0.002	<0.002	0.0025	<0.002	<0.002		<0.002
7/13/2012	0.013							<0.002	
1/21/2013	0.032	<0.002	<0.002	0.0014	0.0022	<0.002	<0.002	0.0025	<0.002
7/20/2013	0.01	0.0017	<0.002	0.0021	0.0075	<0.002	<0.002	<0.002	<0.002
1/17/2014	0.024	<0.0013 (J)	<0.002	0.0023	0.0039	<0.002	<0.002	<0.002	<0.002
7/11/2014						<0.002	<0.002		
7/12/2014	0.0069	0.0014	<0.002	<0.0013 (J)	0.0031			<0.002	<0.002
1/15/2015				<0.002	0.0026				<0.002
1/16/2015	0.0064	0.0011 (J)	<0.002			<0.002	<0.002	<0.002	
7/15/2015	0.0051	0.0016	<0.002	<0.002	0.0032	<0.002	<0.002	<0.002	<0.002
1/16/2016	0.0066	<0.002	<0.002	0.0025			<0.002	<0.002	<0.002
1/17/2016					0.0029	<0.002			
6/22/2016	0.00815 (D)	0.002 (J)	0.0008 (J)	0.00255 (JD)	0.0036 (J)	<0.002			0.0005 (J)
6/23/2016							<0.002	<0.002	
8/31/2016		0.002 (J)	<0.002	0.0042	0.0027	<0.002			<0.002

Prediction Limit

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Constituent: Chromium (mg/L) Analysis Run 2/17/2022 5:40 PM View: Appendix I

Plant McIntosh Client: Southern Company Data: McIntosh LF 3 CCR

	GWA-1A (bg)	GWA-5 (bg)	GWC-1	GWA-3A (bg)	GWC-2	GWC-4A	GWC-5	GWC-6	GWA-4 (bg)
9/1/2016	0.12 (o)						<0.002	0.0069 (o)	
1/19/2017		0.002 (J)		0.0039					<0.002
1/23/2017			<0.002						
1/24/2017					0.0034		<0.002		
1/25/2017						<0.002 (D)			
1/27/2017								<0.002 (D)	
2/28/2017	0.0012 (J)								
7/17/2017	0.003								
7/18/2017				0.0018 (J)					<0.002
7/19/2017		0.0017 (J)	<0.002		0.0028				
7/20/2017						<0.002	<0.002	<0.002	
9/20/2017	0.0025			0.0026					
9/21/2017		0.0021 (J)	<0.002		0.0035	<0.002	<0.002		<0.002
9/22/2017								0.0015 (J)	
1/8/2018	0.0038								
1/9/2018		0.0019 (J)	<0.002	0.0038	0.003	<0.002			0.0087
1/10/2018							<0.002	<0.002	
3/27/2018	0.0044	<0.002		0.0037					<0.002
3/28/2018			<0.002			0.0019 (J)	<0.002		
3/29/2018					0.0032			<0.002	
7/10/2018	0.0045	0.0012 (J)		0.0022 (J)	0.0033	0.0029			<0.002
7/11/2018			<0.002				<0.002	0.0011 (J)	
10/8/2018	0.0054	0.0015 (J)							<0.002
10/9/2018			<0.002	0.0047	0.0039	<0.002	<0.002	<0.002	
1/30/2019	0.0061	0.0014 (J)	0.0024 (J)	0.005		<0.002			0.00088 (J)
1/31/2019					0.0061		<0.002	<0.002	
3/27/2019	0.0044	<0.002							
3/28/2019			<0.002	0.0037	0.0049	<0.002	<0.002	0.0019 (J)	<0.002
9/11/2019	0.0076								
9/12/2019		0.0032	<0.002	<0.002	0.0048	0.0028	0.0051	0.0022	<0.002
3/10/2020	0.0041	0.0031		<0.002					<0.002
3/11/2020			<0.002					<0.002	
3/31/2020					0.005	<0.002	<0.002		
4/2/2020				0.0031					
9/21/2020	0.0049			<0.002					<0.002
9/22/2020		0.0017 (J)	0.0017 (J)		0.0036	<0.002	<0.002	<0.002	
3/23/2021	0.0047			0.0022	0.0048				
3/24/2021		<0.002	<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		0.0064	<0.002	<0.002	<0.002	

Prediction Limit

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Constituent: Chromium (mg/L) Analysis Run 2/17/2022 5:40 PM View: Appendix I
Plant McIntosh Client: Southern Company Data: McIntosh LF 3 CCR

GWA-7A (bg) 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
2/5/2005
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
7/20/2013
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
8/31/2016

Prediction Limit

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Constituent: Chromium (mg/L) Analysis Run 2/17/2022 5:40 PM View: Appendix I

Plant McIntosh Client: Southern Company Data: McIntosh LF 3 CCR

	GWA-7A (bg)	GWA-2B (bg)	GWA-1B (bg)
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	<0.002	<0.002	
10/9/2018			
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	<0.002	<0.002	
3/10/2020		<0.002	
3/11/2020	<0.002		
3/31/2020			
4/2/2020			
9/21/2020	<0.002		
9/22/2020		<0.002	
3/23/2021	<0.002	<0.002	<0.002
3/24/2021			
8/17/2021	<0.002	<0.002	<0.002
8/18/2021			

Prediction Limit

Constituent: Cobalt (mg/L) Analysis Run 2/17/2022 5:40 PM View: Appendix I

Plant McIntosh Client: Southern Company Data: McIntosh LF 3 CCR

	GWA-1A (bg)	GWC-1	GWA-4 (bg)	GWC-2	GWC-4A	GWA-3A (bg)	GWC-5	GWC-6	GWA-5 (bg)
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	0.01	<0.0025	<0.0025	<0.0025	<0.0025	<0.0025
11/10/2000	<0.0025	<0.0025	<0.0025	<0.0025	<0.0025	<0.0025	<0.0025	<0.0025	<0.0025
1/4/2001	<0.0025	<0.0025	<0.0025	<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	<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	<0.0025	<0.0025	<0.0025	<0.0025	0.0074	<0.0025	<0.0025
6/28/2003	<0.0025	<0.0025	<0.0025	<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	0.0086	<0.0025	<0.0025
5/28/2004	<0.0025	<0.0025	<0.0025	<0.0025	<0.0025	<0.0025	0.0065	<0.0025	<0.0025
12/10/2004	<0.0025	<0.0025	<0.0025	0.0062	<0.0025	<0.0025	0.0052	<0.0025	0.007
6/24/2005	<0.0025	<0.0025	<0.0025	<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	<0.0025	<0.0025	<0.0025	0.0062
7/12/2006	0.0032	<0.0025	<0.0025	<0.0025	<0.0025	<0.0025	0.0055	<0.0025	0.0048
12/1/2006	0.012 (o)	<0.0025	<0.0025	<0.0025	<0.0025	<0.0025	0.0056	<0.0025	0.0032
6/21/2007	<0.0025	<0.0025	<0.0025	<0.0025	<0.0025	0.0025	0.0055	<0.0025	0.0037
12/15/2007	<0.0025	<0.0025	<0.0025	<0.0025	<0.0025	<0.0025	0.0051	<0.0025	<0.0025
6/21/2008		0.0048 (o)	<0.0025		0.0025		0.0054		
6/22/2008	0.0031			<0.0025		<0.0025		<0.0025	0.0025
12/6/2008		<0.0025	<0.0025	<0.0025	<0.0025	<0.0025			0.0025
12/7/2008	<0.0025						0.005	<0.0025	
7/10/2009						<0.0025			
7/11/2009	<0.0025	<0.0025	<0.0025	<0.0025	<0.0025		0.0049	<0.0025	<0.0025
12/22/2009									0.0025
12/23/2009	<0.0025	<0.0025	<0.0025	<0.0025	<0.0025	<0.0025	0.0035	<0.0025	
6/23/2010		<0.0025	<0.0025	<0.0025	<0.0025	<0.0025	0.0039		<0.0025
6/24/2010	<0.0025							<0.0025	
1/8/2011		<0.0025	<0.0025	<0.0025	<0.0025	<0.0025	0.0046		0.0026
1/9/2011	0.0031							<0.0025	
7/10/2011		<0.0025	<0.0025	<0.0025	<0.0025	<0.0025	0.0036		<0.0025
7/11/2011	<0.0025							<0.0025	
1/19/2012			<0.0025			<0.0025			
1/20/2012	<0.0025	<0.0025		<0.0025	<0.0025		0.0042	<0.0025	<0.0025
7/12/2012		<0.0025	<0.0025	<0.0025	<0.0025	<0.0025	0.0037		0.002
7/13/2012	0.0015							<0.0025	
1/21/2013	0.0035	<0.0025	<0.0025	<0.0025	<0.0025	<0.0025	0.0038	<0.0025	0.0014
7/20/2013	<0.0025	<0.0025	<0.0025	<0.0025	<0.0025	<0.0025	0.003	<0.0025	<0.0025
1/17/2014	0.0027	<0.0025	<0.0013 (J)	<0.0025	<0.0025	<0.0013 (J)	0.0036	<0.0013 (J)	0.0019
7/11/2014					<0.0025		0.0056		
7/12/2014	<0.0013 (J)	<0.0025	<0.0013 (J)	<0.0013 (J)		<0.0013 (J)		<0.0025	0.0026
1/15/2015			0.00084 (J)	0.00096 (J)		0.00086 (J)			
1/16/2015	<0.0025	<0.0025			0.00071 (J)		0.0042	<0.0025	0.0021
7/15/2015	<0.0025	<0.0025	0.00083 (J)	0.0006 (J)	0.00064 (J)	0.00087 (J)	0.0052	<0.0025	0.0023
1/16/2016	0.00059 (J)	<0.0025	0.00092 (J)			0.0011 (J)	0.0056	0.00055 (J)	0.002
1/17/2016				0.00069 (J)	0.00066 (J)				
6/22/2016	0.00085 (JD)	<0.0025	0.0005 (J)	0.0011 (J)	0.0009 (J)	0.0009 (J)			0.0007 (J)
6/23/2016							0.0073 (J)	0.0005 (J)	
8/31/2016		<0.0025	0.00055 (J)	0.0006 (J)	0.0006 (J)	0.00095 (J)			0.001 (J)
9/1/2016	0.023 (o)						0.011	0.0014 (J)	

Prediction Limit

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Constituent: Cobalt (mg/L) Analysis Run 2/17/2022 5:40 PM View: Appendix I

Plant McIntosh Client: Southern Company Data: McIntosh LF 3 CCR

	GWA-1A (bg)	GWC-1	GWA-4 (bg)	GWC-2	GWC-4A	GWA-3A (bg)	GWC-5	GWC-6	GWA-5 (bg)
1/19/2017			0.00041 (J)			0.00087 (J)			0.00046 (J)
1/23/2017		<0.0025							
1/24/2017				0.00067 (J)			0.009		
1/25/2017					0.00047 (J)				
1/27/2017								0.00052 (J)	
2/28/2017	0.00048 (J)								
7/17/2017	<0.0025								
7/18/2017			0.0007 (J)			0.001 (J)			
7/19/2017		<0.0025		0.00079 (J)					0.00069 (J)
7/20/2017					<0.0025		0.0091	0.00062 (J)	
9/20/2017	<0.0025					0.0011 (J)			
9/21/2017		<0.0025	0.00073 (J)	0.00077 (J)	<0.0025		0.0093		0.00073 (J)
9/22/2017								0.00048 (J)	
1/8/2018	<0.0025								
1/9/2018		<0.0025	0.0012 (J)	0.00092 (J)	0.00048 (J)	0.0011 (J)			0.0014 (J)
1/10/2018							0.0097	<0.0025	
3/27/2018	<0.0025		0.00081 (J)			0.0011 (J)			0.0019 (J)
3/28/2018		<0.0025			0.00048 (J)		0.01		
3/29/2018				0.0008 (J)				0.00052 (J)	
7/10/2018	<0.0025		0.00086 (J)	0.00097 (J)	0.00084 (J)	0.0012 (J)			0.0015 (J)
7/11/2018		<0.0025					0.011	0.00064 (J)	
10/8/2018	<0.0025		<0.0025						<0.0025
10/9/2018		<0.0025		<0.0025	<0.0025	<0.0025	0.012	<0.0025	
1/30/2019	0.00038 (J)	0.00023 (J)	0.00092 (J)		0.00038 (J)	0.0014 (J)			0.00076 (J)
1/31/2019				0.00092 (J)			0.013	0.00076 (J)	
3/27/2019	<0.0025								0.0012 (J)
3/28/2019		<0.0025	0.00089 (J)	0.00072 (J)	<0.0025	0.0014 (J)	0.013	0.0007 (J)	
9/11/2019	0.00032 (J)								
9/12/2019		0.00027 (J)	0.00091	0.0009	0.00044 (J)	0.0015	0.013	0.00077	0.00074
3/10/2020	0.00028 (J)		0.0009			0.0019			0.00099
3/11/2020		0.00026 (J)						0.00073	
3/31/2020				0.00061 (J)	0.00033 (J)		0.012		
4/2/2020						0.0017 (J)			
9/21/2020	0.0003 (J)		0.00059 (J)			0.0016 (J)			
9/22/2020		0.00021 (J)		0.00092 (J)	0.00042 (J)		0.011	0.00058 (J)	0.00064 (J)
3/23/2021	0.00028 (J)			0.00069 (J)		0.0017 (J)			
3/24/2021		0.0002 (J)	0.00069 (J)		0.00037 (J)		0.012	0.00046 (J)	0.00077 (J)
8/17/2021	0.00032 (J)		0.00096 (J)			0.002 (J)			0.00085 (J)
8/18/2021		0.00031 (J)		0.0011 (J)	0.00034 (J)		0.013	0.0005 (J)	

Prediction Limit

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Constituent: Cobalt (mg/L) Analysis Run 2/17/2022 5:40 PM View: Appendix I

Plant McIntosh Client: Southern Company Data: McIntosh LF 3 CCR

GWA-7A (bg) 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
7/20/2013
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
8/31/2016
9/1/2016

Prediction Limit

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Constituent: Cobalt (mg/L) Analysis Run 2/17/2022 5:40 PM View: Appendix I
Plant McIntosh Client: Southern Company Data: McIntosh LF 3 CCR

	GWA-7A (bg)	GWA-2B (bg)	GWA-1B (bg)
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	0.0055	0.0051	
10/9/2018			
1/30/2019	0.0047	0.0044	
1/31/2019			
3/27/2019			
3/28/2019	0.0045	0.0046	
9/11/2019			
9/12/2019	0.0043	0.0023	
3/10/2020		0.003	
3/11/2020	0.0056		
3/31/2020			
4/2/2020			
9/21/2020	0.0025		
9/22/2020		<0.0025	
3/23/2021	0.003	0.00096 (J)	0.00019 (J)
3/24/2021			
8/17/2021	0.0026	0.00016 (J)	0.00025 (J)
8/18/2021			

Prediction Limit

Constituent: Copper (mg/L) Analysis Run 2/17/2022 5:40 PM View: Appendix I

Plant McIntosh Client: Southern Company Data: McIntosh LF 3 CCR

	GWA-1A (bg)	GWC-1	GWA-5 (bg)	GWC-5	GWA-4 (bg)	GWC-6	GWA-3A (bg)	GWC-2	GWA-7A (bg)
10/5/1999	<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	
12/29/1999	<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	
9/13/2000	<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	
1/4/2001	<0.002	<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	
4/4/2002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	
12/6/2002	<0.002	<0.002	0.0089 (o)	<0.002	<0.002	<0.002	<0.002	<0.002	
6/28/2003	<0.002	<0.002	0.019 (o)	<0.002	<0.002	<0.002	<0.002	<0.002	
12/13/2003	<0.002	<0.002	0.0067 (o)	0.0026	<0.002	<0.002	<0.002	<0.002	
5/28/2004	0.0052	<0.002	0.0057 (o)	<0.002	<0.002	<0.002	<0.002	<0.002	
12/10/2004	<0.002	<0.002	0.0027	<0.002	<0.002	0.0044 (o)	<0.002	0.11 (o)	
6/24/2005	<0.002	<0.002	0.0038	<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	<0.002	<0.002	
7/12/2006	0.0055	0.0047 (o)	0.0033	<0.002	<0.002	<0.002	<0.002	<0.002	
12/1/2006	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	
6/21/2007	0.0032	<0.002	0.0035	<0.002	<0.002	<0.002	<0.002	<0.002	
12/15/2007	<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				
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	
12/7/2008	<0.002			<0.002		<0.002			
7/10/2009							<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	
6/23/2010		<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	
1/9/2011	0.004					<0.002			
7/10/2011		<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		
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	
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	
7/20/2013	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	
1/17/2014	<0.005 (J)	<0.002	<0.005 (J)	<0.002	<0.002	<0.002	<0.002	0.0065 (o)	
7/11/2014				<0.002					
7/12/2014	<0.005 (J)	<0.002	<0.002		<0.002	<0.002	<0.002	<0.002	
1/15/2015					<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	
1/16/2016	<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	0.001		<0.002		0.00205 (JD)	0.0005 (J)	
6/23/2016				0.0007 (J)		<0.002			
1/19/2017			<0.002		<0.002		<0.002		
1/23/2017		<0.002							

Prediction Limit

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Constituent: Copper (mg/L) Analysis Run 2/17/2022 5:40 PM View: Appendix I

Plant McIntosh Client: Southern Company Data: McIntosh LF 3 CCR

	GWA-1A (bg)	GWC-1	GWA-5 (bg)	GWC-5	GWA-4 (bg)	GWC-6	GWA-3A (bg)	GWC-2	GWA-7A (bg)
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	
7/20/2017				<0.002		<0.002			
1/8/2018	<0.002								
1/9/2018		<0.002	<0.002		0.0025		<0.002	<0.002	
1/10/2018				<0.002		<0.002			
7/10/2018	<0.002		<0.002		<0.002		<0.002	<0.002	
7/11/2018		<0.002		<0.002		<0.002			
1/30/2019	<0.002	<0.002	<0.002		<0.002		<0.002		0.0018 (J)
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		0.0024	0.0011 (J)	0.00084 (J)	0.0022	0.003	0.0024	0.002	0.0041
3/10/2020	<0.002		0.0019 (J)		<0.002		0.00082 (J)		
3/11/2020		<0.002				<0.002			0.0032
3/31/2020				<0.002				<0.002	
4/2/2020							0.0019 (J)		
9/21/2020	<0.002				<0.002		<0.002		0.0018 (J)
9/22/2020		<0.002	0.0013 (J)	<0.002		<0.002		<0.002	
3/23/2021	<0.002						<0.002	<0.002	0.0027
3/24/2021		<0.002	0.00077 (J)	<0.002	<0.002	<0.002			
8/17/2021	<0.002		<0.002		<0.002		<0.002		0.0025
8/18/2021		<0.002		<0.002		<0.002		<0.002	

Prediction Limit

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Constituent: Copper (mg/L) Analysis Run 2/17/2022 5:40 PM View: Appendix I
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
7/20/2013
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
1/19/2017
1/23/2017

Prediction Limit

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Constituent: Copper (mg/L) Analysis Run 2/17/2022 5:40 PM View: Appendix I
Plant McIntosh Client: Southern Company Data: McIntosh LF 3 CCR

	GWA-2B (bg)	GWA-1B (bg)
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		

Prediction Limit

Constituent: Lead (mg/L) Analysis Run 2/17/2022 5:40 PM View: Appendix I

Plant McIntosh Client: Southern Company Data: McIntosh LF 3 CCR

	GWA-1A (bg)	GWC-5	GWC-1	GWA-5 (bg)	GWA-4 (bg)	GWA-3A (bg)	GWC-6	GWC-2	GWA-2B (bg)
10/5/1999	0.007	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	0.0054 (o)	
11/12/1999	0.0063 (o)	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	
12/29/1999	0.016	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	
2/17/2000	<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	<0.001	<0.001	<0.001	0.079 (o)	<0.001	
11/10/2000	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	
1/4/2001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	
12/11/2001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	
4/4/2002	<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	0.011	<0.001	<0.001	<0.001	<0.001	
6/28/2003	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	
12/13/2003	<0.001	0.018 (o)	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	
5/28/2004	0.015	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	
12/10/2004	0.01	<0.001	<0.001	<0.001	<0.001	<0.001	0.0073	<0.001	
6/24/2005	<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	
7/12/2006	0.013	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	
12/1/2006	<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	
12/15/2007	<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				
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	
12/7/2008	<0.001	<0.001					<0.001		
7/10/2009						<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	
6/23/2010		<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	
1/9/2011	<0.001								
7/10/2011		<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			
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	
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	
7/20/2013	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<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	
1/15/2015					<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	
1/16/2016	<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)		<0.001	0.001 (J)	0.0003 (J)	0.00025 (JD)		0.0001 (J)	
6/23/2016		0.0001 (J)					<0.001		
8/31/2016			<0.001	0.00099 (J)	<0.001	<0.001		<0.001	
9/1/2016	0.082 (o)	<0.001					0.006		

Prediction Limit

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Constituent: Lead (mg/L) Analysis Run 2/17/2022 5:40 PM View: Appendix I

Plant McIntosh Client: Southern Company Data: McIntosh LF 3 CCR

	GWA-1A (bg)	GWC-5	GWC-1	GWA-5 (bg)	GWA-4 (bg)	GWA-3A (bg)	GWC-6	GWC-2	GWA-2B (bg)
1/19/2017				0.001 (J)	<0.001	<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			<0.001	0.00081 (J)				<0.001	
7/20/2017		<0.001					<0.001		
9/20/2017	0.00035 (J)					<0.001			
9/21/2017		<0.001	0.004 (o)	0.00086 (J)	0.0076			0.0014 (o)	
9/22/2017							0.00042 (J)		
1/8/2018	<0.001								
1/9/2018			<0.001	0.00059 (J)	0.0023	<0.001		<0.001	
1/10/2018		<0.001					<0.001		
3/27/2018	<0.001			<0.001	<0.001	<0.001			
3/28/2018		<0.001	<0.001						
3/29/2018							<0.001	<0.001	
7/10/2018	<0.001			0.00045 (J)	<0.001	<0.001		<0.001	
7/11/2018		<0.001	<0.001				0.00037 (J)		
10/8/2018	<0.001			<0.001	<0.001				<0.001
10/9/2018		<0.001	<0.001			<0.001	<0.001	<0.001	
1/30/2019	0.00021 (J)		<0.001	0.00064 (J)	0.00013 (J)	0.00034 (J)			0.00028 (J)
1/31/2019		<0.001					<0.001	<0.001	
3/27/2019	<0.001			0.0012 (J)					
3/28/2019		<0.001	<0.001		<0.001	0.00038 (J)	0.00052 (J)	<0.001	<0.001
9/11/2019	<0.001								
9/12/2019		0.00024 (J)	<0.001	0.00082 (J)	<0.001	<0.001	0.00065 (J)	<0.001	<0.001
3/10/2020	0.00015 (J)			0.0022	0.00031 (J)	0.00013 (J)			<0.001
3/11/2020			<0.001				<0.001		
3/31/2020		<0.001						<0.001	
4/2/2020						0.00062 (J)			
9/21/2020	<0.001				0.00025 (J)	<0.001			
9/22/2020		0.00013 (J)	<0.001	0.0012			<0.001	<0.001	<0.001
3/23/2021	0.00017 (J)					0.00029 (J)		<0.001	<0.001
3/24/2021		0.00034 (J)	<0.001	0.00066 (J)	0.00021 (J)		<0.001		
8/17/2021	<0.001			0.00044 (J)	<0.001	0.00015 (J)			0.00073 (J)
8/18/2021		0.00032 (J)	0.00015 (J)				<0.001	<0.001	

Prediction Limit

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Constituent: Lead (mg/L) Analysis Run 2/17/2022 5:40 PM View: Appendix I
Plant McIntosh Client: Southern Company Data: McIntosh LF 3 CCR

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
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
7/20/2013
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
8/31/2016
9/1/2016

Prediction Limit

Constituent: Lead (mg/L) Analysis Run 2/17/2022 5:40 PM View: Appendix I
Plant McIntosh Client: Southern Company Data: McIntosh LF 3 CCR

	GWA-7A (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		
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	<0.001	
1/31/2019		
3/27/2019		
3/28/2019	<0.001	
9/11/2019		
9/12/2019	<0.001	
3/10/2020		
3/11/2020	<0.001	
3/31/2020		
4/2/2020		
9/21/2020	<0.001	
9/22/2020		
3/23/2021	<0.001	<0.001
3/24/2021		
8/17/2021	<0.001	<0.001
8/18/2021		

Prediction Limit

Constituent: Vanadium (mg/L) Analysis Run 2/17/2022 5:40 PM View: Appendix I

Plant McIntosh Client: Southern Company Data: McIntosh LF 3 CCR

	GWA-1A (bg)	GWA-4 (bg)	GWC-1	GWC-4A	GWA-3A (bg)	GWC-5	GWC-6	GWA-5 (bg)	GWC-2
10/5/1999	0.02	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	0.015 (o)
11/12/1999	0.027	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
12/29/1999	0.055	<0.001	<0.001	<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	<0.001
9/13/2000	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
11/10/2000	0.014	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
1/4/2001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
12/11/2001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<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	<0.001	<0.001	<0.001	<0.001	0.0082	<0.001	0.03	<0.001
6/28/2003	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
12/13/2003	<0.001	<0.001	<0.001	<0.001	<0.001	0.017	<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	<0.001	<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	0.0038	<0.001	<0.001	0.07 (o)	<0.001
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	<0.001	<0.001		<0.001			
6/22/2008	0.013				<0.001		<0.001	0.0026	<0.001
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				
7/11/2009	0.0032	<0.001	<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				
1/20/2012	<0.001		<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
7/20/2013	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
1/17/2014	0.019	<0.001	<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		<0.001			<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	<0.001	<0.001	<0.001	<0.001	<0.001	0.0016 (J)	<0.001
1/16/2016	0.0015 (J)	0.00082 (J)	<0.001		0.0011 (J)	<0.001	<0.001	<0.001	
1/17/2016				<0.001					<0.001
6/22/2016	0.0081 (D)	<0.001	<0.001	<0.001	<0.001			0.0018 (J)	0.0019 (J)
6/23/2016						0.0021 (J)	<0.001		
1/19/2017		0.0025			<0.001			0.0033	
1/23/2017			0.0063						

Prediction Limit

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Constituent: Vanadium (mg/L) Analysis Run 2/17/2022 5:40 PM View: Appendix I
Plant McIntosh Client: Southern Company Data: McIntosh LF 3 CCR

	GWA-1A (bg)	GWA-4 (bg)	GWC-1	GWC-4A	GWA-3A (bg)	GWC-5	GWC-6	GWA-5 (bg)	GWC-2
1/24/2017						0.044 (o)			0.0062
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					0.0045	0.0015 (J)
7/20/2017				<0.001		0.014	0.0021 (J)		
1/8/2018	<0.001								
1/9/2018		0.0072	<0.001	<0.001	<0.001			0.0027	<0.001
1/10/2018						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	<0.001	<0.001	<0.001			0.0019 (J)	
1/31/2019						<0.001	<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		0.0017	0.0023	0.0021	0.002	0.0044	0.0043	0.004	0.0018
3/10/2020	<0.001	<0.001			<0.001			0.01	
3/11/2020			<0.001				<0.001		
3/31/2020				<0.001		0.0016			<0.001
4/2/2020					0.0013				
9/21/2020	<0.001	0.0012			<0.001				
9/22/2020			<0.001	<0.001		0.0015	0.0011	0.0056	<0.001
3/23/2021	<0.001				<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			0.0018	
8/18/2021			<0.001	<0.001		<0.001	0.0013		<0.001

Prediction Limit

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Constituent: Vanadium (mg/L) Analysis Run 2/17/2022 5:40 PM View: Appendix I
Plant McIntosh Client: Southern Company Data: McIntosh LF 3 CCR

GWA-7A (bg) 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
7/20/2013
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
1/19/2017
1/23/2017

Prediction Limit

Page 4

Constituent: Vanadium (mg/L) Analysis Run 2/17/2022 5:40 PM View: Appendix I
Plant McIntosh Client: Southern Company Data: McIntosh LF 3 CCR

	GWA-7A (bg)	GWA-2B (bg)	GWA-1B (bg)
1/24/2017			
1/25/2017			
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	<0.001	<0.001	
1/31/2019			
3/27/2019			
3/28/2019	<0.001	<0.001	
9/11/2019			
9/12/2019	0.002	0.0021	
3/10/2020		<0.001	
3/11/2020	<0.001		
3/31/2020			
4/2/2020			
9/21/2020	<0.001		
9/22/2020		<0.001	
3/23/2021	<0.001	<0.001	<0.001
3/24/2021			
8/17/2021	<0.001	<0.001	<0.001
8/18/2021			

Prediction Limit

Constituent: Zinc (mg/L) Analysis Run 2/17/2022 5:40 PM View: Appendix I

Plant McIntosh Client: Southern Company Data: McIntosh LF 3 CCR

	GWA-1A (bg)	GWA-5 (bg)	GWC-1	GWA-3A (bg)	GWC-2	GWC-4A	GWC-5	GWA-4 (bg)	GWC-6
10/5/1999	0.043	<0.005	<0.005	0.023	0.028	<0.005	0.037	0.039	0.063 (o)
11/12/1999	0.035	<0.005	<0.005	<0.005	<0.005	<0.005	0.022	0.025	0.025
12/29/1999	0.058	<0.005	<0.005	<0.005	0.022	<0.005	0.036	0.023	0.024
2/17/2000	0.051	<0.005	<0.005	<0.005	0.021	<0.005	<0.005	<0.005	<0.005
9/13/2000	<0.005	0.021	<0.005	<0.005	<0.005	0.036 (o)	0.027	0.035	0.061 (o)
11/10/2000	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	0.023	0.061 (o)
1/4/2001	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	0.027	0.05 (o)
12/11/2001	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	0.036	<0.005
4/4/2002	<0.005	<0.005	<0.005	<0.005	0.069 (o)	<0.005	0.028	0.038	<0.005
12/6/2002	<0.005	0.06	0.011	<0.005	0.012	0.012	0.028	0.033	0.013
6/28/2003	<0.005	0.19 (o)	<0.005	<0.005	0.011	<0.005	0.012	0.018	0.014
12/13/2003	<0.005	0.067	<0.005	<0.005	<0.005	<0.005	0.026	0.013	<0.005
5/28/2004	0.034	0.068	<0.005	<0.005	<0.005	<0.005	0.018	<0.005	<0.005
12/10/2004	0.021	0.039	<0.005	<0.005	0.027	<0.005	0.029	<0.005	<0.005
6/24/2005	<0.005	0.033	<0.005	<0.005	<0.005	<0.005	0.016	<0.005	<0.005
12/13/2005	0.013	0.039	0.015	<0.005	0.011	<0.005	0.017	0.011	<0.005
7/12/2006	0.074	0.022	0.0042	0.0047	0.0064	<0.005	0.013	0.0055	0.0057
12/1/2006	0.048	0.018	0.0047	0.065	0.0077	0.098 (o)	0.03	0.0052	0.0068
6/21/2007	0.067	0.058	0.0052	0.008	0.0082	0.0043	0.017	0.0062	0.016
12/15/2007	0.053	0.0072	0.0046	0.0043	0.0063	0.0057	0.013	0.0055	0.012
6/21/2008			0.0067			0.0064	0.016	0.011	
6/22/2008	0.024	0.011		0.0062	0.0074				0.014
12/6/2008		0.011	0.0054	0.051	0.0066	0.0052		0.008	
12/7/2008	0.0087						0.05		0.044 (o)
7/10/2009				0.0043					
7/11/2009	0.045	0.013	0.0038		0.0054	0.0049	0.013	0.011	0.0062
12/22/2009		0.013							
12/23/2009	0.054		0.0029	0.0039	0.0046	0.005	0.01	0.0051	0.007
6/23/2010		0.0084	<0.005	<0.005	0.0041	0.0044	0.011	0.0031	
6/24/2010	0.0065								0.0049
1/8/2011		0.0089	0.0032	0.0037	0.019	0.0036	0.012	0.0035	
1/9/2011	0.022								
7/10/2011		0.0084	0.004	0.0047	0.005	0.0046	0.0096	0.0081	
7/11/2011	0.0032								0.0052
1/19/2012				0.0045				0.017	
1/20/2012	0.0089	0.0094	0.0067		0.007	0.0045	0.014		0.0081
7/12/2012		0.0098	0.0036	0.0033	0.0045	0.0041	0.01	0.01	
7/13/2012	0.012								0.004
1/21/2013	0.024	0.007	0.0031	0.0038	0.0045	0.0038	0.011	0.013	0.0093
7/20/2013	0.0068	0.0074	<0.005	0.004	<0.005	0.0047	0.0089	<0.005	0.0054
1/17/2014	0.02	0.0092	0.0031	0.005	0.0075	0.0051	0.0098	0.0066	0.0054
7/11/2014						0.0066	0.014		
7/12/2014	0.0055	0.013	<0.0025 (J)	0.004	0.0051			0.0054	0.0057
1/15/2015				0.0056	0.0054			0.0076	
1/16/2015	0.0043	0.0081	0.002 (J)			0.0046	0.011		0.0084
7/15/2015	0.0026	0.009	0.0015 (J)	0.0034	0.0049	0.0036	0.012	0.0053	0.0046
1/16/2016	0.0035	0.007	0.0015 (J)	0.0038			0.014	0.0048	0.0051
1/17/2016					0.0051	0.004			
6/22/2016	0.00805 (JD)	0.0091 (J)	<0.005	0.00575 (JD)	0.0087 (J)	0.0053 (J)		0.0038 (J)	
6/23/2016							0.0116		0.0041 (J)
1/19/2017		0.0065 (J)		<0.005				<0.005	
1/23/2017			<0.005						

Prediction Limit

Page 2

Constituent: Zinc (mg/L) Analysis Run 2/17/2022 5:40 PM View: Appendix I

Plant McIntosh Client: Southern Company Data: McIntosh LF 3 CCR

	GWA-1A (bg)	GWA-5 (bg)	GWC-1	GWA-3A (bg)	GWC-2	GWC-4A	GWC-5	GWA-4 (bg)	GWC-6
1/24/2017					0.0071 (J)		0.01 (J)		
1/25/2017						<0.005			
1/27/2017									<0.005
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				
7/20/2017						<0.005	0.016 (J)		<0.005
1/8/2018	<0.005								
1/9/2018		0.014 (J)	<0.005	<0.005	0.0079 (J)	<0.005		0.0072 (J)	
1/10/2018							0.012 (J)		<0.005
7/10/2018	<0.005	0.0089 (J)		<0.005	0.0067 (J)	<0.005		<0.005	
7/11/2018			<0.005				0.015 (J)		<0.005
1/30/2019	<0.005	0.0057 (J)	<0.005	0.0058 (J)		0.0042 (J)		0.006 (J)	
1/31/2019					<0.005		0.033		<0.005
3/27/2019	<0.005	0.01 (J)							
3/28/2019			<0.005	<0.005	0.0069 (J)	<0.005	0.032	<0.005	0.0084 (J)
9/11/2019	0.0062								
9/12/2019		0.0074	0.0039 (J)	0.0081	0.0089	0.0093	0.033	0.0073	0.011
3/10/2020	<0.005	0.0071		0.0079				0.0079	
3/11/2020			<0.005						0.0047 (J)
3/31/2020					0.0065	<0.005	0.025		
4/2/2020				0.011					
9/21/2020	<0.005			0.0055				0.013	
9/22/2020		0.039	<0.005		0.029	0.017	0.037		0.0053
3/23/2021	<0.005			0.0092	0.0085				
3/24/2021		0.0085	<0.005			0.01	0.034	0.0058	0.0043 (J)
8/17/2021	0.048	0.024		0.014				0.029	
8/18/2021			0.11		0.0081	0.012	0.035		0.12

Prediction Limit

Page 3

Constituent: Zinc (mg/L) Analysis Run 2/17/2022 5:40 PM View: Appendix I
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
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
7/20/2013
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
1/19/2017
1/23/2017

Prediction Limit

Page 4

Constituent: Zinc (mg/L) Analysis Run 2/17/2022 5:40 PM View: Appendix I
Plant McIntosh Client: Southern Company Data: McIntosh LF 3 CCR

	GWA-2B (bg)	GWA-7A (bg)	GWA-1B (bg)
1/24/2017			
1/25/2017			
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	0.013 (J)	0.011 (J)	
1/31/2019			
3/27/2019			
3/28/2019	0.014 (J)	0.0086 (J)	
9/11/2019			
9/12/2019	0.0075	0.014	
3/10/2020	0.0061		
3/11/2020		0.0099	
3/31/2020			
4/2/2020			
9/21/2020		0.007	
9/22/2020	0.0066		
3/23/2021	0.0066	0.0096	0.0098
3/24/2021			
8/17/2021	0.026	0.052	0.024
8/18/2021			

FIGURE E.

Appendix I Trend Test Summary - Significant Results

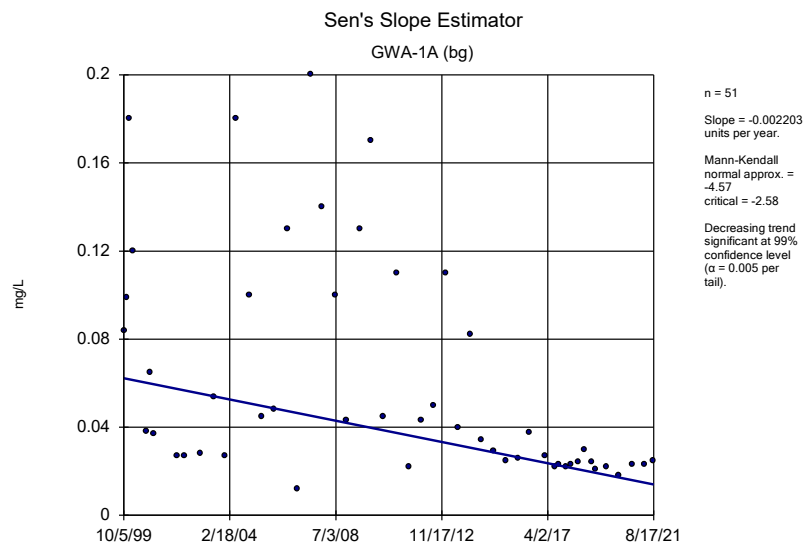
Plant McIntosh Client: Southern Company Data: McIntosh LF 3 CCR Printed 2/18/2022, 10:44 AM

<u>Constituent</u>	<u>Well</u>	<u>Slope</u>	<u>Calc.</u>	<u>Critical</u>	<u>Sig.</u>	<u>N</u>	<u>%NDs</u>	<u>Normality</u>	<u>Xform</u>	<u>Alpha</u>	<u>Method</u>
Barium (mg/L)	GWA-1A (bg)	-0.002203	-4.57	-2.58	Yes	51	0	n/a	n/a	0.01	NP
Barium (mg/L)	GWA-3A (bg)	0.001273	6.942	2.58	Yes	53	0	n/a	n/a	0.01	NP
Barium (mg/L)	GWA-4 (bg)	0.0009865	6.173	2.58	Yes	52	0	n/a	n/a	0.01	NP
Barium (mg/L)	GWC-5	0.01157	2.766	2.58	Yes	51	0	n/a	n/a	0.01	NP
Cobalt (mg/L)	GWA-1A (bg)	0	-3.527	-2.58	Yes	50	70	n/a	n/a	0.01	NP
Cobalt (mg/L)	GWA-2B (bg)	-0.001671	-22	-21	Yes	8	12.5	n/a	n/a	0.01	NP
Cobalt (mg/L)	GWA-3A (bg)	-0.0000229	-4.434	-2.58	Yes	53	62.26	n/a	n/a	0.01	NP
Cobalt (mg/L)	GWA-4 (bg)	-0.00008038	-5.574	-2.58	Yes	52	65.38	n/a	n/a	0.01	NP
Cobalt (mg/L)	GWA-5 (bg)	-0.00008965	-5.387	-2.58	Yes	51	37.25	n/a	n/a	0.01	NP
Cobalt (mg/L)	GWC-5	0.0002649	4.157	2.58	Yes	52	23.08	n/a	n/a	0.01	NP
Zinc (mg/L)	GWA-3A (bg)	-0.0002003	-2.708	-2.58	Yes	49	42.86	n/a	n/a	0.01	NP
Zinc (mg/L)	GWA-4 (bg)	-0.0007237	-3.257	-2.58	Yes	48	18.75	n/a	n/a	0.01	NP
Zinc (mg/L)	GWA-5 (bg)	-0.0006685	-4.076	-2.58	Yes	47	17.02	n/a	n/a	0.01	NP
Zinc (mg/L)	GWC-6	-0.0004439	-2.908	-2.58	Yes	42	30.95	n/a	n/a	0.01	NP

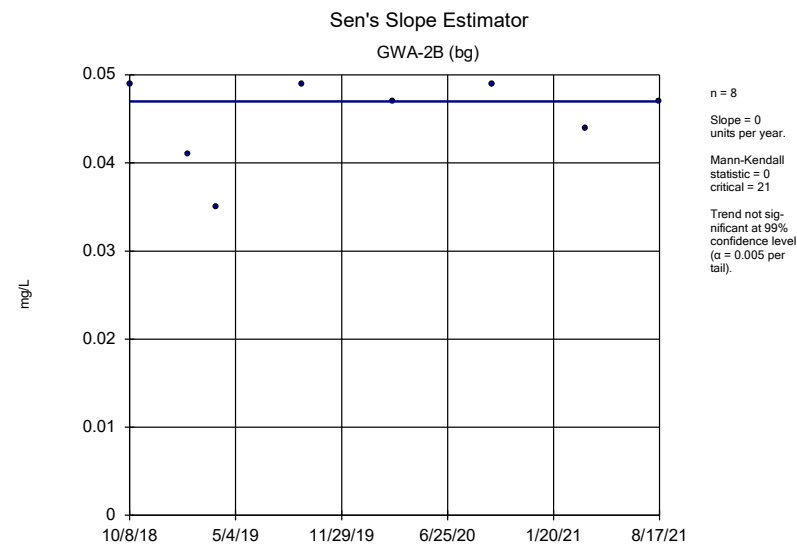
Appendix I Trend Test Summary - All Results

Plant McIntosh Client: Southern Company Data: McIntosh LF 3 CCR Printed 2/18/2022, 10:44 AM

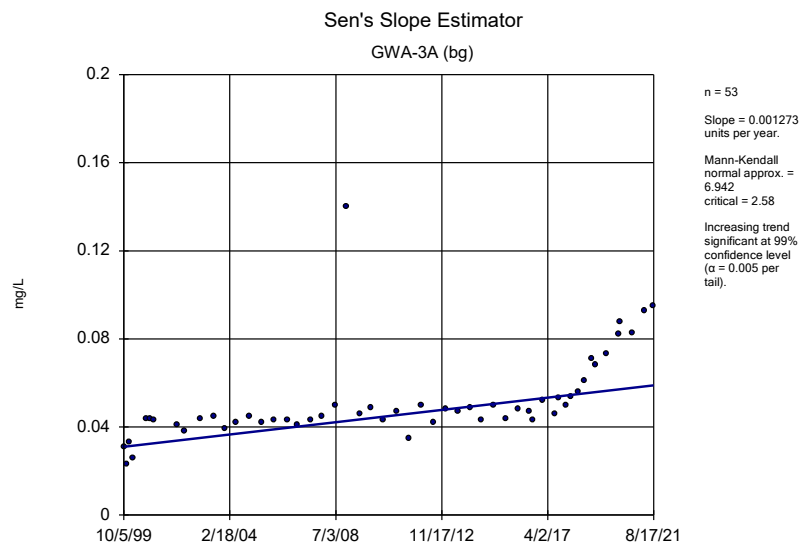
<u>Constituent</u>	<u>Well</u>	<u>Slope</u>	<u>Calc.</u>	<u>Critical</u>	<u>Sig.</u>	<u>N</u>	<u>%NDs</u>	<u>Normality</u>	<u>Xform</u>	<u>Alpha</u>	<u>Method</u>
Barium (mg/L)	GWA-1A (bg)	-0.002203	-4.57	-2.58	Yes	51	0	n/a	n/a	0.01	NP
Barium (mg/L)	GWA-2B (bg)	0	0	21	No	8	0	n/a	n/a	0.01	NP
Barium (mg/L)	GWA-3A (bg)	0.001273	6.942	2.58	Yes	53	0	n/a	n/a	0.01	NP
Barium (mg/L)	GWA-4 (bg)	0.0009865	6.173	2.58	Yes	52	0	n/a	n/a	0.01	NP
Barium (mg/L)	GWA-5 (bg)	0.0003925	0.5945	2.58	No	51	0	n/a	n/a	0.01	NP
Barium (mg/L)	GWA-7A (bg)	-0.0222	-17	-21	No	8	0	n/a	n/a	0.01	NP
Barium (mg/L)	GWC-5	0.01157	2.766	2.58	Yes	51	0	n/a	n/a	0.01	NP
Cobalt (mg/L)	GWA-1A (bg)	0	-3.527	-2.58	Yes	50	70	n/a	n/a	0.01	NP
Cobalt (mg/L)	GWA-2B (bg)	-0.001671	-22	-21	Yes	8	12.5	n/a	n/a	0.01	NP
Cobalt (mg/L)	GWA-3A (bg)	-0.0000229	-4.434	-2.58	Yes	53	62.26	n/a	n/a	0.01	NP
Cobalt (mg/L)	GWA-4 (bg)	-0.00008038	-5.574	-2.58	Yes	52	65.38	n/a	n/a	0.01	NP
Cobalt (mg/L)	GWA-5 (bg)	-0.00008965	-5.387	-2.58	Yes	51	37.25	n/a	n/a	0.01	NP
Cobalt (mg/L)	GWA-7A (bg)	-0.0009367	-16	-21	No	8	0	n/a	n/a	0.01	NP
Cobalt (mg/L)	GWC-5	0.0002649	4.157	2.58	Yes	52	23.08	n/a	n/a	0.01	NP
Zinc (mg/L)	GWA-1A (bg)	-0.0001785	-2.231	-2.58	No	48	37.5	n/a	n/a	0.01	NP
Zinc (mg/L)	GWA-2B (bg)	-0.0005887	-2	-18	No	7	0	n/a	n/a	0.01	NP
Zinc (mg/L)	GWA-3A (bg)	-0.0002003	-2.708	-2.58	Yes	49	42.86	n/a	n/a	0.01	NP
Zinc (mg/L)	GWA-4 (bg)	-0.0007237	-3.257	-2.58	Yes	48	18.75	n/a	n/a	0.01	NP
Zinc (mg/L)	GWA-5 (bg)	-0.0006685	-4.076	-2.58	Yes	47	17.02	n/a	n/a	0.01	NP
Zinc (mg/L)	GWA-7A (bg)	0.0005028	1	18	No	7	0	n/a	n/a	0.01	NP
Zinc (mg/L)	GWC-1	0	-1.467	-2.58	No	48	56.25	n/a	n/a	0.01	NP
Zinc (mg/L)	GWC-6	-0.0004439	-2.908	-2.58	Yes	42	30.95	n/a	n/a	0.01	NP



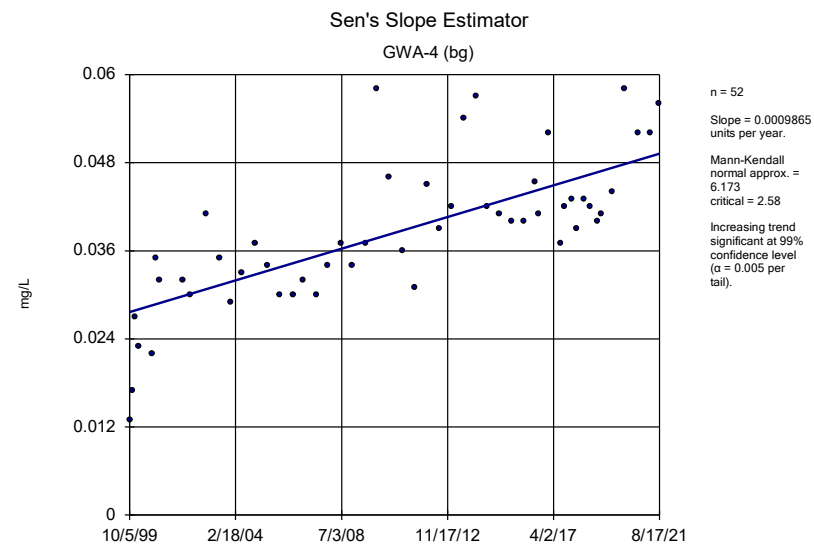
Constituent: Barium Analysis Run 2/18/2022 10:43 AM View: Appendix I - Trend Tests
Plant McIntosh Client: Southern Company Data: McIntosh LF 3 CCR



Constituent: Barium Analysis Run 2/18/2022 10:43 AM View: Appendix I - Trend Tests
Plant McIntosh Client: Southern Company Data: McIntosh LF 3 CCR



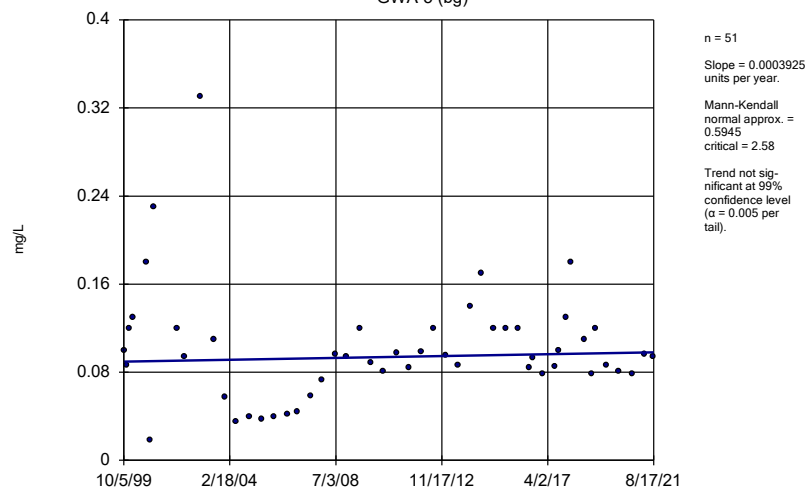
Constituent: Barium Analysis Run 2/18/2022 10:43 AM View: Appendix I - Trend Tests
Plant McIntosh Client: Southern Company Data: McIntosh LF 3 CCR



Constituent: Barium Analysis Run 2/18/2022 10:43 AM View: Appendix I - Trend Tests
Plant McIntosh Client: Southern Company Data: McIntosh LF 3 CCR

Sen's Slope Estimator

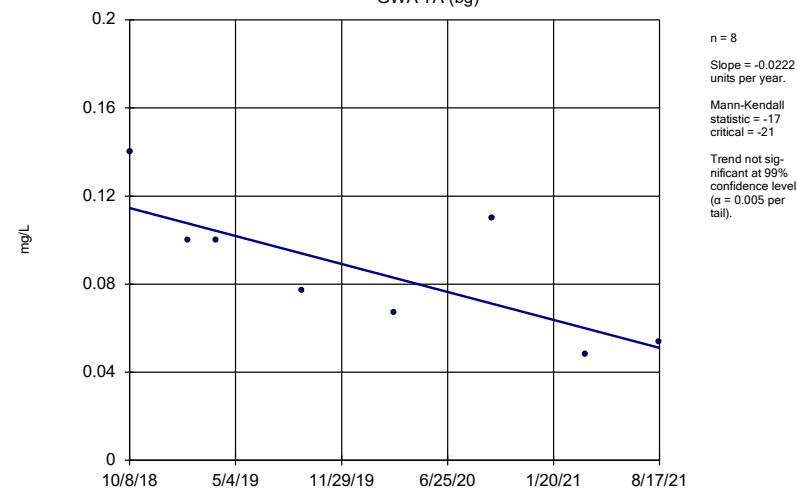
GWA-5 (bg)



Constituent: Barium Analysis Run 2/18/2022 10:43 AM View: Appendix I - Trend Tests
Plant McIntosh Client: Southern Company Data: McIntosh LF 3 CCR

Sen's Slope Estimator

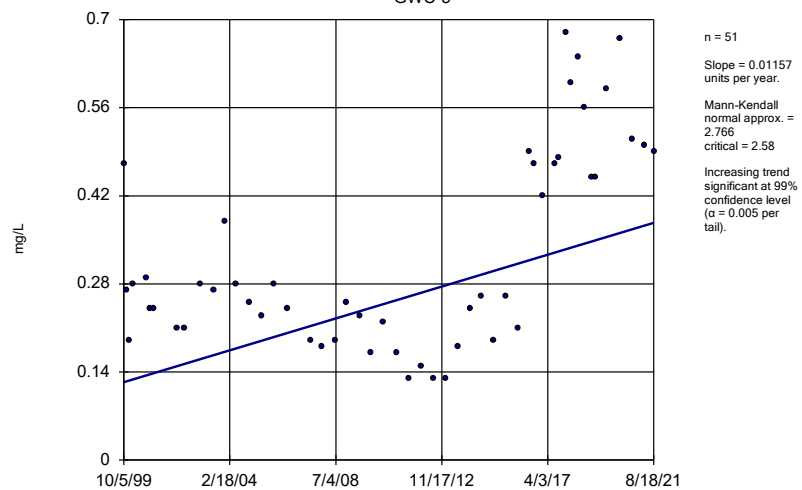
GWA-7A (bg)



Constituent: Barium Analysis Run 2/18/2022 10:43 AM View: Appendix I - Trend Tests
Plant McIntosh Client: Southern Company Data: McIntosh LF 3 CCR

Sen's Slope Estimator

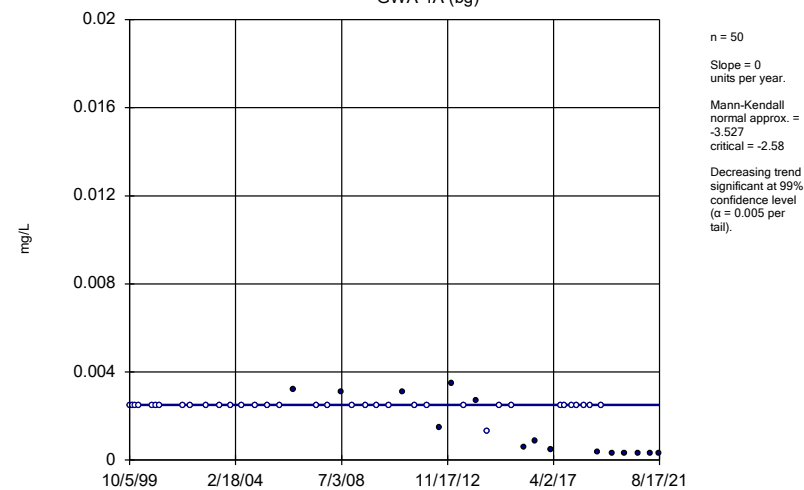
GWC-5



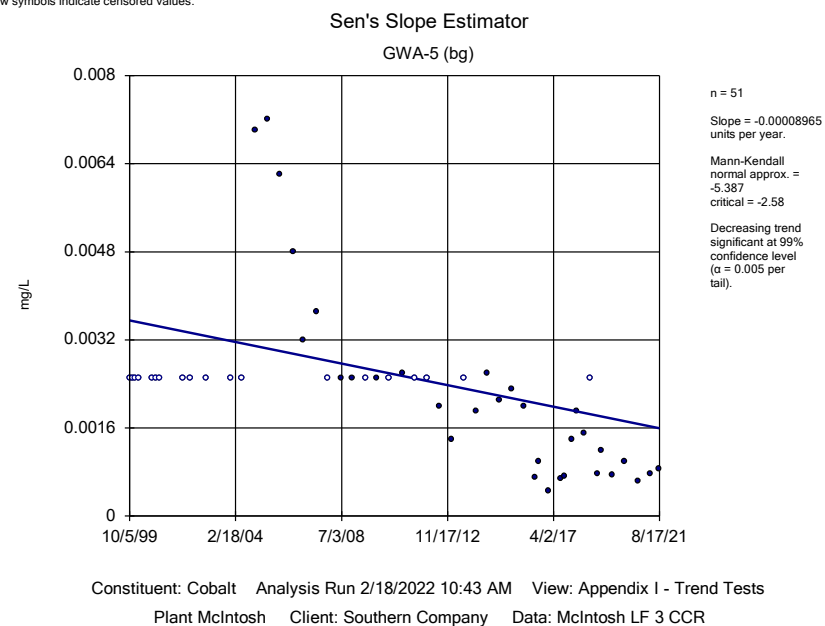
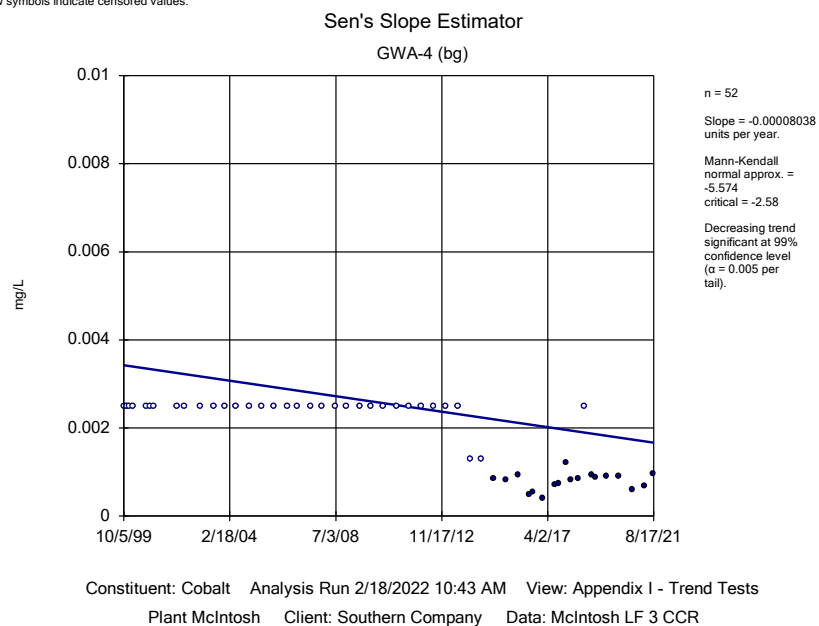
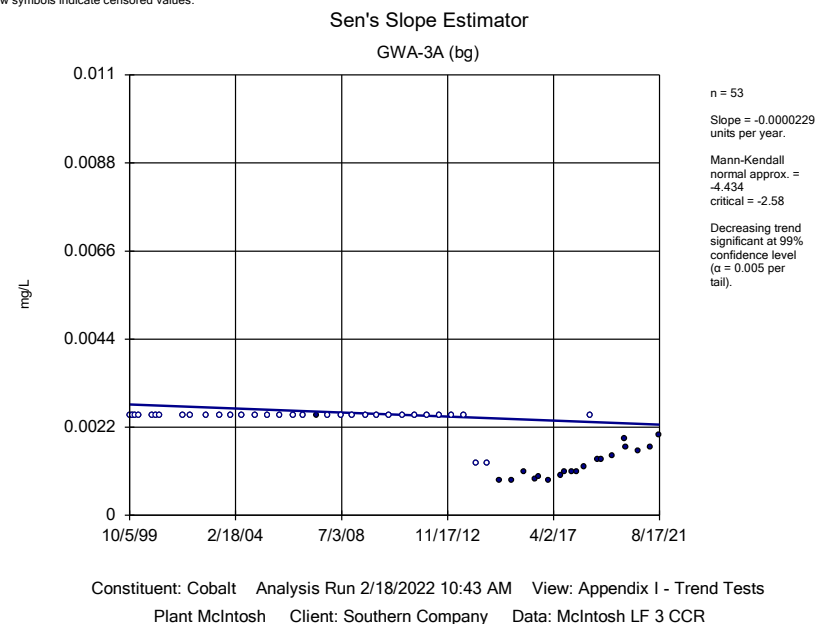
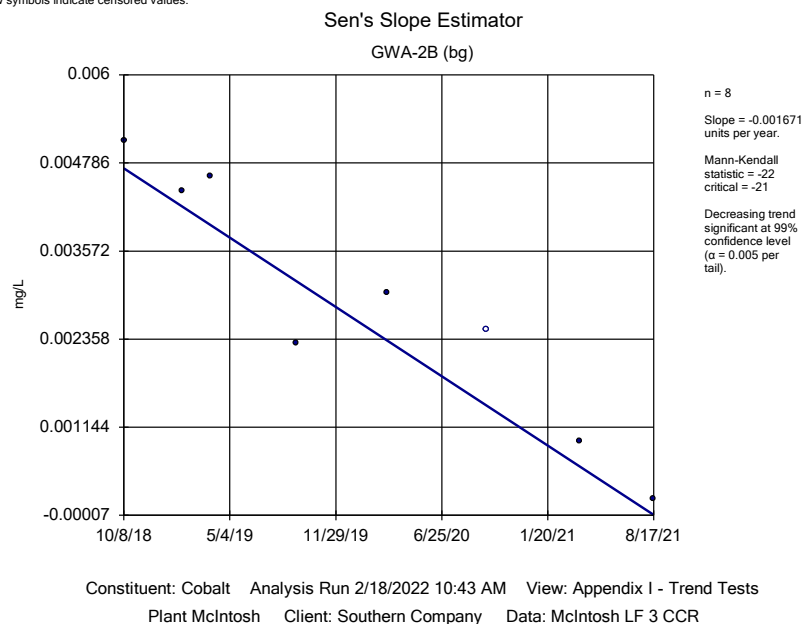
Constituent: Barium Analysis Run 2/18/2022 10:43 AM View: Appendix I - Trend Tests
Plant McIntosh Client: Southern Company Data: McIntosh LF 3 CCR

Sen's Slope Estimator

GWA-1A (bg)

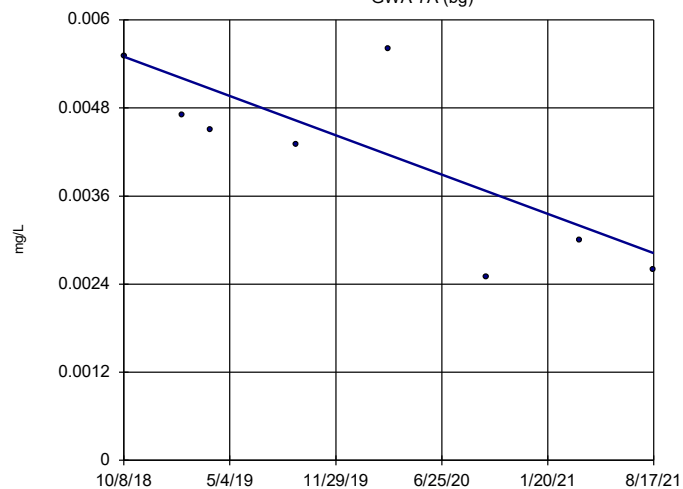


Constituent: Cobalt Analysis Run 2/18/2022 10:43 AM View: Appendix I - Trend Tests
Plant McIntosh Client: Southern Company Data: McIntosh LF 3 CCR



Sen's Slope Estimator

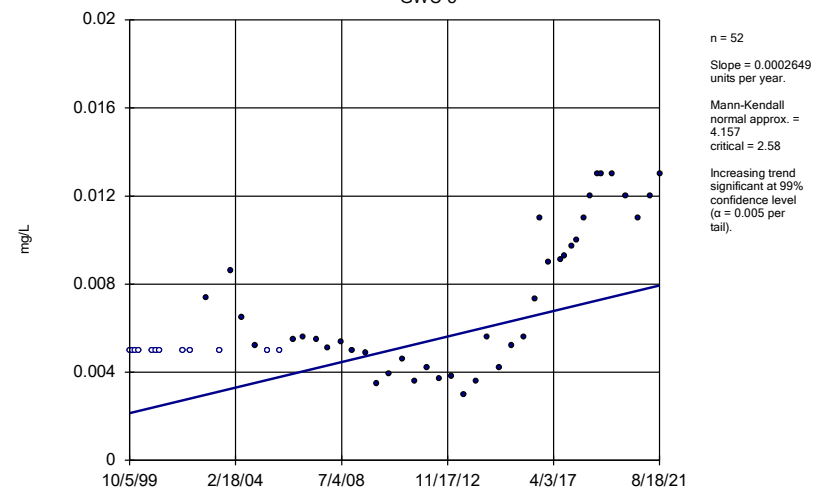
GWA-7A (bg)



Constituent: Cobalt Analysis Run 2/18/2022 10:43 AM View: Appendix I - Trend Tests
Plant McIntosh Client: Southern Company Data: McIntosh LF 3 CCR

Sen's Slope Estimator

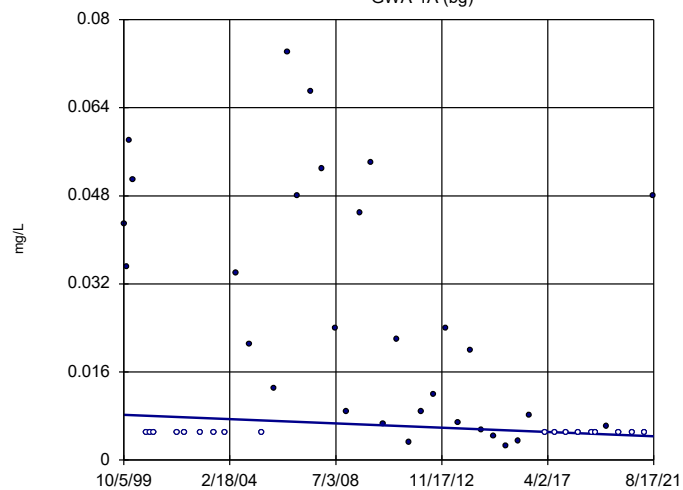
GWC-5



Constituent: Cobalt Analysis Run 2/18/2022 10:43 AM View: Appendix I - Trend Tests
Plant McIntosh Client: Southern Company Data: McIntosh LF 3 CCR

Sen's Slope Estimator

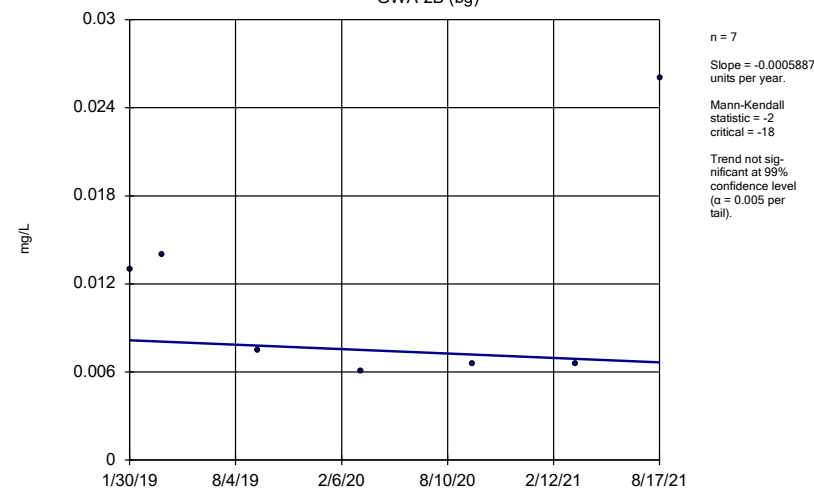
GWA-1A (bg)



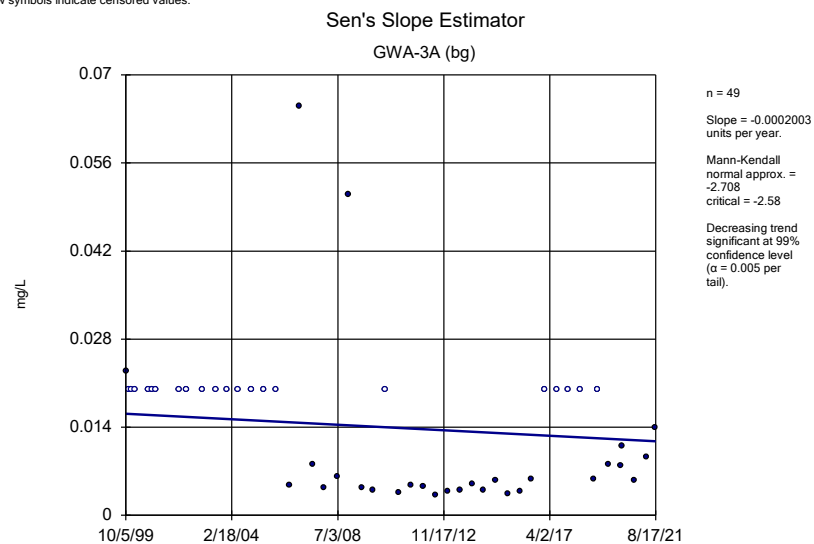
Constituent: Zinc Analysis Run 2/18/2022 10:43 AM View: Appendix I - Trend Tests
Plant McIntosh Client: Southern Company Data: McIntosh LF 3 CCR

Sen's Slope Estimator

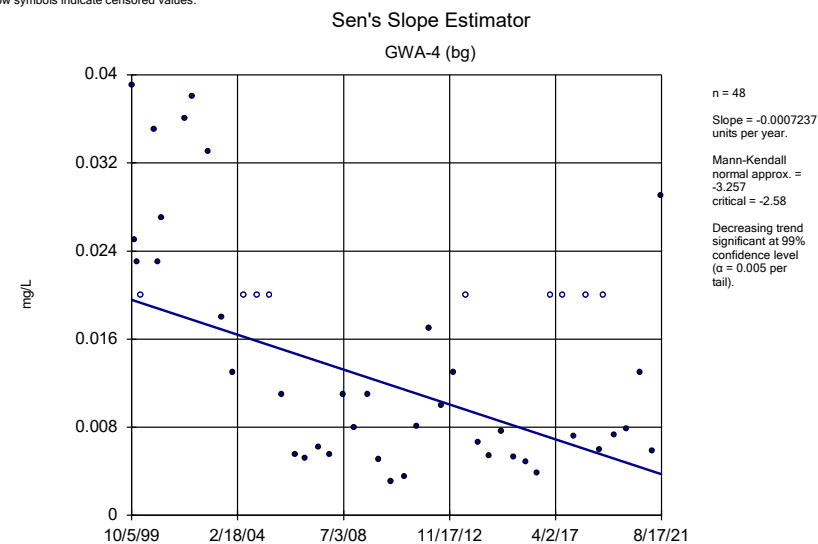
GWA-2B (bg)



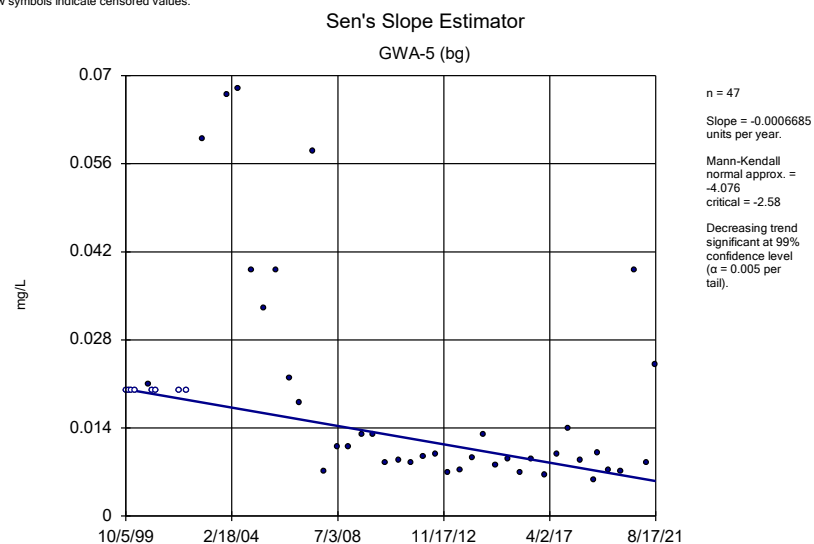
Constituent: Zinc Analysis Run 2/18/2022 10:43 AM View: Appendix I - Trend Tests
Plant McIntosh Client: Southern Company Data: McIntosh LF 3 CCR



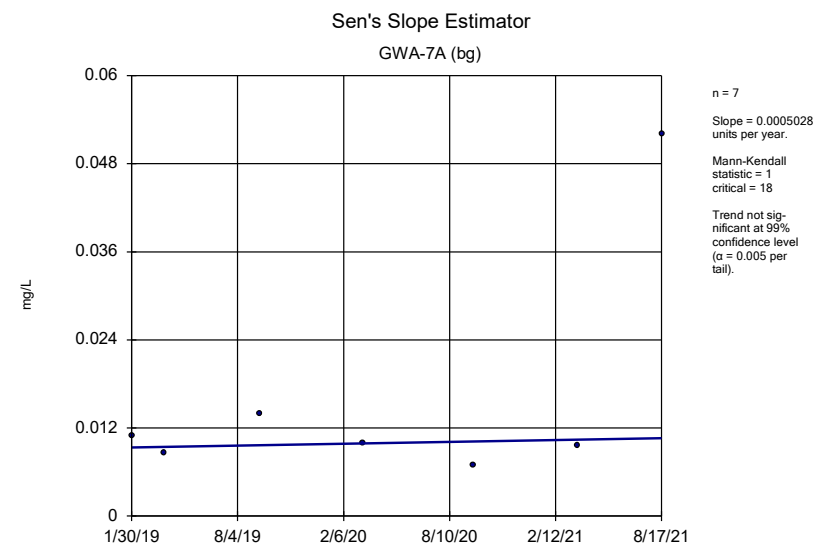
Constituent: Zinc Analysis Run 2/18/2022 10:43 AM View: Appendix I - Trend Tests
Plant McIntosh Client: Southern Company Data: McIntosh LF 3 CCR



Constituent: Zinc Analysis Run 2/18/2022 10:43 AM View: Appendix I - Trend Tests
Plant McIntosh Client: Southern Company Data: McIntosh LF 3 CCR



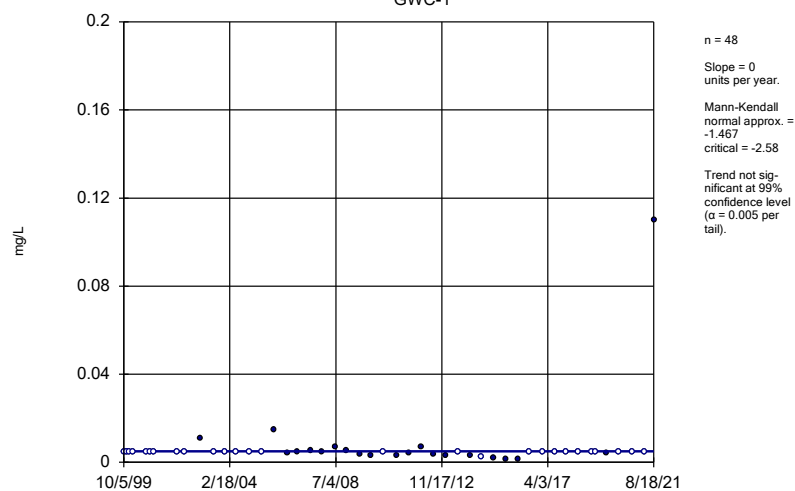
Constituent: Zinc Analysis Run 2/18/2022 10:43 AM View: Appendix I - Trend Tests
Plant McIntosh Client: Southern Company Data: McIntosh LF 3 CCR



Constituent: Zinc Analysis Run 2/18/2022 10:43 AM View: Appendix I - Trend Tests
Plant McIntosh Client: Southern Company Data: McIntosh LF 3 CCR

Sen's Slope Estimator

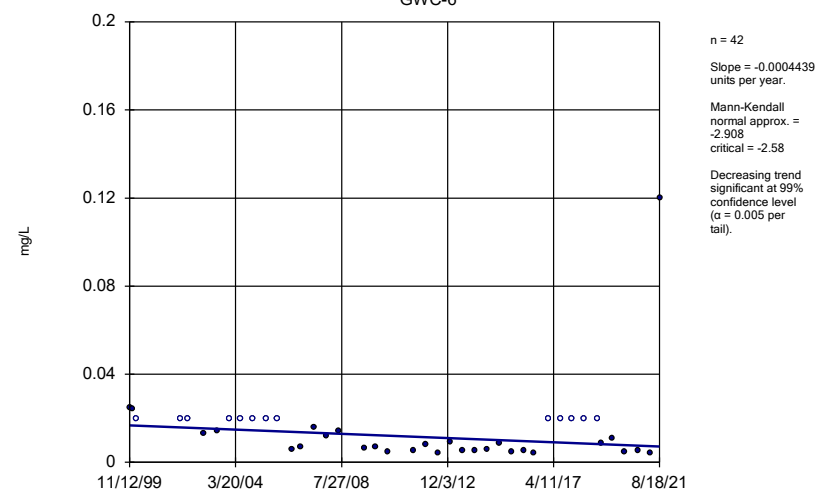
GWC-1



Constituent: Zinc Analysis Run 2/18/2022 10:43 AM View: Appendix I - Trend Tests
Plant McIntosh Client: Southern Company Data: McIntosh LF 3 CCR

Sen's Slope Estimator

GWC-6



Constituent: Zinc Analysis Run 2/18/2022 10:43 AM View: Appendix I - Trend Tests
Plant McIntosh Client: Southern Company Data: McIntosh LF 3 CCR

FIGURE F.

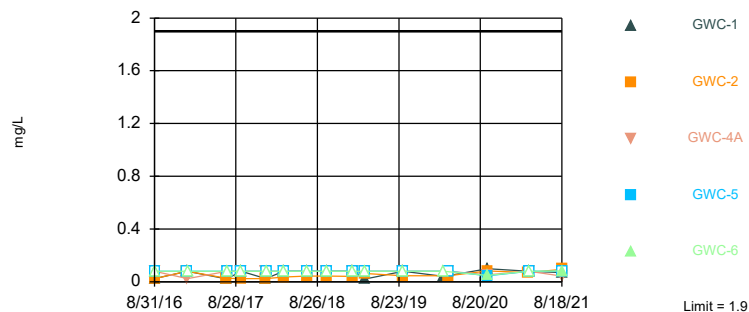
Appendix III Interwell Prediction Limits - All Results (No Significant)

Plant McIntosh Client: Southern Company Data: McIntosh LF 3 CCR Printed 10/11/2021, 5:28 PM

Constituent	Well	Upper Lim.	Lower Lim.	Date	Observ.	Sig.	Bg N	Bg Mean	Std. Dev.	%NDs	ND Adj.	Transform	Alpha	Method
Boron (mg/L)	GWC-1	1.9	n/a	8/18/2021	0.07J	No	79	n/a	n/a	43.04	n/a	n/a	0.0003081	NP Inter (normality) 1 of 2
Boron (mg/L)	GWC-2	1.9	n/a	8/18/2021	0.095	No	79	n/a	n/a	43.04	n/a	n/a	0.0003081	NP Inter (normality) 1 of 2
Boron (mg/L)	GWC-4A	1.9	n/a	8/18/2021	0.043J	No	79	n/a	n/a	43.04	n/a	n/a	0.0003081	NP Inter (normality) 1 of 2
Boron (mg/L)	GWC-5	1.9	n/a	8/18/2021	0.08ND	No	79	n/a	n/a	43.04	n/a	n/a	0.0003081	NP Inter (normality) 1 of 2
Boron (mg/L)	GWC-6	1.9	n/a	8/18/2021	0.082	No	79	n/a	n/a	43.04	n/a	n/a	0.0003081	NP Inter (normality) 1 of 2
Calcium (mg/L)	GWC-1	20	n/a	8/18/2021	0.36J	No	78	n/a	n/a	0	n/a	n/a	0.000317	NP Inter (normality) 1 of 2
Calcium (mg/L)	GWC-2	20	n/a	8/18/2021	1.7	No	78	n/a	n/a	0	n/a	n/a	0.000317	NP Inter (normality) 1 of 2
Calcium (mg/L)	GWC-4A	20	n/a	8/18/2021	0.37J	No	78	n/a	n/a	0	n/a	n/a	0.000317	NP Inter (normality) 1 of 2
Calcium (mg/L)	GWC-5	20	n/a	8/18/2021	7.4	No	78	n/a	n/a	0	n/a	n/a	0.000317	NP Inter (normality) 1 of 2
Calcium (mg/L)	GWC-6	20	n/a	8/18/2021	1.6	No	78	n/a	n/a	0	n/a	n/a	0.000317	NP Inter (normality) 1 of 2
Chloride (mg/L)	GWC-1	23	n/a	8/18/2021	9.9	No	79	n/a	n/a	0	n/a	n/a	0.0003081	NP Inter (normality) 1 of 2
Chloride (mg/L)	GWC-2	23	n/a	8/18/2021	5.7	No	79	n/a	n/a	0	n/a	n/a	0.0003081	NP Inter (normality) 1 of 2
Chloride (mg/L)	GWC-4A	23	n/a	8/18/2021	7.3	No	79	n/a	n/a	0	n/a	n/a	0.0003081	NP Inter (normality) 1 of 2
Chloride (mg/L)	GWC-5	23	n/a	8/18/2021	8.2	No	79	n/a	n/a	0	n/a	n/a	0.0003081	NP Inter (normality) 1 of 2
Chloride (mg/L)	GWC-6	23	n/a	8/18/2021	7.4	No	79	n/a	n/a	0	n/a	n/a	0.0003081	NP Inter (normality) 1 of 2
Fluoride (mg/L)	GWC-1	0.21	n/a	8/18/2021	0.046J	No	79	n/a	n/a	60.76	n/a	n/a	0.0003081	NP Inter (NDs) 1 of 2
Fluoride (mg/L)	GWC-2	0.21	n/a	8/18/2021	0.1ND	No	79	n/a	n/a	60.76	n/a	n/a	0.0003081	NP Inter (NDs) 1 of 2
Fluoride (mg/L)	GWC-4A	0.21	n/a	8/18/2021	0.1ND	No	79	n/a	n/a	60.76	n/a	n/a	0.0003081	NP Inter (NDs) 1 of 2
Fluoride (mg/L)	GWC-5	0.21	n/a	8/18/2021	0.1ND	No	79	n/a	n/a	60.76	n/a	n/a	0.0003081	NP Inter (NDs) 1 of 2
Fluoride (mg/L)	GWC-6	0.21	n/a	8/18/2021	0.04J	No	79	n/a	n/a	60.76	n/a	n/a	0.0003081	NP Inter (NDs) 1 of 2
pH (S.U.)	GWC-1	5.839	4.018	8/18/2021	4.94	No	159	4.928	0.5092	0	None	No	0.000752	Param Inter 1 of 2
pH (S.U.)	GWC-2	5.839	4.018	8/18/2021	4.98	No	159	4.928	0.5092	0	None	No	0.000752	Param Inter 1 of 2
pH (S.U.)	GWC-4A	5.839	4.018	8/18/2021	4.76	No	159	4.928	0.5092	0	None	No	0.000752	Param Inter 1 of 2
pH (S.U.)	GWC-5	5.839	4.018	8/18/2021	4.9	No	159	4.928	0.5092	0	None	No	0.000752	Param Inter 1 of 2
pH (S.U.)	GWC-6	5.839	4.018	8/18/2021	5.03	No	159	4.928	0.5092	0	None	No	0.000752	Param Inter 1 of 2
Sulfate (mg/L)	GWC-1	110	n/a	8/18/2021	1ND	No	79	n/a	n/a	30.38	n/a	n/a	0.0003081	NP Inter (normality) 1 of 2
Sulfate (mg/L)	GWC-2	110	n/a	8/18/2021	1.2	No	79	n/a	n/a	30.38	n/a	n/a	0.0003081	NP Inter (normality) 1 of 2
Sulfate (mg/L)	GWC-4A	110	n/a	8/18/2021	1ND	No	79	n/a	n/a	30.38	n/a	n/a	0.0003081	NP Inter (normality) 1 of 2
Sulfate (mg/L)	GWC-5	110	n/a	8/18/2021	1ND	No	79	n/a	n/a	30.38	n/a	n/a	0.0003081	NP Inter (normality) 1 of 2
Sulfate (mg/L)	GWC-6	110	n/a	8/18/2021	1.2	No	79	n/a	n/a	30.38	n/a	n/a	0.0003081	NP Inter (normality) 1 of 2
Total Dissolved Solids (mg/L)	GWC-1	164.7	n/a	8/18/2021	32	No	78	7.506	2.928	2.564	None	sqrt(x)	0.001504	Param Inter 1 of 2
Total Dissolved Solids (mg/L)	GWC-2	164.7	n/a	8/18/2021	37	No	78	7.506	2.928	2.564	None	sqrt(x)	0.001504	Param Inter 1 of 2
Total Dissolved Solids (mg/L)	GWC-4A	164.7	n/a	8/18/2021	29	No	78	7.506	2.928	2.564	None	sqrt(x)	0.001504	Param Inter 1 of 2
Total Dissolved Solids (mg/L)	GWC-5	164.7	n/a	8/18/2021	160	No	78	7.506	2.928	2.564	None	sqrt(x)	0.001504	Param Inter 1 of 2
Total Dissolved Solids (mg/L)	GWC-6	164.7	n/a	8/18/2021	36	No	78	7.506	2.928	2.564	None	sqrt(x)	0.001504	Param Inter 1 of 2

Within Limit

Prediction Limit Interwell Non-parametric

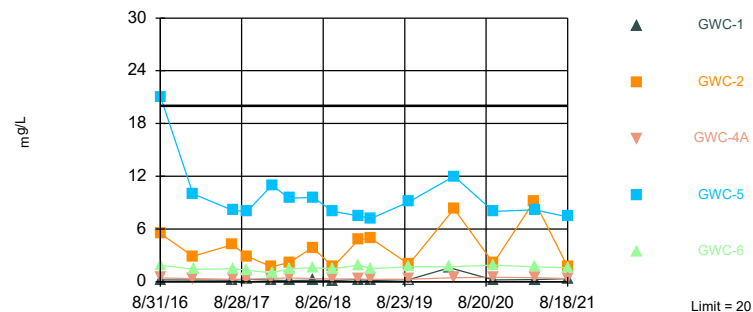


Non-parametric test used in lieu of parametric prediction limit because the Shapiro Francia normality test showed the data to be non-normal at the 0.01 alpha level. Limit is highest of 79 background values. 43.04% NDs. Annual per-constituent alpha = 0.003077. Individual comparison alpha = 0.0003081 (1 of 2). Comparing 5 points to limit.

Constituent: Boron Analysis Run 10/11/2021 5:26 PM View: Appendix III
Plant McIntosh Client: Southern Company Data: McIntosh LF 3 CCR

Within Limit

Prediction Limit Interwell Non-parametric

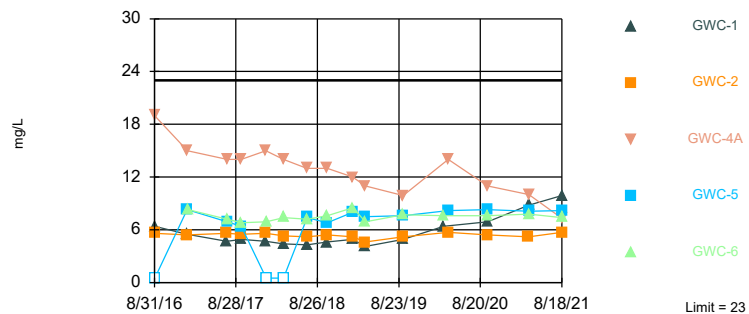


Non-parametric test used in lieu of parametric prediction limit because the Shapiro Francia normality test showed the data to be non-normal at the 0.01 alpha level. Limit is highest of 78 background values. Annual per-constituent alpha = 0.003165. Individual comparison alpha = 0.000317 (1 of 2). Comparing 5 points to limit.

Constituent: Calcium Analysis Run 10/11/2021 5:26 PM View: Appendix III
Plant McIntosh Client: Southern Company Data: McIntosh LF 3 CCR

Within Limit

Prediction Limit Interwell Non-parametric

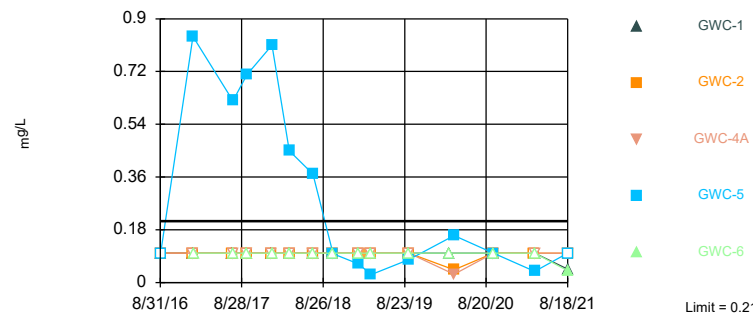


Non-parametric test used in lieu of parametric prediction limit because the Shapiro Francia normality test showed the data to be non-normal at the 0.01 alpha level. Limit is highest of 79 background values. Annual per-constituent alpha = 0.003077. Individual comparison alpha = 0.0003081 (1 of 2). Comparing 5 points to limit.

Constituent: Chloride Analysis Run 10/11/2021 5:26 PM View: Appendix III
Plant McIntosh Client: Southern Company Data: McIntosh LF 3 CCR

Within Limit

Prediction Limit Interwell Non-parametric

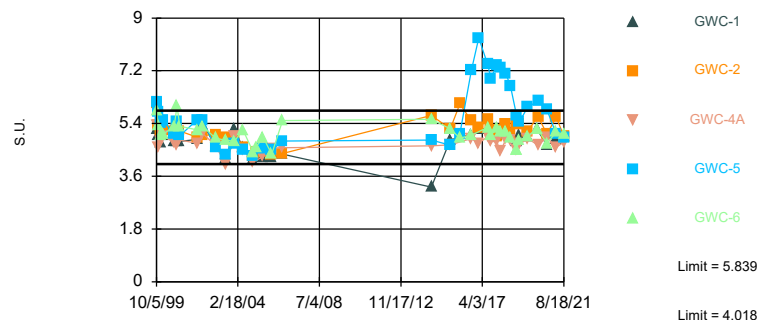


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 79 background values. 60.76% NDs. Annual per-constituent alpha = 0.003077. Individual comparison alpha = 0.0003081 (1 of 2). Comparing 5 points to limit.

Constituent: Fluoride Analysis Run 10/11/2021 5:26 PM View: Appendix III
Plant McIntosh Client: Southern Company Data: McIntosh LF 3 CCR

Within Limits

Prediction Limit Interwell Parametric



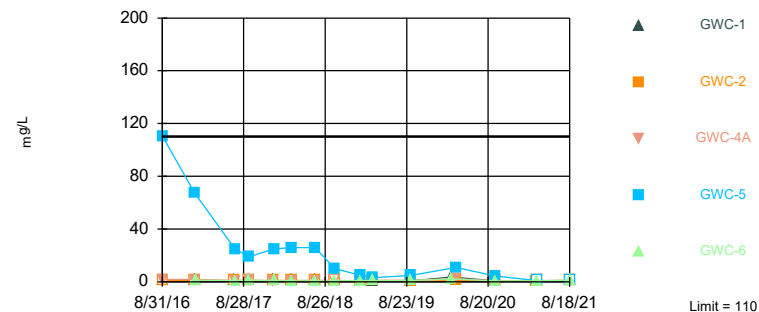
Background Data Summary: Mean=4.928, Std. Dev.=0.5092, n=159. Normality test: Chi Squared @alpha = 0.01, calculated = 12.26, critical = 14.07. Kappa = 1.788 (c=7, w=5, 1 of 2, event alpha = 0.05132). N exceeds UG tables; Kappa based on n=150. Report alpha = 0.007498. Individual comparison alpha = 0.000752. Comparing 5 points to limit.

Constituent: pH Analysis Run 10/11/2021 5:26 PM View: Appendix III
Plant McIntosh Client: Southern Company Data: McIntosh LF 3 CCR

Hollow symbols indicate censored values.

Within Limit

Prediction Limit Interwell Non-parametric



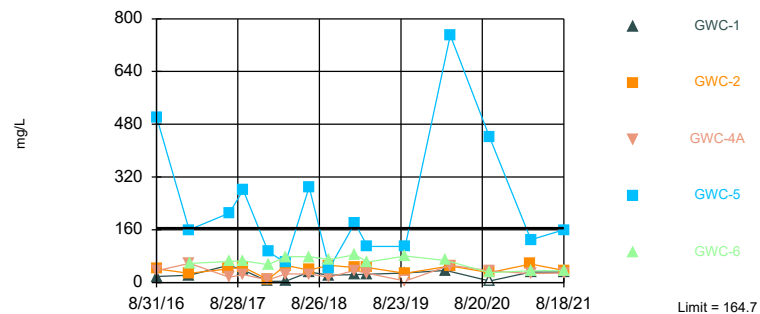
Non-parametric test used in lieu of parametric prediction limit because the Shapiro Francia normality test showed the data to be non-normal at the 0.01 alpha level. Limit is highest of 79 background values. 30.38% NDs. Annual per-constituent alpha = 0.003077. Individual comparison alpha = 0.0003081 (1 of 2). Comparing 5 points to limit.

Constituent: Sulfate Analysis Run 10/11/2021 5:26 PM View: Appendix 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=7.506, Std. Dev.=2.928, n=78, 2.564% NDs. Normality test: Shapiro Francia @alpha = 0.01, calculated = 0.9673, critical = 0.957. Kappa = 1.82 (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 10/11/2021 5:26 PM View: Appendix III
Plant McIntosh Client: Southern Company Data: McIntosh LF 3 CCR

Prediction Limit

Constituent: Boron (mg/L) Analysis Run 10/11/2021 5:28 PM View: Appendix III

Plant McIntosh Client: Southern Company Data: McIntosh LF 3 CCR

	GWC-1	GWA-3A (bg)	GWA-4 (bg)	GWC-2	GWA-5 (bg)	GWC-4A	GWA-1A (bg)	GWC-5	GWC-6
8/31/2016	0.023 (J)	<0.08	<0.08	0.023 (J)	0.073	<0.08			
9/1/2016							0.029 (J)	<0.08	<0.08
1/19/2017		<0.08	0.027 (J)		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)			0.026 (J)	0.07				
7/20/2017						<0.08		<0.08	<0.08
9/20/2017		<0.08					<0.08		
9/21/2017	<0.08		<0.08	0.025 (J)	0.07	<0.08		<0.08	
9/22/2017									<0.08
1/8/2018							<0.08		
1/9/2018	0.025 (J)	<0.08	<0.08	0.023 (J)	0.042 (J)	<0.08			
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	0.044 (J)	0.042 (J)	<0.08	<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		0.043 (J)		<0.08		<0.08	<0.08
1/30/2019	<0.08	<0.08	<0.08		0.03 (J)	<0.08	<0.08		
1/31/2019				0.04 (J)				<0.08	<0.08
3/27/2019					0.036 (J)		<0.08		
3/28/2019	0.021 (J)	0.024 (J)	<0.08	0.062		<0.08		<0.08	<0.08
9/11/2019							<0.08		
9/12/2019	<0.08	<0.08	<0.08	0.045 (J)	0.048 (J)	<0.08		<0.08	<0.08
3/10/2020		0.059 (J)	<0.08		0.066 (J)		<0.08		
3/11/2020	0.04 (J)								<0.08
3/31/2020				0.046 (J)		<0.08		<0.08	
4/2/2020		0.084							
9/21/2020		0.11	0.073 (J)				0.11		
9/22/2020	0.098			0.083	0.097	0.053 (J)		0.045 (J)	0.048 (J)
3/23/2021		0.088		0.07 (J)			<0.08		
3/24/2021	<0.08		<0.08		0.048 (J)	<0.08		<0.08	<0.08
8/17/2021		0.098	0.045 (J)		0.067 (J)		0.049 (J)		
8/18/2021	0.07 (J)			0.095		0.043 (J)		<0.08	0.082

Prediction Limit

Page 2

Constituent: Boron (mg/L) Analysis Run 10/11/2021 5:28 PM View: Appendix 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			

Prediction Limit

Constituent: Calcium (mg/L) Analysis Run 10/11/2021 5:28 PM View: Appendix III

Plant McIntosh Client: Southern Company Data: McIntosh LF 3 CCR

	GWC-1	GWA-4 (bg)	GWA-5 (bg)	GWC-2	GWA-3A (bg)	GWC-4A	GWC-6	GWC-5	GWA-1A (bg)
8/31/2016	0.22 (J)	0.88	3.7	5.5	1.5	0.42			
9/1/2016							1.9	21	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	0.19 (J)		2.6	4.2					
7/20/2017						0.29	1.5	8.1	
9/20/2017					1.7				1.5
9/21/2017	0.3	0.9	2.7	2.9		0.3		8	
9/22/2017							1.3		
1/8/2018									1.7
1/9/2018	0.16 (J)	1	4.1	1.7	1.9	0.38			
1/10/2018							1	11	
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	3.9	1.9	2 (o)			1.7
7/11/2018	0.18 (J)						1.6	9.6	
10/8/2018		1.1	3.2						1.6
10/9/2018	0.13 (J)			1.7	2.2	0.34	1.5	8	
1/30/2019	0.24 (J)	1	1.7		2.4	0.34			1.9
1/31/2019				4.8			1.9	7.5	
3/27/2019			3.1						1.6
3/28/2019	0.15 (J)	0.98		4.9	2.4	0.3	1.5	7.2	
9/11/2019									1.6
9/12/2019	<0.5 (D)	0.84	1.9	2	2.3	0.3 (J)	1.7	9.1	
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	0.21 (J)		2.9	2.1		0.51	1.9	8	
3/23/2021				9.2	3.6				1.8
3/24/2021	0.25 (J)	1.3	3.1			0.46 (J)	1.7	8.2	
8/17/2021		1.4	2.9		3.5				1.8
8/18/2021	0.36 (J)			1.7		0.37 (J)	1.6	7.4	

Prediction Limit

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Constituent: Calcium (mg/L) Analysis Run 10/11/2021 5:28 PM View: Appendix 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	17	17	
10/9/2018			
1/30/2019	15	16	
1/31/2019			
3/27/2019			
3/28/2019	18	16	
9/11/2019			
9/12/2019	19	15	
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	19	15	4
3/24/2021			
8/17/2021	17	15	3.9
8/18/2021			

Prediction Limit

Constituent: Chloride (mg/L) Analysis Run 10/11/2021 5:28 PM View: Appendix III

Plant McIntosh Client: Southern Company Data: McIntosh LF 3 CCR

	GWA-3A (bg)	GWA-4 (bg)	GWA-5 (bg)	GWC-1	GWC-4A	GWC-2	GWC-5	GWA-1A (bg)	GWC-6
8/31/2016	6.8	3.7	7.1	6.4	19	5.6			
9/1/2016							<1	8	
1/19/2017	6.9	4.6	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	7.4	4.2							
7/19/2017			5.8	4.7		5.6			
7/20/2017					14		6.9		7.2
9/20/2017	7.6							8	
9/21/2017		4.4	6.2	4.9	14	5.5	6.4		
9/22/2017									6.8
1/8/2018								7.9	
1/9/2018	8.6	4.4	9.9	4.7	15	5.6			
1/10/2018							<1		6.9
3/27/2018	9.4	4.9	13					8	
3/28/2018				4.4	14		<1		
3/29/2018						5.3			7.4
7/10/2018	11	5.5	17		13	5.2		7.8	
7/11/2018				4.3			7.4		7.2
10/8/2018		6.6	16					8.5	
10/9/2018	14			4.6	13	5.4	6.8		7.6
1/30/2019	15	6.9	6.5	4.9	12			8.2	
1/31/2019						5.2	8		8.5
3/27/2019			9.1					8.1	
3/28/2019	15	5.7		4.1	11	4.6	7.5		6.9
9/11/2019								7.1	
9/12/2019	16	6.1	9.1	4.9	9.9	5.2	7.6		7.7
3/10/2020	19	5	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	19	5.4						8.1	
9/22/2020			6.3	6.9	11	5.4	8.3		7.6
3/23/2021	22					5.2		8.6	
3/24/2021		6.2	7.4	8.8	10		8.1		7.8
8/17/2021	23	6.1	11					9.1	
8/18/2021				9.9	7.3	5.7	8.2		7.4

Prediction Limit

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Constituent: Chloride (mg/L) Analysis Run 10/11/2021 5:28 PM View: Appendix 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			

Prediction Limit

Constituent: Fluoride (mg/L) Analysis Run 10/11/2021 5:28 PM View: Appendix III

Plant McIntosh Client: Southern Company Data: McIntosh LF 3 CCR

	GWA-3A (bg)	GWA-4 (bg)	GWA-5 (bg)	GWC-1	GWC-4A	GWC-2	GWC-5	GWA-1A (bg)	GWC-6
8/31/2016	<0.1	<0.1	0.13 (J)	<0.1	<0.1	<0.1			
9/1/2016							<0.1	<0.1	
1/19/2017	<0.1	0.089 (J)	<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	0.13 (J)	<0.1	<0.1	<0.1	0.71		
9/22/2017									<0.1
1/8/2018								<0.1	
1/9/2018	<0.1	<0.1	0.13 (J)	<0.1	<0.1	<0.1			
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	0.17 (J)		<0.1	<0.1		<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	<0.1	0.029 (J)	0.089 (J)	<0.1	<0.1			<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	<0.1	0.035 (J)	0.052 (J)	<0.1	<0.1	<0.1	0.078 (J)		<0.1
3/10/2020	0.026 (J)	0.066 (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	<0.1	0.06 (J)						<0.1	
9/22/2020			0.049 (J)	<0.1	<0.1	<0.1	0.1		<0.1
3/23/2021	<0.1					<0.1		<0.1	
3/24/2021		0.12	0.08 (J)	<0.1	<0.1		0.038 (J)		<0.1
8/17/2021	0.064 (J)	0.061 (J)	0.097 (J)					0.038 (J)	
8/18/2021				0.046 (J)	<0.1	<0.1	<0.1		0.04 (J)

Prediction Limit

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Constituent: Fluoride (mg/L) Analysis Run 10/11/2021 5:28 PM View: Appendix 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			

Prediction Limit

Constituent: pH (S.U.) Analysis Run 10/11/2021 5:28 PM View: Appendix III

Plant McIntosh Client: Southern Company Data: McIntosh LF 3 CCR

	GWA-1A (bg)	GWA-5 (bg)	GWC-1	GWA-3A (bg)	GWC-2	GWC-4A	GWC-5	GWC-6	GWA-4 (bg)
10/5/1999	6.63	6.3	5.23	6.42	6.08	5.33	6.13	5.84	6.51
11/12/1999	5.51	4.72	5.02	5.03	5.35	4.6	5.81	5.34	5.46
12/29/1999	5.23	4.8	4.75	4.92	5.19	4.8	5.43	5.01	5.13
2/17/2000	5.29	4.78	4.99	5.13	5.18	4.98	5.49	5.04	5.22
9/13/2000	5.41	4.58	4.81	4.85	5.13	4.75	5.05	5.29	4.86
11/10/2000	5.47	4.5	4.79	5.05	5.2	4.65	5.48	5.99	5.29
1/4/2001	5.44	4.61	4.79	5.08	5.14	4.83	4.99	5.31	5.53
12/11/2001	4.86	4.87	4.86	4.81	4.93	4.73	5.52	5.18	5.37
4/4/2002	5.1	4.96	5.39	4.92	5	5.05	5.5	5.31	5.32
12/6/2002	4.917 (D)	4.4 (D)	4.63	5.07 (D)	5.02	4.65 (D)	4.58 (D)	4.9 (D)	5.3 (D)
6/28/2003	4.91	3.77	4.19	4.69	4.92	4	4.32	4.82	4.73
12/13/2003	4.87	4.25	5.2	4.81	4.82	4.97	4.73	4.8	4.53
5/28/2004	4.98	3.9	4.57	3.93	4.6	4.51	4.5	5.18	4.22
12/10/2004	4.35	3.71	4.16	4.25	4.29	4.09	4.28	4.43	4.26
2/5/2005					4.43			4.6	
6/24/2005	4.82	3.94	4.23	4.5	4.56	4.27	4.56	4.93	4.47
12/13/2005	4.66	3.94	4.24	4.52	4.34	4.54	4.49	4.36	4.47
7/12/2006	5.49	5.56	4.36	3.59	4.38	4.57	4.8	5.5	3.68
7/11/2014	5.55					4.64	4.83	5.54	
7/12/2014		3.88	3.23	5.44	5.68				5.33
7/15/2015	5.13	4.19	4.85	4.98	5.22	4.67	4.66	5.22	4.94
1/16/2016	5.06	4.35		4.87			5.05	4.9	4.85
1/17/2016					6.07				
8/31/2016		4.53	5.02	4.92	5.49	4.89			4.79
9/1/2016							7.21	5	
1/19/2017		4.79		4.86					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		4.4	5	4.83	4.97	4.79	7.39	5.25	4.91
3/27/2018	5.27	4.11		4.91					4.92
3/28/2018			5.08			4.44	7.31	5.14	
3/29/2018					5.15				
7/10/2018	5.17	4.62		4.87	5.37	4.88		5.13	4.94
7/11/2018			5.07				7.09		
10/8/2018	5.18	4.51		4.84					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	4.72	4.81	4.88		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			4.99	4.8	5.38	4.68	5.46	4.85	4.99
9/11/2019	5.1								
9/12/2019		4.54	4.95	4.99	5.14	4.89	5.96	4.96	4.92

Prediction Limit

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Constituent: pH (S.U.) Analysis Run 10/11/2021 5:28 PM View: Appendix III
Plant McIntosh Client: Southern Company Data: McIntosh LF 3 CCR

	GWA-1A (bg)	GWA-5 (bg)	GWC-1	GWA-3A (bg)	GWC-2	GWC-4A	GWC-5	GWC-6	GWA-4 (bg)
3/10/2020	5.48	4.81		4.79					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	4.62		4.76					4.78
8/18/2021			4.94		4.98	4.76	4.9	5.03	

Prediction Limit

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Constituent: pH (S.U.) Analysis Run 10/11/2021 5:28 PM View: Appendix 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

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Constituent: pH (S.U.) Analysis Run 10/11/2021 5:28 PM View: Appendix 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			

Prediction Limit

Constituent: Sulfate (mg/L) Analysis Run 10/11/2021 5:28 PM View: Appendix III

Plant McIntosh Client: Southern Company Data: McIntosh LF 3 CCR

	GWA-3A (bg)	GWA-4 (bg)	GWA-5 (bg)	GWC-1	GWC-4A	GWC-2	GWC-5	GWA-1A (bg)	GWC-6
8/31/2016	<1	7	21	<1	1.7	<1			
9/1/2016							110	<1	
1/19/2017	<1	6.3	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	<1	4.7							
7/19/2017			12	<1		<1			
7/20/2017					0.83 (J)		25		0.84 (J)
9/20/2017	<1							<1	
9/21/2017		4.5	15	<1	1.1	<1	19		
9/22/2017									1.1
1/8/2018								<1	
1/9/2018	<1	3	25	<1	0.79 (J)	<1			
1/10/2018							25		0.95 (J)
3/27/2018	<1	3.8	31					<1	
3/28/2018				<1	0.79 (J)		26		
3/29/2018						<1			0.78 (J)
7/10/2018	<1	3.4	19		0.76 (J)	<1		<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	0.41 (J)	3.5	15	0.58 (J)	0.9 (J)			1.2	
1/31/2019						0.57 (J)	4.8		0.86 (J)
3/27/2019			20					<1	
3/28/2019	0.44 (J)	3		0.67 (J)	1.1	<1	3		0.96 (J)
9/11/2019								<1	
9/12/2019	0.69 (J)	3.7	10	0.78 (J)	1.1	0.43 (J)	4.9		1
3/10/2020	3	7.2	15					1.5	
3/11/2020				3.5					2.2
3/31/2020					2.5	1	11		
4/2/2020	<1								
9/21/2020	<1	5						<1	
9/22/2020			12	0.63 (J)	0.76 (J)	<1	4.3		0.59 (J)
3/23/2021	<1					0.8 (J)		<1	
3/24/2021		7	16	0.77 (J)	<1		<1		0.76 (J)
8/17/2021	<1	5	11					<1	
8/18/2021				<1	<1	1.2	<1		1.2

Prediction Limit

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Constituent: Sulfate (mg/L) Analysis Run 10/11/2021 5:28 PM View: Appendix 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			

Prediction Limit

Constituent: Total Dissolved Solids (mg/L) Analysis Run 10/11/2021 5:28 PM View: Appendix III

Plant McIntosh Client: Southern Company Data: McIntosh LF 3 CCR

	GWA-4 (bg)	GWA-5 (bg)	GWC-4A	GWA-3A (bg)	GWC-1	GWC-2	GWC-5	GWC-6	GWA-1A (bg)
8/31/2016	14 (D)	66 (D)	36 (D)	42 (D)	18 (D)	42 (D)			
9/1/2016							500 (D)		2200 (o)
1/19/2017	34 (D)	48 (D)		52 (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	26			32					
7/19/2017		48			52	42			
7/20/2017			16				210	64	
9/20/2017				16					26
9/21/2017	24	76	24		38	46	280		
9/22/2017								66	
1/8/2018									16
1/9/2018	16	18	8	4 (J)	4 (J)	10			
1/10/2018							94	54	
3/27/2018	<10	48		30					40
3/28/2018			26		4 (J)		60		
3/29/2018						52		78	
7/10/2018	14	76	26	30		38			90
7/11/2018					32		290	78	
10/8/2018	36	8							70
10/9/2018			16	56	22	52	44	70	
1/30/2019	40	67	37	41	24				82
1/31/2019						45	180	84	
3/27/2019		70							66
3/28/2019	24		28	36	25	45	110	62	
9/11/2019									53
9/12/2019	10	20	<10	<10	29	28	110	80	
3/10/2020	39	67		49					67
3/11/2020					37			67	
3/31/2020			52			50	750		
4/2/2020				61					
9/21/2020	31			61					31
9/22/2020		53	36		<10	30	440	30	
3/23/2021				76		56			47
3/24/2021	36	60	27		32		130	36	
8/17/2021	33	50		83					36
8/18/2021			29		32	37	160	36	

Prediction Limit

Page 2

Constituent: Total Dissolved Solids (mg/L) Analysis Run 10/11/2021 5:28 PM View: Appendix 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			

FIGURE G.

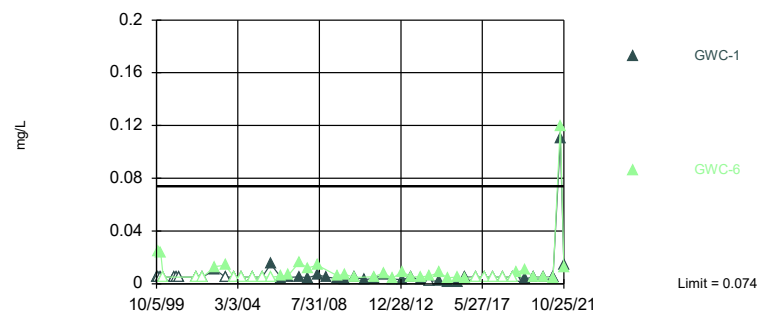
Appendix I Interwell Prediction Limits - Resample Results

Plant McIntosh Client: Southern Company Data: McIntosh LF 3 CCR Printed 11/11/2021, 7:25 PM

<u>Constituent</u>	<u>Well</u>	<u>Upper Lim.</u>	<u>Lower Lim.</u>	<u>Date</u>	<u>Observ.</u>	<u>Sig.</u>	<u>Bq N</u>	<u>Bq Mean</u>	<u>Std. Dev.</u>	<u>%NDs</u>	<u>ND Adj.</u>	<u>Transform</u>	<u>Alpha</u>	<u>Method</u>
Zinc (mg/L)	GWC-1	0.074	n/a	10/25/2021	0.014	No	208	n/a	n/a	26.92	n/a	n/a	0.0000492	NP Inter (normality) 1 of 2
Zinc (mg/L)	GWC-6	0.074	n/a	10/25/2021	0.013	No	208	n/a	n/a	26.92	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 208 background values. 26.92% 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 11/11/2021 7:24 PM View: Appendix I - Resample
Plant McIntosh Client: Southern Company Data: McIntosh LF 3 CCR

Prediction Limit

Constituent: Zinc (mg/L) Analysis Run 11/11/2021 7:25 PM View: Appendix I - Resample

Plant McIntosh Client: Southern Company Data: McIntosh LF 3 CCR

	GWA-1A (bg)	GWC-1	GWA-5 (bg)	GWA-4 (bg)	GWA-3A (bg)	GWC-6	GWA-7A (bg)	GWA-2B (bg)	GWA-1B (bg)
10/5/1999	0.043	<0.005	<0.005	0.039	0.023	0.063 (o)			
11/12/1999	0.035	<0.005	<0.005	0.025	<0.005	0.025			
12/29/1999	0.058	<0.005	<0.005	0.023	<0.005	0.024			
2/17/2000	0.051	<0.005	<0.005	<0.005	<0.005	<0.005			
9/13/2000	<0.005	<0.005	0.021	0.035	<0.005	0.061 (o)			
11/10/2000	<0.005	<0.005	<0.005	0.023	<0.005	0.061 (o)			
1/4/2001	<0.005	<0.005	<0.005	0.027	<0.005	0.05 (o)			
12/11/2001	<0.005	<0.005	<0.005	0.036	<0.005	<0.005			
4/4/2002	<0.005	<0.005	<0.005	0.038	<0.005	<0.005			
12/6/2002	<0.005	0.011	0.06	0.033	<0.005	0.013			
6/28/2003	<0.005	<0.005	0.19 (o)	0.018	<0.005	0.014			
12/13/2003	<0.005	<0.005	0.067	0.013	<0.005	<0.005			
5/28/2004	0.034	<0.005	0.068	<0.005	<0.005	<0.005			
12/10/2004	0.021	<0.005	0.039	<0.005	<0.005	<0.005			
6/24/2005	<0.005	<0.005	0.033	<0.005	<0.005	<0.005			
12/13/2005	0.013	0.015	0.039	0.011	<0.005	<0.005			
7/12/2006	0.074	0.0042	0.022	0.0055	0.0047	0.0057			
12/1/2006	0.048	0.0047	0.018	0.0052	0.065	0.0068			
6/21/2007	0.067	0.0052	0.058	0.0062	0.008	0.016			
12/15/2007	0.053	0.0046	0.0072	0.0055	0.0043	0.012			
6/21/2008		0.0067		0.011					
6/22/2008	0.024		0.011		0.0062	0.014			
12/6/2008		0.0054	0.011	0.008	0.051				
12/7/2008	0.0087					0.044 (o)			
7/10/2009					0.0043				
7/11/2009	0.045	0.0038	0.013	0.011		0.0062			
12/22/2009			0.013						
12/23/2009	0.054	0.0029		0.0051	0.0039	0.007			
6/23/2010		<0.005	0.0084	0.0031	<0.005				
6/24/2010	0.0065					0.0049			
1/8/2011		0.0032	0.0089	0.0035	0.0037				
1/9/2011	0.022								
7/10/2011		0.004	0.0084	0.0081	0.0047				
7/11/2011	0.0032					0.0052			
1/19/2012				0.017	0.0045				
1/20/2012	0.0089	0.0067	0.0094			0.0081			
7/12/2012		0.0036	0.0098	0.01	0.0033				
7/13/2012	0.012					0.004			
1/21/2013	0.024	0.0031	0.007	0.013	0.0038	0.0093			
7/20/2013	0.0068	<0.005	0.0074	<0.005	0.004	0.0054			
1/17/2014	0.02	0.0031	0.0092	0.0066	0.005	0.0054			
7/12/2014	0.0055	<0.0025 (J)	0.013	0.0054	0.004	0.0057			
1/15/2015				0.0076	0.0056				
1/16/2015	0.0043	0.002 (J)	0.0081			0.0084			
7/15/2015	0.0026	0.0015 (J)	0.009	0.0053	0.0034	0.0046			
1/16/2016	0.0035	0.0015 (J)	0.007	0.0048	0.0038	0.0051			
6/22/2016	0.00805 (JD)	<0.005	0.0091 (J)	0.0038 (J)	0.00575 (JD)				
6/23/2016						0.0041 (J)			
1/19/2017			0.0065 (J)	<0.005	<0.005				
1/23/2017		<0.005							
1/27/2017						<0.005			
2/28/2017	<0.005								

Prediction Limit

Page 2

Constituent: Zinc (mg/L) Analysis Run 11/11/2021 7:25 PM View: Appendix I - Resample
Plant McIntosh Client: Southern Company Data: McIntosh LF 3 CCR

	GWA-1A (bg)	GWC-1	GWA-5 (bg)	GWA-4 (bg)	GWA-3A (bg)	GWC-6	GWA-7A (bg)	GWA-2B (bg)	GWA-1B (bg)
7/17/2017	<0.005								
7/18/2017				<0.005	<0.005				
7/19/2017		<0.005	0.0099 (J)						
7/20/2017						<0.005			
1/8/2018	<0.005								
1/9/2018		<0.005	0.014 (J)	0.0072 (J)	<0.005				
1/10/2018						<0.005			
7/10/2018	<0.005		0.0089 (J)	<0.005	<0.005				
7/11/2018		<0.005				<0.005			
1/30/2019	<0.005	<0.005	0.0057 (J)	0.006 (J)	0.0058 (J)		0.011 (J)	0.013 (J)	
1/31/2019						<0.005			
3/27/2019	<0.005		0.01 (J)						
3/28/2019		<0.005		<0.005	<0.005	0.0084 (J)	0.0086 (J)	0.014 (J)	
9/11/2019	0.0062								
9/12/2019		0.0039 (J)	0.0074	0.0073	0.0081	0.011	0.014	0.0075	
3/10/2020	<0.005		0.0071	0.0079	0.0079			0.0061	
3/11/2020		<0.005				0.0047 (J)	0.0099		
4/2/2020					0.011				
9/21/2020	<0.005			0.013	0.0055		0.007		
9/22/2020		<0.005	0.039			0.0053		0.0066	
3/23/2021	<0.005				0.0092		0.0096	0.0066	0.0098
3/24/2021		<0.005	0.0085	0.0058		0.0043 (J)			
8/17/2021	0.048		0.024	0.029	0.014		0.052	0.026	0.024
8/18/2021		0.11				0.12			
10/25/2021		0.014				0.013			

FIGURE H.

Appendix III Interwell Prediction Limits - Resample Results

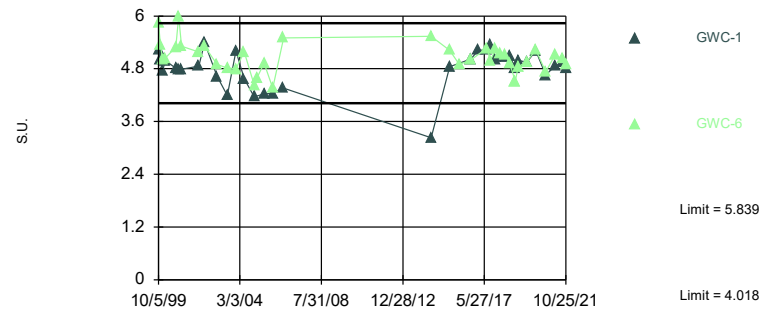
Plant McIntosh Client: Southern Company Data: McIntosh LF 3 CCR Printed 11/11/2021, 7:18 PM

<u>Constituent</u>	<u>Well</u>	<u>Upper Lim.</u>	<u>Lower Lim.</u>	<u>Date</u>	<u>Observ.</u>	<u>Sig.</u>	<u>Bg N</u>	<u>Bg Mean</u>	<u>Std. Dev.</u>	<u>%NDs</u>	<u>ND Adj.</u>	<u>Transform</u>	<u>Alpha</u>	<u>Method</u>
pH (S.U.)	GWC-1	5.839	4.018	10/25/2021	4.82	No	159	4.928	0.5092	0	None	No	0.000752	Param Inter 1 of 2
pH (S.U.)	GWC-6	5.839	4.018	10/25/2021	4.89	No	159	4.928	0.5092	0	None	No	0.000752	Param Inter 1 of 2

Within Limits

Prediction Limit

Interwell Parametric



Background Data Summary: Mean=4.928, Std. Dev.=0.5092, n=159. Normality test: Chi Squared @alpha = 0.01, calculated = 12.26, 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 11/11/2021 7:17 PM View: Appendix III - Resample

Plant McIntosh Client: Southern Company Data: McIntosh LF 3 CCR

Prediction Limit

Constituent: pH (S.U.) Analysis Run 11/11/2021 7:18 PM View: Appendix III - Resample

Plant McIntosh Client: Southern Company Data: McIntosh LF 3 CCR

	GWA-1A (bg)	GWA-5 (bg)	GWA-4 (bg)	GWC-6	GWA-3A (bg)	GWC-1	GWA-7A (bg)	GWA-2B (bg)	GWA-1B (bg)
10/5/1999	6.63	6.3	6.51	5.84	6.42	5.23			
11/12/1999	5.51	4.72	5.46	5.34	5.03	5.02			
12/29/1999	5.23	4.8	5.13	5.01	4.92	4.75			
2/17/2000	5.29	4.78	5.22	5.04	5.13	4.99			
9/13/2000	5.41	4.58	4.86	5.29	4.85	4.81			
11/10/2000	5.47	4.5	5.29	5.99	5.05	4.79			
1/4/2001	5.44	4.61	5.53	5.31	5.08	4.79			
12/11/2001	4.86	4.87	5.37	5.18	4.81	4.86			
4/4/2002	5.1	4.96	5.32	5.31	4.92	5.39			
12/6/2002	4.917 (D)	4.4 (D)	5.3 (D)	4.9 (D)	5.07 (D)	4.63			
6/28/2003	4.91	3.77	4.73	4.82	4.69	4.19			
12/13/2003	4.87	4.25	4.53	4.8	4.81	5.2			
5/28/2004	4.98	3.9	4.22	5.18	3.93	4.57			
12/10/2004	4.35	3.71	4.26	4.43	4.25	4.16			
2/5/2005				4.6					
6/24/2005	4.82	3.94	4.47	4.93	4.5	4.23			
12/13/2005	4.66	3.94	4.47	4.36	4.52	4.24			
7/12/2006	5.49	5.56	3.68	5.5	3.59	4.36			
7/11/2014	5.55			5.54					
7/12/2014		3.88	5.33		5.44	3.23			
7/15/2015	5.13	4.19	4.94	5.22	4.98	4.85			
1/16/2016	5.06	4.35	4.85	4.9	4.87				
8/31/2016		4.53	4.79		4.92	5.02			
9/1/2016				5					
1/19/2017		4.79	4.72		4.86				
1/23/2017						5.22			
2/28/2017	5.33								
7/17/2017	5.09								
7/18/2017			4.96		5.02				
7/19/2017		4.83		5.27		5.23			
9/20/2017	5.29				4.72				
9/21/2017		4.57	4.7	4.99		5.34			
1/8/2018	5.26				4.92				
1/9/2018		4.4	4.91	5.25	4.83	5			
3/27/2018	5.27	4.11	4.92		4.91				
3/28/2018				5.14		5.08			
7/10/2018	5.17	4.62	4.94	5.13	4.87				
7/11/2018						5.07			
10/8/2018	5.18	4.51	4.76		4.84		5.79	5.29	
10/9/2018				4.93		5.1			
1/30/2019	5.17	4.72	4.94	4.52	4.88	4.81	5.15	5.08	
1/31/2019				4.52					
3/27/2019	5.09	4.56							
3/28/2019			4.99	4.85	4.8	4.99	5.62	4.93	
9/11/2019	5.1								
9/12/2019		4.54	4.92	4.96	4.99	4.95	5.1	5.57	
3/10/2020	5.48	4.81	4.59		4.79			5.56	
3/11/2020				5.23		5.21	5.05		
4/2/2020					4.75				
9/21/2020	4.95		4.6		4.69		5.35		
9/22/2020		4.99		4.73		4.66		5.83	
3/23/2021	5.17				4.6		5.01	5.61	5.63

Prediction Limit

Page 2

Constituent: pH (S.U.) Analysis Run 11/11/2021 7:18 PM View: Appendix III - Resample
Plant McIntosh Client: Southern Company Data: McIntosh LF 3 CCR

	GWA-1A (bg)	GWA-5 (bg)	GWA-4 (bg)	GWC-6	GWA-3A (bg)	GWC-1	GWA-7A (bg)	GWA-2B (bg)	GWA-1B (bg)
3/24/2021		4.37	4.42	5.11		4.86			
8/17/2021	5.24	4.62	4.78		4.76		5.51	5.82	5.83
8/18/2021				5.03		4.94			
10/25/2021				4.89		4.82			



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