Georgia Power

Plant McIntosh Ash Pond 1

Permit No. 051-011D(CCR)
Effingham County

2025 SEMIANNUAL GROUNDWATER MONITORING AND CORRECTIVE ACTION REPORT

Atlantic Coast Consulting, Inc.

PROFESSIONAL CERTIFICATION

This *2025 Semiannual Groundwater Monitoring and Corrective Action Report, Georgia Power Company – Plant McIntosh Ash Pond 1* 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), specifically § 257.90(e), and the Georgia Environmental Protection Division Rules for Solid Waste Management 391-3-4-.10 by a qualified groundwater scientist or engineer with Atlantic Coast Consulting, Inc. (ACC). I hereby certify that I am a qualified groundwater scientist, in accordance with the Georgia Rules of Solid Waste Management 391-3-4-.01.

ATLANTIC COAST CONSULTING, INC.



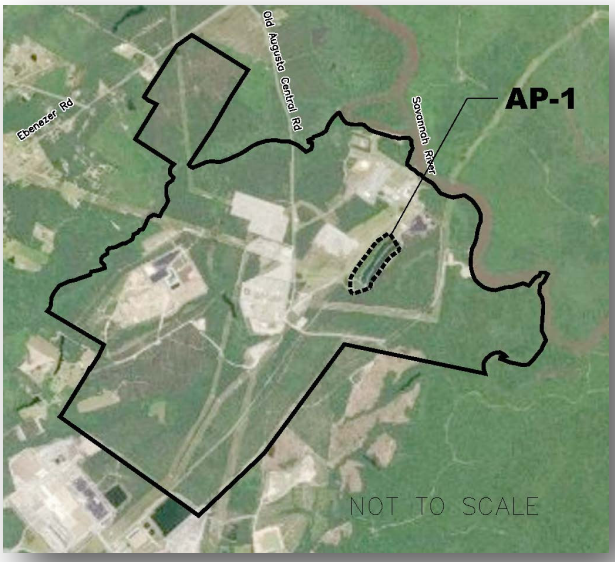
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SUMMARY

This summary of the *2025 Semiannual Groundwater Monitoring and Corrective Action Report* provides the groundwater monitoring and corrective action program status from January through June 2025 for Georgia Power Company (Georgia Power) Plant McIntosh Ash Pond 1 (the Site or AP-1). This summary was prepared by Atlantic Coast Consulting, Inc. (ACC) on behalf of Georgia Power to meet the requirements listed in Part A, Section 6[1] of the United States Environmental Protection Agency (US EPA) Coal Combustion Residuals (CCR) Rule (40 Code of Federal Regulations [CFR] 257 Subpart D).

Plant McIntosh is located at 981 Old Augusta Road Central, approximately 4 miles northeast of the City of Rincon, in Effingham County, Georgia. AP-1 is located on the eastern portion of the Plant McIntosh property. The Georgia Environmental Protection Division (EPD) approved the CCR permit 051-011D(CCR) for the Site on February 6, 2020. The Site has been closed by removal of CCR material.



Plant McIntosh and Ash Pond 1 (AP-1)

Groundwater at the Site is monitored using a comprehensive monitoring system of wells installed to meet federal and state monitoring requirements. Routine sampling and reporting began after background groundwater conditions were established between May 2016 and April 2017. Based on groundwater conditions at the Site, an assessment monitoring program was established on January 15, 2018. An Alternate Source Demonstration (ASD) completed in January 2019 and a November 2019 supplement presented lines of evidence demonstrating that statistically significant levels (SSL) of cobalt and lithium in groundwater were not due to a release from the unit. In response to the cobalt and lithium 2018 ASD and Supplemental 2019 ASD, Georgia EPD provided a letter of non-concurrence on September 20, 2024 (Georgia EPD, 2024). Georgia EPD noted that if further information becomes available, Georgia Power may provide updated information to support an ASD but requested Georgia Power initiate an Assessment of Corrective Measures (ACM). Though cobalt is no longer an SSL, a Notice of Initiation of Assessment of Corrective Measures was placed in the Operating Record on December 19, 2024. The ACM report for lithium was submitted to Georgia EPD May 16, 2025. During this January through June 2025 semiannual reporting period, the Site remained in assessment monitoring.

During the reporting period, ACC conducted a semiannual sampling event in February 2025. Groundwater samples were submitted to Eurofins Environment Testing America (Eurofins) for analysis. Per the CCR Rule, groundwater results for February 2025 data were evaluated

[1] 80 FR 21468, Apr. 17, 2015, as amended at 81 FR 51807, Aug. 5, 2016; 83 FR 36452, July 30, 2018; 85 FR 53561, Aug. 28, 2020

in accordance with the certified statistical methods. Those evaluations showed statistical significance for Appendix III[2] and Appendix IV[3] parameters in wells as summarized in the table below.

Appendix III Parameter	**February 2025**
Boron	MGWC-1, MGWC-2, MGWC-3, MGWC-7, MGWC-8
Calcium	MGWC-1, MGWC-8
Chloride	MGWC-1, MGWC-2, MGWC-3, MGWC-8
Sulfate	MGWC-1, MGWC-2, MGWC-3, MGWC-7, MGWC-8
TDS	MGWC-1, MGWC-2, MGWC-8
Appendix IV Parameter	**February 2025**
Lithium	MGWC-7

Based on review of the Appendix III and Appendix IV statistical results completed for the groundwater monitoring and corrective action program from January through June 2025, the Site will continue in assessment monitoring. Georgia Power will continue routine groundwater monitoring and reporting at the Site. Reports will be posted to Georgia Power's website and provided to the Georgia EPD semiannually.

[2] Boron, calcium, chloride, fluoride, pH, sulfate, and total dissolved solids (TDS)
[3] Antimony, arsenic, barium, beryllium, cadmium, chromium, cobalt, fluoride, lead, lithium, mercury, molybdenum, selenium, thallium, and radium 226 + 228

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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, Atlantic Coast Consulting, Inc. (ACC) has prepared this *2025 Semiannual Groundwater Monitoring and Corrective Action Report* to document groundwater monitoring activities conducted at Georgia Power Company's (Georgia Power) Plant McIntosh Ash Pond 1 (the Site or AP-1). To specify groundwater monitoring requirements, Georgia EPD Rule 391-3-4-.10(6)(a) incorporates by reference the US EPA CCR Rule 40 CFR § 257 Subpart D. For ease of reference, the US EPA CCR Rules are cited within this report.

A permit application to comply with Georgia EPD Rules was submitted in November 2018 and was approved in February 2020. A request for minor modification was submitted to Georgia EPD August 6, 2024 for the five year permit review in accordance with the Georgia EPD Rules for Solid Waste Management Chapter, 391-3-4-.02(1). This minor modification was approved by Georgia EPD in a letter dated October 17, 2024. Monitoring for the CCR Unit is performed in accordance with the permit monitoring requirements [Georgia EPD Permit No. 051-011D(CCR), 40 CFR § 257.90 through 257.91 and § 257.93 through 257.95 of the Federal CCR Rule, and the Georgia EPD Rules for Solid Waste Management 391-3-4-.10(6)(a)].

This report documents activities completed for the groundwater monitoring program from January through June 2025 in accordance with 40 CFR § 257.90(e). This report includes results of the semiannual assessment monitoring event conducted in February 2025.

1.1 Site Description and Background

Plant McIntosh is located at 981 Old Augusta Road Central, 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. AP-1 is located on the eastern portion of the plant property.

All CCR material has been removed from Plant McIntosh AP-1. In a letter dated October 5, 2021, Georgia EPD acknowledged that all CCR removal activities had been completed at the Site. The former waste placement area of the Site has been graded and restored.

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 30 and -20 feet North American Vertical Datum of 1988 (NAVD88). The predominant groundwater flow direction across Plant McIntosh is to the east.

1.3 Groundwater Monitoring System and CCR Unit Description

Pursuant to 40 CFR § 257.91, a groundwater monitoring system was installed within the uppermost aquifer at AP-1. The monitoring system is designed to monitor groundwater passing

the waste boundary of the CCR Unit within the uppermost aquifer. The CCR Unit included four cells (Cell A through Cell D). Each of these cells have been closed by removal of CCR. CCR removal has been certified as complete, and the area has been graded and restored. A figure depicting the former cell layout is provided as Figure 2, CCR Removal Map. Figure 3, Well Location Map, shows the monitoring well locations. Wells were installed to serve as upgradient and downgradient monitoring points based on groundwater flow direction (Table 1, Monitoring Well Network Summary).

2.0 GROUNDWATER MONITORING ACTIVITIES

Pursuant to 40 CFR § 257.90(e), the following describes monitoring-related activities performed from January through June 2025 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 February 2025 from each detection well in the certified monitoring system shown on Figure 3. Additionally, assessment monitoring wells MGWC-19 and MGWC-20 were sampled in February 2025.

2.1 Monitoring Well Installation and Maintenance

There were no changes to the groundwater monitoring system during the semiannual reporting period depicted in Figure 3. The network remained the same as in the previous reporting year (2024). 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 necessary for sampling under safe and clean conditions. Well inspection checklists completed during the semiannual sampling events are included in Appendix A, Laboratory Analytical and Field Sampling Reports. Any issues identified in well inspection checklists are addressed prior to the next monitoring event.

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 (Official Code of Georgia Annotated § 12-5-134(5)(d)(vii)). In February 2025, monitoring wells were inspected, and no necessary corrective actions were identified as documented in Appendix A. Well inspections and corrective actions were performed under the direction of a professional geologist or engineer registered in the State of Georgia.

2.2 Assessment Monitoring

Based on results of the *2017 Annual Groundwater and Corrective Action Monitoring Report*, Georgia Power initiated an assessment monitoring program on January 15, 2018. A notice of assessment monitoring was placed in the Operating Record on May 15, 2018. Monitoring wells were sampled for Appendix III and Appendix IV parameters in February 2025 as part of the semiannual assessment monitoring event. A summary of groundwater sampling events completed during the semiannual reporting period is provided in Table 2, Groundwater Event Summary. Field and laboratory reporting of sampling activities are provided in Appendix A.

2.3 Additional Sampling

Additional geochemical analytical data was collected during the February 2025 event, including major cations, total alkalinity, bicarbonate alkalinity and carbonate alkalinity for evaluation purposes only. Groundwater samples were collected from MGWC-19 and MGWC-20 during the February 2025 event for delineation purposes following Georgia EPD non-concurrence of the

Alternate Source Demonstration (ASD) and initiation of Assessment of Corrective Measures (ACM) effort (discussed further in report Section 5.0).

3.0 SAMPLE METHODOLOGY & ANALYSIS

The following subsections 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 levels were measured and recorded to the nearest 0.01 foot within a 24-hour period from the certified well network and piezometers at the Site. Groundwater levels recorded during the monitoring events are summarized in Table 3, Summary of Groundwater Elevations. Groundwater levels and top of casing elevations were used to calculate groundwater elevations and develop the potentiometric surface elevation contour map provided in Figure 4, Potentiometric Contour Map – February 2025. The general direction of groundwater flow across AP-1 is predominately toward the east. The groundwater flow patterns observed during the February 2025 monitoring event are consistent with historical observations.

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

Specifically:

Equation

$$v = \frac{K(i)}{ne}$$

where: v = groundwater velocity
K = hydraulic conductivity
i = hydraulic gradient
ne = effective porosity

Groundwater flow velocities were calculated for the Site based on hydraulic gradients, average hydraulic conductivity based on previous slug test data, and an estimated effective porosity of 0.20 (based on the default value for silty sands, US EPA, 1989). The groundwater flow velocity has been calculated and is tabulated on Table 4, Horizontal Groundwater Flow Velocity Calculations – February 2025. The average calculated flow velocity was 0.041 feet per day during the February 2025 event.

This calculated groundwater velocity across the Site is generally consistent with historical calculations and within 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 either a peristaltic pump or non-dedicated QED bladder pump. In all cases, pump intakes were located at the midpoint of the well screen (or as appropriate determined by the water level). All non-disposable equipment was decontaminated before use and between well locations using as a guide the procedures described in the latest version of the Region 4 US EPA Lab Services and Applied Science Division (LSASD) Operating Procedure for Field Equipment Cleaning and Decontamination (US EPA, 2020).

An AquaTroll multiparameter sonde (In-Situ field instrument) was used to monitor and record field water quality parameters (pH, specific conductance, oxidation-reduction potential [ORP], dissolved oxygen [DO], and temperature) during well purging prior to sampling. Turbidity was measured using a Hach 2100Q portable turbidity meter. Groundwater samples were collected when the following stabilization criteria were met:

- ± 0.1 standard units for pH
- ± 5% for specific conductance
- ± 10% or 0.2 milligrams per Liter (mg/L), whichever is greater, for DO where DO > 0.5 mg/L. No stabilization criterion applies if DO < 0.5 mg/L
- Turbidity measurements less than 5 nephelometric turbidity units (NTUs)

Once parameter stabilization was achieved, samples were collected directly into appropriately preserved laboratory-supplied sample containers. Sample bottles were placed in ice-packed coolers and submitted to Eurofins Environment Testing America (Eurofins) of Savannah, GA following chain-of-custody protocol. Stabilization logs for each well during each monitoring event are included in Appendix A.

3.3 Laboratory Analyses

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 event are presented in Appendix A.

Analytical data collected during the monitoring period are summarized in Table 5, Groundwater Analytical Data Summary – February 2025. Additional geochemical analytical data collected during February 2025 are also summarized in Table 5. Laboratory reporting including analytical methods used for groundwater sample analysis are provided in the analytical laboratory reports included 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 at least one set of QA/QC equipment rinsate blanks per every 10 samples and at least one set of QA/QC field blanks and field duplicate samples per every 20 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 spike/matrix spike duplicate recoveries and relative percent differences (RPDs), post digestion spikes, laboratory and field duplicate RPDs, field and equipment blanks, and reporting limits. The validated data meet project objectives and the associated data validation reports are provided in Appendix A, along with the laboratory reports.

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

4.0 STATISTICAL ANALYSIS

Groundwater monitoring data collected during the February 2025 semiannual assessment monitoring event were statistically analyzed by Groundwater Stats Consulting, LLC pursuant to 40 CFR § 257.95 following the Professional Engineer-certified statistical method. Appendix III detection monitoring parameters were statistically analyzed to determine if parameters have returned to background levels. Appendix IV assessment monitoring parameters were evaluated to determine if concentrations statistically exceeded the established groundwater protection standard (GWPS). Statistical analysis methods and results are provided in Appendix B, Statistical Analysis Reports. The following subsections and Table 6, Statistical Method Summary, provide an overview of the statistical method used to evaluate Appendix III and IV parameters and statistical analyses results.

4.1 Statistical Analysis Methods

The Sanitas groundwater statistical software was used to perform the statistical analyses. Sanitas is a decision-support software package, that incorporates the statistical tests required of Subtitle C and D facilities by US EPA regulations and guidance as recommended in the US EPA document *Statistical Analysis of Groundwater Data at RCRA Facilities Unified Guidance* (Unified Guidance) (US EPA, 2009).

4.1.1 Appendix III Statistical Methods

Statistical tests used to evaluate the groundwater monitoring data consist of interwell prediction limits combined with a 1-of-2 verification resample plan for each of the Appendix III parameters. Interwell prediction limits pool upgradient well data to establish a background limit for an individual parameter, and the most recent sample from each downgradient well is compared to the same limit for each parameter. If the most recent sample exceeds its respective background statistical limit, an initial statistically significant increase (SSI) is identified.

In 1-of-2 verification resampling, one independent resample may be collected and evaluated within 90 days to determine whether the initial exceedance is verified. If the resample exceeds the prediction limit, the initial exceedance is verified, and an SSI is identified. When a resample result does not verify the initial result, and does not exceed the prediction limit, there is no SSI. If resampling is not performed, the initial exceedance is a confirmed exceedance.

4.1.2 Appendix IV Statistical Methods

Appendix IV parameters were sampled during the February 2025 semiannual assessment event. To statistically compare groundwater data to GWPS, confidence intervals are constructed for each of the detected Appendix IV parameters in each downgradient well. Those confidence intervals are compared to the GWPS. Only when the entire confidence interval is above a GWPS is the well/parameter pair considered to exceed its GWPS. If there is an exceedance of the established standard, a statistically significant level (SSL) exceedance is identified.

US EPA revised the Federal CCR Rule on July 30, 2018, updating GWPS for cobalt, lead, lithium, and molybdenum. US EPA's updated GWPS were incorporated into Georgia EPD's CCR Rule 391-3-4-.10(6)(a) on February 22, 2022. The CCR Rule GWPS is as follows:

(1) The federally established maximum contaminant level (MCL) under 40 CFR § 141.62 and 141.66.
(2) Where an MCL has not been established, the levels specified by the CCR Rule:

(i). Cobalt 0.006 mg/L;
(ii). Lead 0.015 mg/L;
(iii). Lithium 0.040 mg/L; and
(iv). Molybdenum 0.100 mg/L.

(3) Background levels for parameters where the background level is higher than the MCL.

On February 22, 2022, Georgia EPD updated the Rules for Solid Waste Management 391-3-4-.10(6) to incorporate updated Federal GWPS where an MCL has not been established, except when site specific background concentrations of these parameters are higher. Statistical evaluations for the February 2025 event reflect these changes.

Following the above rule requirements, GWPS have been established for statistical comparison of Appendix IV parameters. Table 7, Summary of Background Levels and GWPS, summarizes the background limit established for each parameter and the GWPS used for the data for February 2025.

Note that when there are no detections present in downgradient wells for a given parameter, statistical analyses are not required. A substitution of the most recent reporting limit is used for non-detect data. Additional details are presented in the Statistical Analyses provided in Appendix B.

4.2 Statistical Analysis Results

4.2.1 Semiannual Appendix III Statistical Results

Based on review of the Appendix III statistical analysis presented in Appendix B, Appendix III parameters have not returned to background levels. Exceedances were noted and are presented on the prediction limit summary tables included in Appendix B. Assessment monitoring should continue pursuant to 40 CFR § 257.95(f).

4.2.2 Semiannual Appendix IV Statistical Results

Based on review of the Appendix IV statistical analyses presented in Appendix B, the following parameters were found to statistically exceed the GWPS during the February 2025 sampling event:

- Lithium: MGWC-7

SSIs of Appendix III and SSLs of Appendix IV parameters were identified at the Site during the sampling events conducted in February 2025. An ASD for lithium was included in the *2018 Annual Groundwater Monitoring and Corrective Action Report and* later supported by the *Supplemental Information for the Ash Pond 1 Alternate Source Demonstration*, dated November 21, 2019. The demonstration showed the source of lithium in groundwater is not due to a release from the unit.

In response to the lithium 2018 ASD and Supplemental 2019 ASD, Georgia EPD provided a letter of non-concurrence on September 20, 2024 (Georgia EPD, 2024). Georgia EPD noted that if further information becomes available, Georgia Power may provide updated information to support an ASD but requested Georgia Power initiate an ACM (Georgia EPD, 2024). Georgia Power has initiated an ACM and is also evaluating possible updates to the ASD. The ACM report was submitted to Georgia EPD May 16, 2025.

5.0 NATURE AND EXTENT

In response to the ASD non-concurrence and the initiation of ACM efforts, Georgia Power performed sampling at MGWC-19 and MGWC-20 in February 2025. The previously identified SSL of lithium at MGWC-7 is vertically delineated by MGWC-19 and horizontally delineated by MGWC-20 to below GWPS and delineation is complete.

6.0 MONITORING PROGRAM STATUS

6.1 Assessment Monitoring Status

In accordance with 40 CFR § 257.94(e), Georgia Power implemented assessment monitoring in January 2018. Based on review of the Appendix III and Appendix IV statistical results completed for the groundwater monitoring and corrective action program from January through June 2025, the Site will continue in assessment monitoring. Georgia Power will continue routine groundwater monitoring and reporting at the Site.

6.2 Assessment of Corrective Measures

On December 19, 2024, Georgia Power placed a Notice of ACM in the Operating Record and initiated ACM efforts for the documented SSL of lithium at MGWC-7 previously identified in the ASD. Georgia Power completed the evaluation of the ACM alternatives following the timelines and requirements of Rule 391-3-4-.10(6)(d)(4) and 40 CFR § 257.94(e)(3) and § 257.96, and recordkeeping requirements of § 257.107. The remedy selection process was documented in the ACM report submitted to Georgia EPD May 16, 2025, and a copy of the ACM has been placed in the operating record. In accordance with § 257.97(a), remedy selection progress reports will be prepared and submitted concurrent with semiannual groundwater monitoring reports to document results associated with additional data collection, and present progress toward selection and design of a groundwater remedy beginning in January 2026.

6.3 Annual Potable Well Survey

As requested by Georgia EPD, a well survey within a two-mile radius from the Site was updated on February 26, 2025. The survey incorporated records from federal, state, and county resources cited in the previous survey (Newfields, 2020). The survey conducted by Environmental Data Resources (EDR) is included in Appendix C, Annual Potable Well Survey. The figure within the EDR Geocheck® Report included in Appendix C presents public water supply wells in the two-mile radius. Appendix C also includes a figure with parcels that have wells within 2-miles of the Site (Arcadis, 2025).

7.0 CONCLUSIONS & FUTURE ACTIONS

This *2025 Semiannual Groundwater Monitoring and Corrective Action Report* for Georgia Power's Plant McIntosh AP-1 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.

Statistical evaluations of the groundwater monitoring data for the Site identified SSIs of Appendix III groundwater monitoring parameters and an SSL of lithium at MGWC-7 in February 2025. Following non-concurrence of the ASD received on September 20, 2024, Georgia Power initiated an ACM with an ACM report being submitted on May 16, 2025. Notice of the ACM placement in the Operating Record was provided in a letter dated June 13, 2025. Beginning in January 2026 Georgia Power will provide remedy selection progress reports, submitted concurrent with semiannual groundwater monitoring reports, to document results associated with additional data collection, and present progress toward selection and design of a groundwater remedy.

Based on the findings presented, AP-1 will remain in assessment monitoring. The next semiannual assessment monitoring event is currently scheduled for August 2025.

8.0 REFERENCES

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TABLES

Table 1
Monitoring Well Network Summary
Georgia Power Company
Plant McIntosh Ash Pond 1
Effingham County, GA

Well ID	Compliance Purpose	Location	Northing	Easting	Ground Surface Elevation (feet)	Top of Casing Elevation (feet)	Top of Screen Elevation (feet)	Bottom of Screen Elevation (feet)	Total Well Depth (feet below top of casing)	Groundwater Zone Screened	Installation Date
MGWC-1	Detection	Downgradient	856813.08	964287.47	62.20	65.23	19.45	9.45	56.08	SW-SC, SP-SM, SP, ML	11/10/2015
MGWC-2	Detection	Downgradient	856400.69	963958.38	45.32	48.54	21.48	11.48	37.36	SP, SP-SM	11/11/2015
MGWC-3	Detection	Downgradient	856033.79	963658.28	50.09	52.65	24.21	14.21	38.74	SP-SM	11/11/2015
MGWA-5	Detection	Upgradient	855860.82	962763.17	61.42	64.36	11.57	1.57	63.09	ML, SP-SM, SP, ML	11/12/2015
MGWA-6	Detection	Upgradient	856527.73	963130.08	58.24	61.08	29.45	19.45	41.93	SP-SM	11/12/2015
MGWA-6A	Detection	Upgradient	856520.82	963113.65	56.89	59.76	30.36	20.36	39.67	SP, SW-SC	01/16/2019
MGWC-7	Detection	Downgradient	857417.68	964007.53	51.28	54.40	22.41	12.41	42.29	SP-SM	11/13/2015
MGWC-8	Detection	Downgradient	857177.10	964141.67	59.69	62.61	20.35	10.35	52.56	CH, SW-SC, SW-SM, SP-SM, ML	11/10/2015
MGWA-10	Detection	Upgradient	855934.25	961406.49	62.05	65.07	22.28	12.28	53.09	SP-SC, SW-SC, SP-SM	11/17/2015
MGWA-11	Detection	Upgradient	855985.31	962070.22	62.04	64.91	19.30	9.30	55.81	SM, ML, SW-SM	05/27/2016
MGWC-12	Detection	Downgradient	855545.67	963110.24	61.24	64.10	21.40	11.40	52.90	CL, ML	05/26/2016
MGWC-4	Piezometer	Downgradient	855555.05	963139.37	61.05	64.33	7.28	-2.72	67.35	ML, SP	11/18/2015
MGWA-9	Piezometer	Upgradient	857129.70	963164.58	56.25	59.29	26.54	16.54	43.05	SP-SM	11/17/2015
PZ-13	Piezometer	Downgradient	856123.86	964192.52	38.02	40.91	24.55	14.55	26.76	SM	06/03/2016
PZ-14	Piezometer	Downgradient	855727.20	963895.98	43.99	47.11	16.01	6.01	41.50	SP	06/04/2016
PZ-15	Piezometer	Downgradient	856156.03	964192.45	39.07	42.37	23.80	13.80	28.87	SM, SC	06/26/2018
PZ-16	Piezometer	Downgradient	857077.14	964957.28	51.29	54.71	22.62	12.62	42.39	SC, SW-SM	06/26/2018
PZ-17	Piezometer	Downgradient	857655.05	964525.72	54.07	57.51	22.69	12.69	45.12	SM	06/27/2018
PZ-18	Piezometer	Upgradient	857542.34	963505.91	50.26	53.48	22.08	12.08	41.70	SC, SM	06/27/2018
MGWC-19	Assessment	Downgradient	857406.16	963972.44	50.74	53.98	-8.42	-18.42	72.70	SM-ML	10/04/2018
MGWC-20	Assessment	Downgradient	857596.86	964281.59	48.77	51.56	7.09	-2.91	54.77	SP-SM, SP	10/03/2018
MGWC-21	Piezometer	Downgradient	857159.04	964155.30	59.89	62.65	-9.73	-19.73	82.68	SM-ML	11/28/2018
MGWC-22	Piezometer	Downgradient	856381.60	963948.23	45.09	47.53	-9.73	-19.73	67.56	SM-ML	11/29/2018
MGWC-23	Piezometer	Downgradient	856940.45	964617.96	54.84	57.47	24.87	14.87	42.90	SC, SM	11/30/2018
MGWA-24	Piezometer	Upgradient	856600.28	962885.22	57.55	60.53	24.73	14.73	47.00	SM	01/17/2019

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

Table 2
Groundwater Event Summary
Georgia Power Company
Plant McIntosh Ash Pond 1
Effingham County, GA

Well ID	Hydraulic Location	Well Designation	February 3-5, 2025
			Semiannual Assessment Event
Georgia Power Company - Plant McIntosh - Ash Pond 1			
MGWC-1	Downgradient	Detection	X
MGWC-2	Downgradient	Detection	X
MGWC-3	Downgradient	Detection	X
MGWA-5	Upgradient	Detection	X
MGWA-6	Upgradient	Detection	X
MGWA-6A	Upgradient	Detection	X
MGWC-7	Downgradient	Detection	X
MGWC-8	Downgradient	Detection	X
MGWA-10	Upgradient	Detection	X
MGWA-11	Upgradient	Detection	X
MGWC-12	Downgradient	Detection	X
MGWC-19	Downgradient	Assessment	X
MGWC-20	Downgradient	Assessment	X

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

Table 3
Summary of Groundwater Elevations
Georgia Power Company
Plant McIntosh Ash Pond 1
Effingham County, GA

		February 2025	
Well ID	Top of Casing Elevation (feet)	Depth to Water (feet)	Groundwater Elevation (feet)
MGWC-1	65.23	39.45	25.78
MGWC-2	48.54	21.15	27.39
MGWC-3	52.65	20.24	32.41
MGWC-4	64.33	27.12	37.21
MGWA-5	64.36	24.00	40.36
MGWA-6	61.08	23.58	37.50
MGWA-6A	59.76	22.21	37.55
MGWC-7	54.40	24.03	30.37
MGWC-8	62.61	34.65	27.96
MGWA-9	59.29	22.75	36.54
MGWA-10	65.07	17.27	47.80
MGWA-11	64.91	21.51	43.40
MGWC-12	64.10	26.80	37.30
PZ-13	40.91	17.18	23.73
PZ-14	47.11	18.01	29.10
PZ-15	42.37	18.67	23.70
PZ-16	54.71	33.23	21.48
PZ-17	57.51	33.57	23.94
PZ-18	53.48	20.46	33.02
MGWC-19	53.98	24.49	29.49
MGWC-20	51.56	24.72	26.84
MGWC-21	62.65	34.63	28.02
MGWC-22	47.53	19.22	28.31
MGWC-23	57.47	34.33	23.14
MGWA-24	60.53	21.60	38.93

Notes:
Elevations referenced to the North American Vertical Datum 1988.
Groundwater elevations measured February 3, 2025.

Table 4
Horizontal Groundwater Flow Velocity Calculations - February 2025
Georgia Power Company
Plant McIntosh Ash Pond 1
Effingham County, GA

Well Pair	Groundwater Elevations in Well Pairs (feet)		Change in Elevation (feet)	Distance Between Well 1 and Well 2 (feet)	Hydraulic Gradient (i)	Average Hydraulic Conductivity (K) (feet per day)	Estimated Effective Porosity (ne)	Calculated Groundwater Flow Velocity (feet per day)	Calculated Groundwater Flow Velocity (feet per year)
MGWA-10 to PZ-15	47.80	23.70	24.10	2795	0.0086	0.96	0.20	0.041	15
MGWA-6 to PZ-16	37.50	21.48	16.02	1908	0.0084	0.96	0.20	0.040	15
MGWA-9 to PZ-17	36.54	23.94	12.60	1459	0.0086	0.96	0.20	0.041	15
Average					**0.0085**	**0.96**	**0.20**	**0.041**	**15**

Notes:
In-situ hydraulic conductivity (slug) tests at the Site ranged from 0.140 to 2.84 feet per day with an average of 0.962 feet per day (Hydrogeologic Assessment Report, GEI, 2019).
Effective porosity of 20% was selected for Silty Sands from Interim Final RCRA Investigation (EPA, 1989).
See Figure 4 for illustrated flow paths.
Groundwater flow velocity equation: V = (K* i)/ne, where V is groundwater velocity, K is hydraulic conductivity, i is hydraulic gradient, and ne is effective porosity.

Table 5
Groundwater Analytical Data Summary - February 2025
Georgia Power Company
Plant McIntosh Ash Pond 1
Effingham County, GA

	Sample Location	MGWC-1	MGWC-2	MGWC-3	MGWA-5	MGWA-6	MGWA-6A	MGWC-7	MGWC-8	MGWA-10
	Sample Date	02/04/2025	02/05/2025	02/04/2025	02/03/2025	02/03/2025	02/04/2025	02/04/2025	02/04/2025	02/04/2025
ANALYTE	UNITS									
Appendix III										
Boron	mg/L	1.6	1.7	0.45	0.081	0.028 J	0.030 J	2.4	5.9	< 0.022
Calcium	mg/L	120	100	110	29	110	110	61	130	3.2
Chloride	mg/L	20	12	19	5.4	3.4	3.5	10	11	8.0
Fluoride	mg/L	< 0.20	< 0.40	< 0.20	< 0.040	< 0.040	< 0.040	< 0.40	< 0.40	< 0.040
pH, Field	SU	7.20	7.66	6.90	7.67	7.17	7.42	6.71	7.67	5.40
Sulfate	mg/L	140	150	73	3.4	4.6	4.0	230	380	< 0.40
Total Dissolved Solids	mg/L	400	420	330	150	260	250	330	590	54
Appendix IV										
Antimony	mg/L	< 0.00034	< 0.00034	< 0.00034	< 0.00034	< 0.00034	< 0.00034	< 0.00034	< 0.00034	< 0.00034
Arsenic	mg/L	0.0014	< 0.00086	0.0021	< 0.00086	0.011	0.011	0.0010	0.0014	0.0011
Barium	mg/L	0.12	0.057	0.15	0.039	0.030	0.034	0.019	0.065	0.019
Beryllium	mg/L	< 0.00020	< 0.00020	< 0.00020	< 0.00020	< 0.00020	< 0.00020	< 0.00020	< 0.00020	< 0.00020
Cadmium	mg/L	< 0.000078	0.00021 J	< 0.000078	< 0.000078	< 0.000078	< 0.000078	< 0.000078	0.0076	< 0.000078
Chromium	mg/L	0.0015 J	0.0027	< 0.0012	< 0.0012	< 0.0012	< 0.0012	< 0.0012	< 0.0012	0.0051
Cobalt	mg/L	< 0.00022	0.00085 J	0.00043 J	< 0.00022	< 0.00022	0.00075 J	0.0029	0.00042 J	< 0.00022
Combined Radium 226 + 228	pCi/L	2.50	0.328 U	1.63	0.0354 U	0.957	1.36	1.46	1.46	0.905
Fluoride	mg/L	< 0.20	< 0.40	< 0.20	< 0.040	< 0.040	< 0.040	< 0.40	< 0.40	< 0.040
Lead	mg/L	< 0.00021	< 0.00021	0.00034 J	< 0.00021	< 0.00021	< 0.00021	< 0.00021	< 0.00021	< 0.00021
Lithium	mg/L	0.016	0.0087	0.017	0.014	0.0057	0.0034 J	0.16	0.012	0.013
Mercury	mg/L	< 0.000080	< 0.000080	< 0.000080	< 0.000080	< 0.000080	< 0.000080	< 0.000080	0.00084	< 0.000080
Molybdenum	mg/L	0.0011 J	< 0.00086	< 0.00086	< 0.00086	< 0.00086	< 0.00086	< 0.00086	< 0.00086	< 0.00086
Selenium	mg/L	< 0.00099	< 0.00099	< 0.00099	< 0.00099	< 0.00099	< 0.00099	< 0.00099	< 0.00099	< 0.00099
Thallium	mg/L	< 0.00026	< 0.00026	< 0.00026	< 0.00026	< 0.00026	< 0.00026	< 0.00026	< 0.00026	< 0.00026
Additional Parameters										
Total Alkalinity as CaCO3	mg/L	190	190	200	110	250	250	37	110	13
Bicarbonate Alkalinity as CaCO3	mg/L	190	190	200	110	250	250	37	110	13
Carbonate Alkalinity as CaCO3	mg/L	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0
Magnesium	mg/L	6.5	16	5.7	12	2.7	2.7	5.4	24	1.0
Potassium	mg/L	2.2	2.0	1.5	1.1	0.63	0.62	4.1	2.2	1.1
Sodium	mg/L	22	29	15	7.4	4.3	4.2	44	28	6.0

Notes:
mg/L - milligrams per liter
pCi/L - picocuries per liter
SU - Standard Units
< indicates the substance was not detected above the method detection limit (MDL). The value displayed is the MDL.
J - The result is an estimated concentration. "J" qualifiers are applied by the laboratory when the concentration reported is above the MDL, but below the laboratory reporting limit.
Radium data are a combination of radium isotopes 226 and 228. When results are reported below the Minimum Detectable Concentration (MDC), data is displayed with an accompanying U.
The MDC varies depending upon the sample amount and elapsed time of the measurement.

Table 5
Groundwater Analytical Data Summary - February 2025
Georgia Power Company
Plant McIntosh Ash Pond 1
Effingham County, GA

	Sample Location	MGWA-11	MGWC-12	MGWC-19	MGWC-20
	Sample Date	02/04/2025	02/04/2025	02/05/2025	02/04/2025
ANALYTE	UNITS				
Appendix III					
Boron	mg/L	0.035 J	0.030 J	1.4	1.6
Calcium	mg/L	44	36	110	49
Chloride	mg/L	3.8	5.7	13	14
Fluoride	mg/L	< 0.040	0.043 J	< 0.40	< 0.20
pH, Field	SU	7.61	6.75	7.75	6.42
Sulfate	mg/L	< 0.40	11	280	160
Total Dissolved Solids	mg/L	220	200	500	310
Appendix IV					
Antimony	mg/L	< 0.00034	< 0.00034	< 0.00034	< 0.00034
Arsenic	mg/L	0.0033	0.0011	0.0014	0.0022
Barium	mg/L	0.15	0.061	0.025	0.043
Beryllium	mg/L	< 0.00020	< 0.00020	< 0.00020	< 0.00020
Cadmium	mg/L	< 0.000078	< 0.000078	< 0.000078	0.0049
Chromium	mg/L	0.0014 J	< 0.0012	< 0.0012	< 0.0012
Cobalt	mg/L	< 0.00022	< 0.00022	< 0.00022	0.00056 J
Combined Radium 226 + 228	pCi/L	0.732	-0.0104 U	0.859	0.324 U
Fluoride	mg/L	< 0.040	0.043 J	< 0.40	< 0.20
Lead	mg/L	< 0.00021	< 0.00021	< 0.00021	< 0.00021
Lithium	mg/L	0.033	0.031	0.0045 J	0.010
Mercury	mg/L	< 0.000080	< 0.000080	< 0.000080	< 0.000080
Molybdenum	mg/L	0.00086 J	< 0.00086	0.00095 J	< 0.00086
Selenium	mg/L	< 0.00099	< 0.00099	< 0.00099	< 0.00099
Thallium	mg/L	< 0.00026	< 0.00026	< 0.00026	< 0.00026
Additional Parameters					
Total Alkalinity as CaCO3	mg/L	160	140	92	57
Bicarbonate Alkalinity as CaCO3	mg/L	160	140	92	57
Carbonate Alkalinity as CaCO3	mg/L	< 5.0	< 5.0	< 5.0	< 5.0
Magnesium	mg/L	14	14	20	15
Potassium	mg/L	2.4	2.3	2.4	3.2
Sodium	mg/L	12	13	12	31

Notes:
mg/L - milligrams per liter
pCi/L - picocuries per liter
SU - Standard Units
< indicates the substance was not detected above the method detection limit (MDL). The value displayed is the MDL.
J - The result is an estimated concentration. "J" qualifiers are applied by the laboratory when the concentration reported is above the MDL, but below the laboratory reporting limit.
Radium data are a combination of radium isotopes 226 and 228. When results are reported below the Minimum Detectable Concentration (MDC), data is displayed with an accompanying U.
The MDC varies depending upon the sample amount and elapsed time of the measurement.

Table 6
Statistical Method Summary
Georgia Power Company
Plant McIntosh Ash Pond 1
Effingham County, GA

Plant McIntosh Ash Pond 1 Statistical Method Summary		
Monitoring Well Network	Upgradient Detection Wells	MGWA-5, MGWA-6, MGWA-6A, MGWA-10, and MGWA-11
	Downgradient Detection Wells	MGWC-1, MGWC-2, MGWC-3, MGWC-7, MGWC-8, and MGWC-12
	Assessment Wells	MGWC-19, MGWC-20
CCR Monitoring Parameters	Appendix III (Detection Monitoring)	Boron, Calcium, Chloride, Fluoride, pH, Sulfate, and Total Dissolved Solids
	Appendix IV (Assessment Monitoring)	Antimony, Arsenic, Barium, Beryllium, Cadmium, Chromium, Cobalt, Combined Radium 226 + 228, Fluoride, Lead, Lithium, Mercury, Molybdenum, Selenium, and Thallium
Statistical Methodology	Data Screening Proposed Background	Evaluate outliers, trends, and seasonality when sufficient data are available
	Statistical Limits	Interwell statistical limits

Table 7
Summary of Background Levels and GWPS
Georgia Power Company
Plant McIntosh Ash Pond 1
Effingham County, GA

Analyte	Units	EPA MCL	Federal CCR Rules Specified GWPS	Background Level February 2025	GWPS February 2025
Antimony	mg/L	0.006	N/A	0.002	0.006
Arsenic	mg/L	0.01	N/A	0.014	0.014
Barium	mg/L	2	N/A	0.15	2
Beryllium	mg/L	0.004	N/A	0.0025	0.004
Cadmium	mg/L	0.005	N/A	0.0025	0.005
Chromium	mg/L	0.1	N/A	0.0066	0.1
Cobalt	mg/L	N/A	0.006	0.0025	0.006
Combined Radium 226 + 228	pCi/L	5	N/A	1.25	5
Fluoride	mg/L	4	N/A	0.19	4
Lead	mg/L	N/A	0.015	0.001	0.015
Lithium	mg/L	N/A	0.04	0.037	0.04
Mercury	mg/L	0.002	N/A	0.0002	0.002
Molybdenum	mg/L	N/A	0.1	0.015	0.1
Selenium	mg/L	0.05	N/A	0.005	0.05
Thallium	mg/L	0.002	N/A	0.001	0.002

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

FIGURES

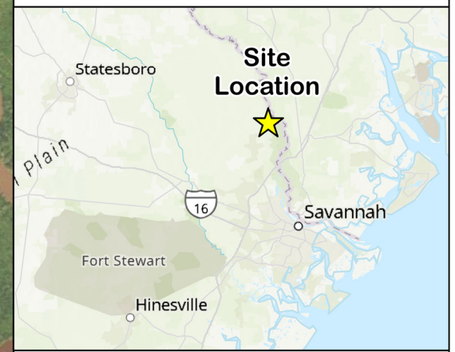


Georgia Power

GEORGIA POWER COMPANY
PLANT McINTOSH ASH POND 1

LEGEND

- APPROXIMATE PROPERTY BOUNDARY
- APPROXIMATE AP-1 BOUNDARY



NOTES

1. AERIAL DATED JANUARY 22, 2024, PROVIDED BY SAM, LLC. ADDITIONAL PHOTOGRAPHY SOURCED FROM NATIONAL AGRICULTURE IMAGERY PROGRAM (NAIP) DATED FROM 2019 THROUGH 2021.

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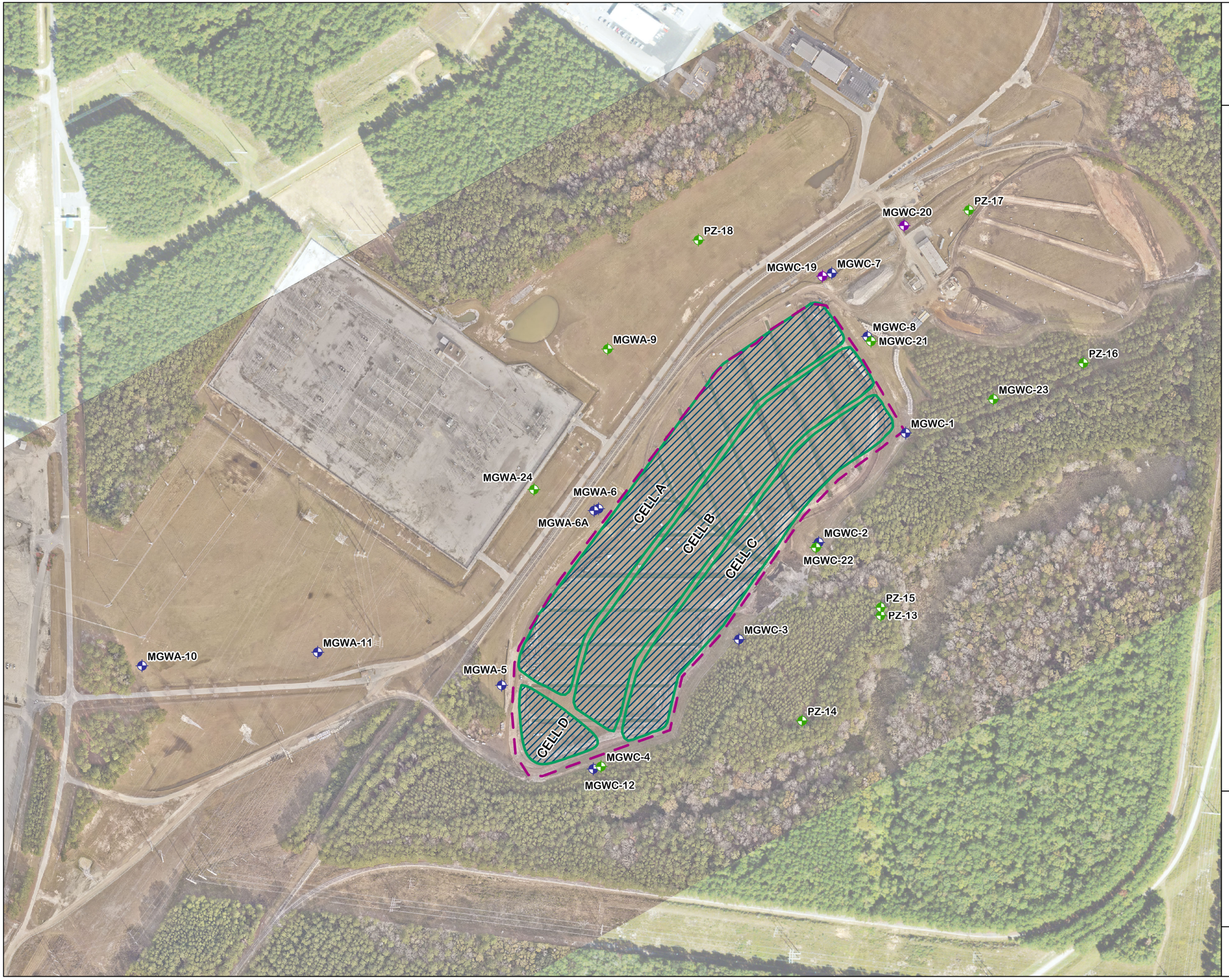
SCALE (IN FEET)

ATLANTIC COAST CONSULTING, INC.

2025 SEMIANNUAL GROUNDWATER MONITORING AND CORRECTIVE ACTION REPORT

SITE LOCATION MAP

FIGURE 1



Georgia Power

GEORGIA POWER COMPANY
PLANT McINTOSH ASH POND 1

LEGEND

- APPROXIMATE AP-1 BOUNDARY
- AREA WHERE ASH REMOVAL WAS CERTIFIED COMPLETE BY GA EPD (OCTOBER 6, 2021)
- DETECTION WELL
- ASSESSMENT WELL
- PIEZOMETER

NOTES

1. AERIAL DATED JANUARY 22, 2024, PROVIDED BY SAM, LLC. ADDITIONAL PHOTOGRAPHY SOURCED FROM NATIONAL AGRICULTURE IMAGERY PROGRAM (NAIP) DATED OCTOBER 17, 2023.
2. CELL BOUNDARY LAYERS PROVIDED BY GEI CONSULTANTS.

N

350 175 0 350

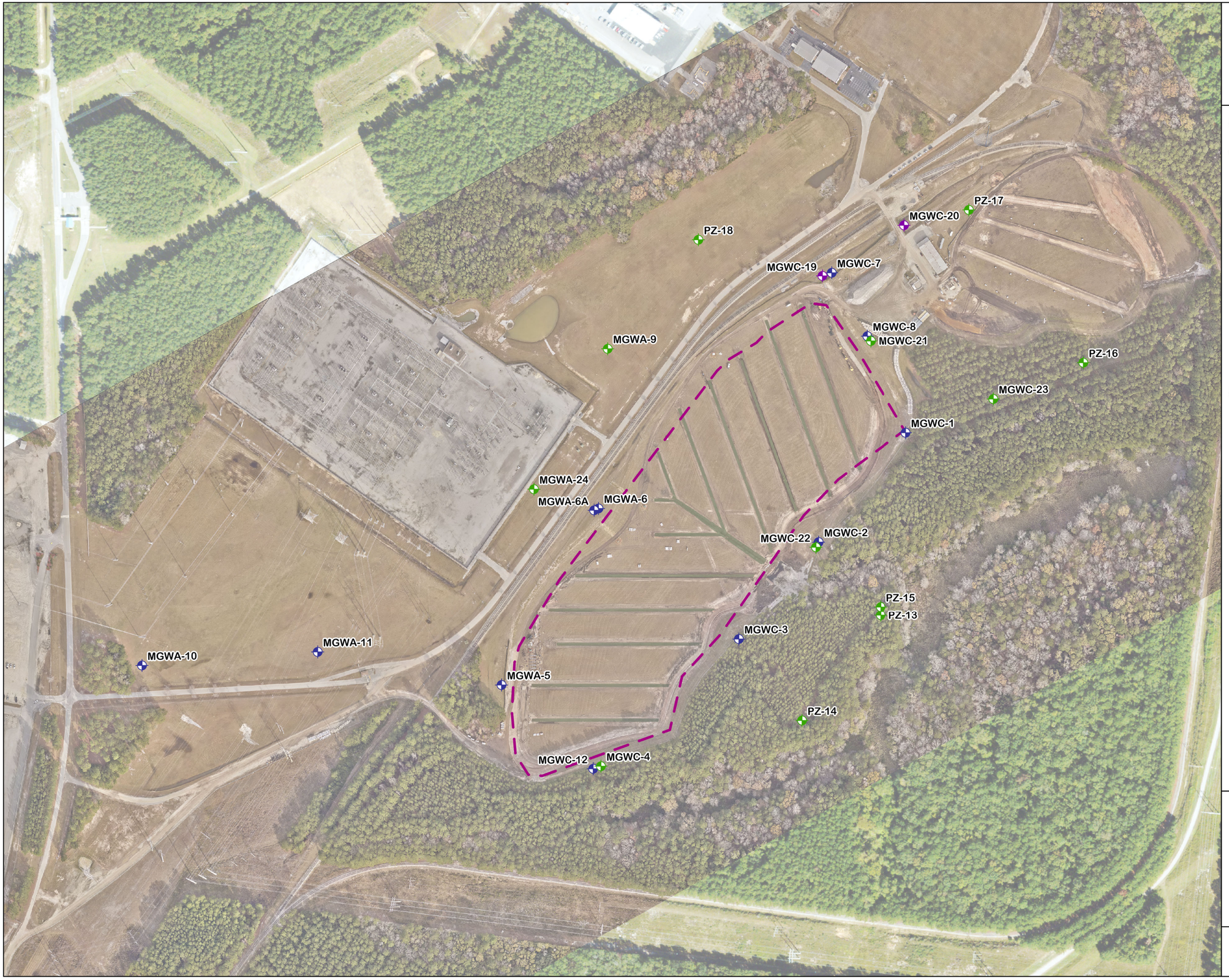
SCALE (IN FEET)

Atlantic Coast Consulting, Inc.

2025 SEMIANNUAL GROUNDWATER MONITORING AND CORRECTIVE ACTION REPORT

CCR REMOVAL MAP

FIGURE 2



Georgia Power

GEORGIA POWER COMPANY
PLANT McINTOSH ASH POND 1

LEGEND

- APPROXIMATE AP-1 BOUNDARY
- DETECTION WELL
- ASSESSMENT WELL
- PIEZOMETER

NOTES

1. AERIAL DATED JANUARY 22, 2024, PROVIDED BY SAM, LLC. ADDITIONAL PHOTOGRAPHY SOURCED FROM NATIONAL AGRICULTURE IMAGERY PROGRAM (NAIP) DATED OCTOBER 17, 2023.

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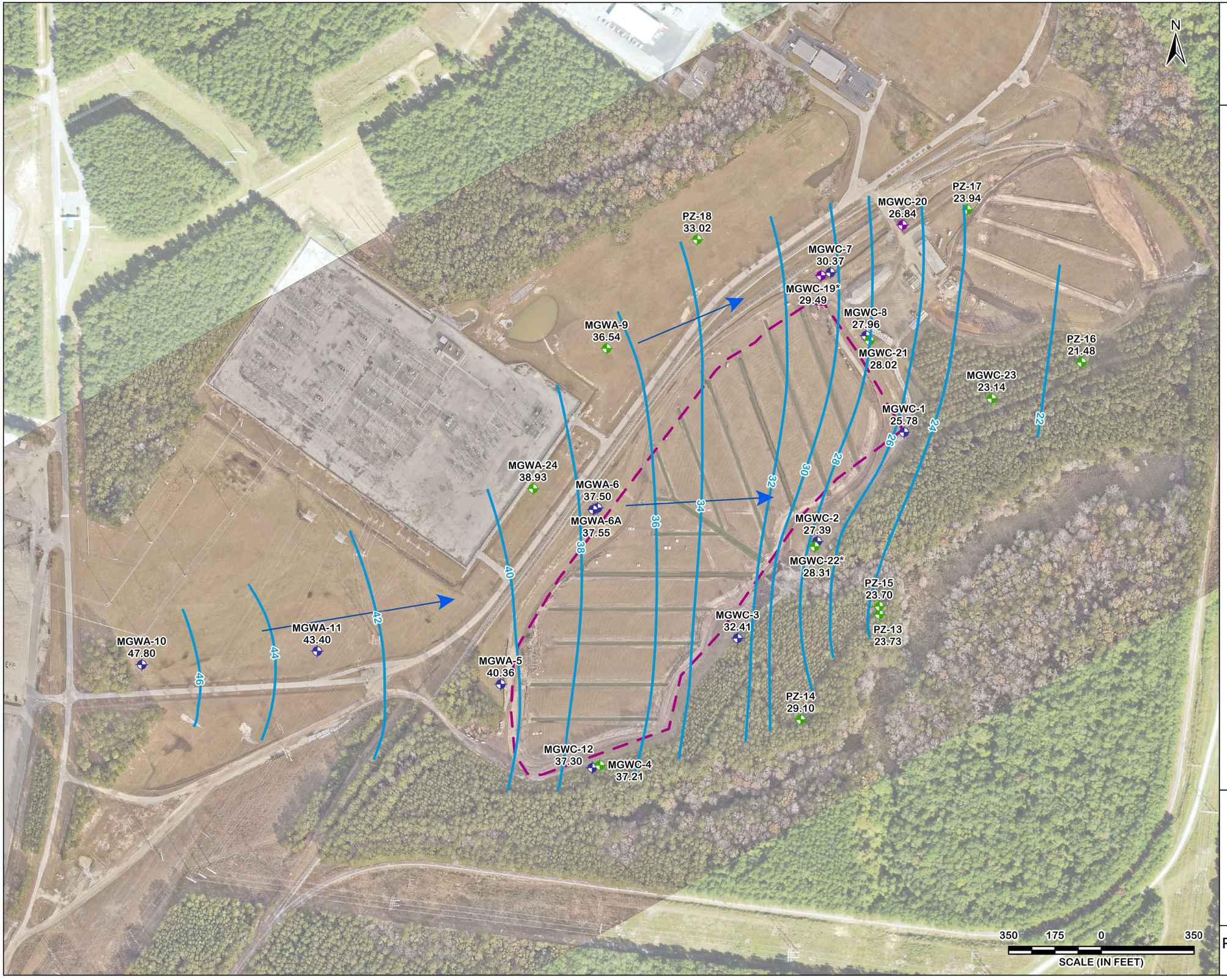
SCALE (IN FEET)

Atlantic Coast Consulting, Inc.

2025 SEMIANNUAL GROUNDWATER MONITORING AND CORRECTIVE ACTION REPORT

WELL LOCATION MAP

FIGURE 3



Georgia Power

GEORGIA POWER COMPANY
PLANT McINTOSH ASH POND 1

LEGEND

- APPROXIMATE AP-1 BOUNDARY
- GROUNDWATER ELEVATION CONTOUR
- GROUNDWATER FLOW DIRECTION
- DETECTION WELL
- ASSESSMENT WELL
- PIEZOMETER

NOTES

1. AERIAL DATED JANUARY 22, 2024, PROVIDED BY SAM, LLC. ADDITIONAL PHOTOGRAPHY SOURCED FROM NATIONAL AGRICULTURE IMAGERY PROGRAM (NAIP) DATED OCTOBER 17, 2023.
2. WATER LEVEL ELEVATION MEASURED FEBRUARY 3, 2025.
3. * = ELEVATIONS FOR MGWC-19 AND MGWC-22 ARE NOT USED TO CALCULATE POTENTIOMETRIC CONTOURS.

CHARLES BRISENDINE ADAMS
GEORGIA REGISTERED PROFESSIONAL GEOLOGIST
No. 1632

Atlantic Coast Consulting, Inc.

2025 SEMIANNUAL GROUNDWATER MONITORING AND CORRECTIVE ACTION REPORT

POTENTIOMETRIC CONTOUR MAP
FEBRUARY 2025

FIGURE 4

APPENDICES

APPENDIX A

Laboratory Analytical and Field Sampling Reports

APPENDIX A

Laboratory Analytical and Field Sampling Reports
February 2025 Monitoring Event

eurofins | Environment Testing

ANALYTICAL REPORT

PREPARED FOR

Attn: Kevin Stephenson
Southern Company
241 Ralph McGill Blvd SE
B10185
Atlanta, Georgia 30308

Generated 2/18/2025 6:50:03 PM

JOB DESCRIPTION

Plant McIntosh Ash Pond 1

JOB NUMBER

680-261520-1

Eurofins Savannah
5102 LaRoche Avenue
Savannah GA 31404

See page two for job notes and contact information.

my EOL

Job Notes

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Authorization



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2/18/2025 6:50:03 PM

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

Definitions/Glossary

Client: Southern Company
Project/Site: Plant McIntosh Ash Pond 1

Job ID: 680-261520-1

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.

General Chemistry

Qualifier	Qualifier Description
F3	Duplicate RPD exceeds the control limit

Glossary

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

Sample Summary

Client: Southern Company
Project/Site: Plant McIntosh Ash Pond 1

Job ID: 680-261520-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
680-261520-1	MCI-MGWA-5	Water	02/03/25 16:32	02/05/25 09:41
680-261520-2	MCI-MGWA-6	Water	02/03/25 16:26	02/05/25 09:41
680-261520-3	MCI-MGWA-6A	Water	02/04/25 09:50	02/05/25 09:41
680-261520-4	MCI-MGWA-10	Water	02/04/25 09:38	02/05/25 09:41
680-261520-5	MCI-MGWA-11	Water	02/04/25 10:49	02/05/25 09:41
680-261520-6	MCI-MGWC-3	Water	02/04/25 11:36	02/05/25 09:41
680-261520-7	MCI-MGWC-1	Water	02/04/25 12:22	02/05/25 09:41
680-261520-8	MCI-MGWC-8	Water	02/04/25 14:24	02/05/25 09:41
680-261520-9	MCI-MGWC-12	Water	02/04/25 14:30	02/05/25 09:41
680-261520-10	MCI-AP1-FD-01	Water	02/04/25 00:00	02/05/25 09:41
680-261520-11	MCI-AP1-EB-03	Water	02/04/25 12:55	02/05/25 09:41
680-261520-12	MCI-AP1-FB-01	Water	02/04/25 14:10	02/05/25 09:41
680-261520-13	MCI-MGWC-7	Water	02/04/25 15:32	02/05/25 09:41
680-261520-14	MCI-MGWC-20	Water	02/04/25 16:15	02/05/25 09:41
680-261520-15	MCI-AP1-EB-04	Water	02/04/25 15:50	02/05/25 09:41
680-261520-16	MCI-AP1-FB-02	Water	02/04/25 16:15	02/05/25 09:41

Job ID: 680-261520-1 — Eurofins Savannah

Job Narrative
680-261520-1

Analytical test results meet all requirements of the associated regulatory program listed on the Accreditation/Certification Summary Page unless otherwise noted under the individual analysis. Data qualifiers and/or narrative comments are included to explain any exceptions, if applicable.

- Matrix QC may not be reported if insufficient sample is provided or site-specific QC samples were not submitted. In these situations, to demonstrate precision and accuracy at a batch level, a LCS/LCSD may be performed, unless otherwise specified in the method.
- Surrogate and/or isotope dilution analyte recoveries (if applicable) which are outside of the QC window are confirmed unless attributed to a dilution or otherwise noted in the narrative.

Receipt
The samples were received on 2/5/2025 9:41 AM. Unless otherwise noted below, the samples arrived in good condition, and, where required, properly preserved and on ice. The temperatures of the 5 coolers at receipt time were 1.8°C, 2.1°C, 2.4°C, 3.2°C and 4.4°C.

HPLC/IC
Method 300_ORGFM_28D: The matrix spike / matrix spike duplicate (MS/MSD) recoveries for analytical batch 680-874884 were outside control limits for one or more analytes. See QC Sample Results for detail. Sample matrix interference and/or non-homogeneity are suspected because the associated laboratory control sample (LCS) recovery is within acceptance limits.

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

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

General Chemistry
Method 2540C: A lesser volume of sample was used for the following samples due to the nature of the sample matrix resulting in elevated reporting limits: MCI-MGWA-6 (680-261520-2), MCI-MGWA-6A (680-261520-3), MCI-MGWC-3 (680-261520-6), MCI-MGWC-1 (680-261520-7), MCI-MGWC-8 (680-261520-8), MCI-AP1-FD-01 (680-261520-10), MGWC-7 (680-261520-13) and MGWC-20 (680-261520-14).

Method 2540C: The sample duplicate precision for the following sample associated with analytical batch 680-875047 was outside control limits: (680-261520-C-14 DU). The associated Laboratory Control Sample / Laboratory Control Sample Duplicate (LCS/LCSD) precision met acceptance criteria.

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

Client: Southern Company
Project/Site: Plant McIntosh Ash Pond 1

Job ID: 680-261520-1

Client Sample ID: MCI-MGWA-5

Lab Sample ID: 680-261520-1

Date Collected: 02/03/25 16:32

Matrix: Water

Date Received: 02/05/25 09:41

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**5.4**		1.0	0.20	mg/L			02/07/25 17:29	1
Fluoride	<0.040		0.10	0.040	mg/L			02/07/25 17:29	1
Sulfate	**3.4**		1.0	0.40	mg/L			02/07/25 17:29	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.00034		0.0020	0.00034	mg/L		02/06/25 06:25	02/14/25 12:37	1
Arsenic	<0.00086		0.0010	0.00086	mg/L		02/06/25 06:25	02/14/25 12:37	1
Barium	**0.039**		0.010	0.00089	mg/L		02/06/25 06:25	02/14/25 12:37	1
Beryllium	<0.00020		0.0025	0.00020	mg/L		02/06/25 06:25	02/14/25 12:37	1
Boron	**0.081**		0.080	0.022	mg/L		02/06/25 06:25	02/14/25 12:37	1
Cadmium	<0.000078		0.0025	0.000078	mg/L		02/06/25 06:25	02/14/25 12:37	1
Calcium	**29**		0.50	0.14	mg/L		02/06/25 06:25	02/14/25 12:37	1
Chromium	<0.0012		0.0020	0.0012	mg/L		02/06/25 06:25	02/14/25 12:37	1
Cobalt	<0.00022		0.0025	0.00022	mg/L		02/06/25 06:25	02/14/25 12:37	1
Lead	<0.00021		0.0010	0.00021	mg/L		02/06/25 06:25	02/14/25 12:37	1
Lithium	**0.014**		0.0050	0.0020	mg/L		02/06/25 06:25	02/14/25 12:37	1
Molybdenum	<0.00086		0.015	0.00086	mg/L		02/06/25 06:25	02/14/25 12:37	1
Selenium	<0.00099		0.0050	0.00099	mg/L		02/06/25 06:25	02/14/25 12:37	1
Thallium	<0.00026		0.0010	0.00026	mg/L		02/06/25 06:25	02/14/25 12:37	1

Method: SW846 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.000080		0.00020	0.000080	mg/L		02/10/25 13:44	02/11/25 12:22	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids (SM 2540C-2011)	**150**		10	10	mg/L			02/06/25 06:37	1

Client Sample ID: MCI-MGWA-6

Lab Sample ID: 680-261520-2

Date Collected: 02/03/25 16:26

Matrix: Water

Date Received: 02/05/25 09:41

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**3.4**		1.0	0.20	mg/L			02/07/25 17:39	1
Fluoride	<0.040		0.10	0.040	mg/L			02/07/25 17:39	1
Sulfate	**4.6**		1.0	0.40	mg/L			02/07/25 17:39	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.00034		0.0020	0.00034	mg/L		02/06/25 06:25	02/14/25 12:05	1
Arsenic	**0.011**		0.0010	0.00086	mg/L		02/06/25 06:25	02/14/25 12:05	1
Barium	**0.030**		0.010	0.00089	mg/L		02/06/25 06:25	02/14/25 12:05	1
Beryllium	<0.00020		0.0025	0.00020	mg/L		02/06/25 06:25	02/14/25 12:05	1
Boron	**0.028**	**J**	0.080	0.022	mg/L		02/06/25 06:25	02/14/25 12:05	1
Cadmium	<0.000078		0.0025	0.000078	mg/L		02/06/25 06:25	02/14/25 12:05	1
Calcium	**110**		0.50	0.14	mg/L		02/06/25 06:25	02/14/25 12:05	1
Chromium	<0.0012		0.0020	0.0012	mg/L		02/06/25 06:25	02/14/25 12:05	1
Cobalt	<0.00022		0.0025	0.00022	mg/L		02/06/25 06:25	02/14/25 12:05	1

Client Sample ID: MCI-MGWA-6

Lab Sample ID: 680-261520-2

Date Collected: 02/03/25 16:26

Matrix: Water

Date Received: 02/05/25 09:41

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	<0.00021		0.0010	0.00021	mg/L		02/06/25 06:25	02/14/25 12:05	1
Lithium	**0.0057**		0.0050	0.0020	mg/L		02/06/25 06:25	02/14/25 12:05	1
Molybdenum	<0.00086		0.015	0.00086	mg/L		02/06/25 06:25	02/14/25 12:05	1
Selenium	<0.00099		0.0050	0.00099	mg/L		02/06/25 06:25	02/14/25 12:05	1
Thallium	<0.00026		0.0010	0.00026	mg/L		02/06/25 06:25	02/14/25 12:05	1

Method: SW846 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.000080		0.00020	0.000080	mg/L		02/10/25 13:44	02/11/25 12:30	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids (SM 2540C-2011)	**260**		40	40	mg/L			02/06/25 06:37	1

Client Sample ID: MCI-MGWA-6A

Lab Sample ID: 680-261520-3

Date Collected: 02/04/25 09:50

Matrix: Water

Date Received: 02/05/25 09:41

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**3.5**		1.0	0.20	mg/L			02/07/25 17:48	1
Fluoride	<0.040		0.10	0.040	mg/L			02/07/25 17:48	1
Sulfate	**4.0**		1.0	0.40	mg/L			02/07/25 17:48	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.00034		0.0020	0.00034	mg/L		02/06/25 06:25	02/14/25 11:59	1
Arsenic	**0.011**		0.0010	0.00086	mg/L		02/06/25 06:25	02/14/25 11:59	1
Barium	**0.034**		0.010	0.00089	mg/L		02/06/25 06:25	02/14/25 11:59	1
Beryllium	<0.00020		0.0025	0.00020	mg/L		02/06/25 06:25	02/14/25 11:59	1
Boron	**0.030**	**J**	0.080	0.022	mg/L		02/06/25 06:25	02/14/25 11:59	1
Cadmium	<0.000078		0.0025	0.000078	mg/L		02/06/25 06:25	02/14/25 11:59	1
Calcium	**110**		0.50	0.14	mg/L		02/06/25 06:25	02/14/25 11:59	1
Chromium	<0.0012		0.0020	0.0012	mg/L		02/06/25 06:25	02/14/25 11:59	1
Cobalt	**0.00075**	**J**	0.0025	0.00022	mg/L		02/06/25 06:25	02/14/25 11:59	1
Lead	<0.00021		0.0010	0.00021	mg/L		02/06/25 06:25	02/14/25 11:59	1
Lithium	**0.0034**	**J**	0.0050	0.0020	mg/L		02/06/25 06:25	02/14/25 11:59	1
Molybdenum	<0.00086		0.015	0.00086	mg/L		02/06/25 06:25	02/14/25 11:59	1
Selenium	<0.00099		0.0050	0.00099	mg/L		02/06/25 06:25	02/14/25 11:59	1
Thallium	<0.00026		0.0010	0.00026	mg/L		02/06/25 06:25	02/14/25 11:59	1

Method: SW846 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.000080		0.00020	0.000080	mg/L		02/11/25 12:48	02/11/25 17:53	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids (SM 2540C-2011)	**250**		40	40	mg/L			02/06/25 06:37	1

Client: Southern Company
Project/Site: Plant McIntosh Ash Pond 1

Job ID: 680-261520-1

Client Sample ID: MCI-MGWA-10

Lab Sample ID: 680-261520-4

Date Collected: 02/04/25 09:38

Matrix: Water

Date Received: 02/05/25 09:41

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**8.0**		1.0	0.20	mg/L			02/08/25 15:27	1
Fluoride	<0.040		0.10	0.040	mg/L			02/08/25 15:27	1
Sulfate	<0.40		1.0	0.40	mg/L			02/08/25 15:27	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.00034		0.0020	0.00034	mg/L		02/06/25 06:25	02/14/25 12:19	1
Arsenic	**0.0011**		0.0010	0.00086	mg/L		02/06/25 06:25	02/14/25 12:19	1
Barium	**0.019**		0.010	0.00089	mg/L		02/06/25 06:25	02/14/25 12:19	1
Beryllium	<0.00020		0.0025	0.00020	mg/L		02/06/25 06:25	02/14/25 12:19	1
Boron	<0.022		0.080	0.022	mg/L		02/06/25 06:25	02/14/25 12:19	1
Cadmium	<0.000078		0.0025	0.000078	mg/L		02/06/25 06:25	02/14/25 12:19	1
Calcium	**3.2**		0.50	0.14	mg/L		02/06/25 06:25	02/14/25 12:19	1
Chromium	**0.0051**		0.0020	0.0012	mg/L		02/06/25 06:25	02/14/25 12:19	1
Cobalt	<0.00022		0.0025	0.00022	mg/L		02/06/25 06:25	02/14/25 12:19	1
Lead	<0.00021		0.0010	0.00021	mg/L		02/06/25 06:25	02/14/25 12:19	1
Lithium	**0.013**		0.0050	0.0020	mg/L		02/06/25 06:25	02/14/25 12:19	1
Molybdenum	<0.00086		0.015	0.00086	mg/L		02/06/25 06:25	02/14/25 12:19	1
Selenium	<0.00099		0.0050	0.00099	mg/L		02/06/25 06:25	02/14/25 12:19	1
Thallium	<0.00026		0.0010	0.00026	mg/L		02/06/25 06:25	02/14/25 12:19	1

Method: SW846 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.000080		0.00020	0.000080	mg/L		02/11/25 12:48	02/11/25 17:22	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids (SM 2540C-2011)	**54**		10	10	mg/L			02/06/25 06:37	1

Client Sample ID: MCI-MGWA-11

Lab Sample ID: 680-261520-5

Date Collected: 02/04/25 10:49

Matrix: Water

Date Received: 02/05/25 09:41

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**3.8**		1.0	0.20	mg/L			02/07/25 18:08	1
Fluoride	<0.040		0.10	0.040	mg/L			02/07/25 18:08	1
Sulfate	<0.40		1.0	0.40	mg/L			02/07/25 18:08	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.00034		0.0020	0.00034	mg/L		02/06/25 06:25	02/14/25 12:03	1
Arsenic	**0.0033**		0.0010	0.00086	mg/L		02/06/25 06:25	02/14/25 12:03	1
Barium	**0.15**		0.010	0.00089	mg/L		02/06/25 06:25	02/14/25 12:03	1
Beryllium	<0.00020		0.0025	0.00020	mg/L		02/06/25 06:25	02/14/25 12:03	1
Boron	**0.035**	**J**	0.080	0.022	mg/L		02/06/25 06:25	02/14/25 12:03	1
Cadmium	<0.000078		0.0025	0.000078	mg/L		02/06/25 06:25	02/14/25 12:03	1
Calcium	**44**		0.50	0.14	mg/L		02/06/25 06:25	02/14/25 12:03	1
Chromium	**0.0014**	**J**	0.0020	0.0012	mg/L		02/06/25 06:25	02/14/25 12:03	1
Cobalt	<0.00022		0.0025	0.00022	mg/L		02/06/25 06:25	02/14/25 12:03	1

Client Sample ID: MCI-MGWA-11

Lab Sample ID: 680-261520-5

Date Collected: 02/04/25 10:49

Matrix: Water

Date Received: 02/05/25 09:41

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	<0.00021		0.0010	0.00021	mg/L		02/06/25 06:25	02/14/25 12:03	1
Lithium	**0.033**		0.0050	0.0020	mg/L		02/06/25 06:25	02/14/25 12:03	1
Molybdenum	**0.00086**	**J**	0.015	0.00086	mg/L		02/06/25 06:25	02/14/25 12:03	1
Selenium	<0.00099		0.0050	0.00099	mg/L		02/06/25 06:25	02/14/25 12:03	1
Thallium	<0.00026		0.0010	0.00026	mg/L		02/06/25 06:25	02/14/25 12:03	1

Method: SW846 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.000080		0.00020	0.000080	mg/L		02/11/25 12:48	02/11/25 17:48	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids (SM 2540C-2011)	**220**		10	10	mg/L			02/06/25 06:37	1

Client Sample ID: MCI-MGWC-3

Lab Sample ID: 680-261520-6

Date Collected: 02/04/25 11:36

Matrix: Water

Date Received: 02/05/25 09:41

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**19**		5.0	1.0	mg/L			02/07/25 18:18	5
Fluoride	<0.20		0.50	0.20	mg/L			02/07/25 18:18	5
Sulfate	**73**		5.0	2.0	mg/L			02/07/25 18:18	5

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.00034		0.0020	0.00034	mg/L		02/06/25 06:25	02/14/25 12:29	1
Arsenic	**0.0021**		0.0010	0.00086	mg/L		02/06/25 06:25	02/14/25 12:29	1
Barium	**0.15**		0.010	0.00089	mg/L		02/06/25 06:25	02/14/25 12:29	1
Beryllium	<0.00020		0.0025	0.00020	mg/L		02/06/25 06:25	02/14/25 12:29	1
Boron	**0.45**		0.080	0.022	mg/L		02/06/25 06:25	02/14/25 12:29	1
Cadmium	<0.000078		0.0025	0.000078	mg/L		02/06/25 06:25	02/14/25 12:29	1
Calcium	**110**		0.50	0.14	mg/L		02/06/25 06:25	02/14/25 12:29	1
Chromium	<0.0012		0.0020	0.0012	mg/L		02/06/25 06:25	02/14/25 12:29	1
Cobalt	**0.00043**	**J**	0.0025	0.00022	mg/L		02/06/25 06:25	02/14/25 12:29	1
Lead	**0.00034**	**J**	0.0010	0.00021	mg/L		02/06/25 06:25	02/14/25 12:29	1
Lithium	**0.017**		0.0050	0.0020	mg/L		02/06/25 06:25	02/14/25 12:29	1
Molybdenum	<0.00086		0.015	0.00086	mg/L		02/06/25 06:25	02/14/25 12:29	1
Selenium	<0.00099		0.0050	0.00099	mg/L		02/06/25 06:25	02/14/25 12:29	1
Thallium	<0.00026		0.0010	0.00026	mg/L		02/06/25 06:25	02/14/25 12:29	1

Method: SW846 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.000080		0.00020	0.000080	mg/L		02/11/25 12:48	02/11/25 17:18	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids (SM 2540C-2011)	**330**		40	40	mg/L			02/06/25 06:37	1

Client: Southern Company
Project/Site: Plant McIntosh Ash Pond 1

Job ID: 680-261520-1

Client Sample ID: MCI-MGWC-1

Lab Sample ID: 680-261520-7

Date Collected: 02/04/25 12:22

Matrix: Water

Date Received: 02/05/25 09:41

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**20**		5.0	1.0	mg/L			02/07/25 18:27	5
Fluoride	<0.20		0.50	0.20	mg/L			02/07/25 18:27	5
Sulfate	**140**		5.0	2.0	mg/L			02/07/25 18:27	5

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.00034		0.0020	0.00034	mg/L		02/06/25 06:25	02/14/25 12:35	1
Arsenic	**0.0014**		0.0010	0.00086	mg/L		02/06/25 06:25	02/14/25 12:35	1
Barium	**0.12**		0.010	0.00089	mg/L		02/06/25 06:25	02/14/25 12:35	1
Beryllium	<0.00020		0.0025	0.00020	mg/L		02/06/25 06:25	02/14/25 12:35	1
Boron	**1.6**		0.080	0.022	mg/L		02/06/25 06:25	02/14/25 12:35	1
Cadmium	<0.000078		0.0025	0.000078	mg/L		02/06/25 06:25	02/14/25 12:35	1
Calcium	**120**		0.50	0.14	mg/L		02/06/25 06:25	02/14/25 12:35	1
Chromium	**0.0015**	**J**	0.0020	0.0012	mg/L		02/06/25 06:25	02/14/25 12:35	1
Cobalt	<0.00022		0.0025	0.00022	mg/L		02/06/25 06:25	02/14/25 12:35	1
Lead	<0.00021		0.0010	0.00021	mg/L		02/06/25 06:25	02/14/25 12:35	1
Lithium	**0.016**		0.0050	0.0020	mg/L		02/06/25 06:25	02/14/25 12:35	1
Molybdenum	**0.0011**	**J**	0.015	0.00086	mg/L		02/06/25 06:25	02/14/25 12:35	1
Selenium	<0.00099		0.0050	0.00099	mg/L		02/06/25 06:25	02/14/25 12:35	1
Thallium	<0.00026		0.0010	0.00026	mg/L		02/06/25 06:25	02/14/25 12:35	1

Method: SW846 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.000080		0.00020	0.000080	mg/L		02/10/25 13:44	02/11/25 12:20	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids (SM 2540C-2011)	**400**		40	40	mg/L			02/06/25 06:37	1

Client Sample ID: MCI-MGWC-8

Lab Sample ID: 680-261520-8

Date Collected: 02/04/25 14:24

Matrix: Water

Date Received: 02/05/25 09:41

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**11**		10	2.0	mg/L			02/07/25 19:26	10
Fluoride	<0.40		1.0	0.40	mg/L			02/07/25 19:26	10
Sulfate	**380**		10	4.0	mg/L			02/07/25 19:26	10

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.00034		0.0020	0.00034	mg/L		02/06/25 06:25	02/14/25 12:21	1
Arsenic	**0.0014**		0.0010	0.00086	mg/L		02/06/25 06:25	02/14/25 12:21	1
Barium	**0.065**		0.010	0.00089	mg/L		02/06/25 06:25	02/14/25 12:21	1
Beryllium	<0.00020		0.0025	0.00020	mg/L		02/06/25 06:25	02/14/25 12:21	1
Boron	**5.9**		0.080	0.022	mg/L		02/06/25 06:25	02/14/25 12:21	1
Cadmium	**0.0076**		0.0025	0.000078	mg/L		02/06/25 06:25	02/14/25 12:21	1
Calcium	**130**		0.50	0.14	mg/L		02/06/25 06:25	02/14/25 12:21	1
Chromium	<0.0012		0.0020	0.0012	mg/L		02/06/25 06:25	02/14/25 12:21	1
Cobalt	**0.00042**	**J**	0.0025	0.00022	mg/L		02/06/25 06:25	02/14/25 12:21	1

Client Sample ID: MCI-MGWC-8

Lab Sample ID: 680-261520-8

Date Collected: 02/04/25 14:24

Matrix: Water

Date Received: 02/05/25 09:41

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	<0.00021		0.0010	0.00021	mg/L		02/06/25 06:25	02/14/25 12:21	1
Lithium	**0.012**		0.0050	0.0020	mg/L		02/06/25 06:25	02/14/25 12:21	1
Molybdenum	<0.00086		0.015	0.00086	mg/L		02/06/25 06:25	02/14/25 12:21	1
Selenium	<0.00099		0.0050	0.00099	mg/L		02/06/25 06:25	02/14/25 12:21	1
Thallium	<0.00026		0.0010	0.00026	mg/L		02/06/25 06:25	02/14/25 12:21	1

Method: SW846 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	**0.00084**		0.00020	0.000080	mg/L		02/11/25 12:48	02/11/25 17:46	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids (SM 2540C-2011)	**590**		40	40	mg/L			02/06/25 06:37	1

Client Sample ID: MCI-MGWC-12

Lab Sample ID: 680-261520-9

Date Collected: 02/04/25 14:30

Matrix: Water

Date Received: 02/05/25 09:41

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**5.7**	**F1**	1.0	0.20	mg/L			02/07/25 18:57	1
Fluoride	**0.043**	**J F1**	0.10	0.040	mg/L			02/07/25 18:57	1
Sulfate	**11**	**F1**	1.0	0.40	mg/L			02/07/25 18:57	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.00034		0.0020	0.00034	mg/L		02/06/25 06:25	02/14/25 12:17	1
Arsenic	**0.0011**		0.0010	0.00086	mg/L		02/06/25 06:25	02/14/25 12:17	1
Barium	**0.061**		0.010	0.00089	mg/L		02/06/25 06:25	02/14/25 12:17	1
Beryllium	<0.00020		0.0025	0.00020	mg/L		02/06/25 06:25	02/14/25 12:17	1
Boron	**0.030**	**J**	0.080	0.022	mg/L		02/06/25 06:25	02/14/25 12:17	1
Cadmium	<0.000078		0.0025	0.000078	mg/L		02/06/25 06:25	02/14/25 12:17	1
Calcium	**36**		0.50	0.14	mg/L		02/06/25 06:25	02/14/25 12:17	1
Chromium	<0.0012		0.0020	0.0012	mg/L		02/06/25 06:25	02/14/25 12:17	1
Cobalt	<0.00022		0.0025	0.00022	mg/L		02/06/25 06:25	02/14/25 12:17	1
Lead	<0.00021		0.0010	0.00021	mg/L		02/06/25 06:25	02/14/25 12:17	1
Lithium	**0.031**		0.0050	0.0020	mg/L		02/06/25 06:25	02/14/25 12:17	1
Molybdenum	<0.00086		0.015	0.00086	mg/L		02/06/25 06:25	02/14/25 12:17	1
Selenium	<0.00099		0.0050	0.00099	mg/L		02/06/25 06:25	02/14/25 12:17	1
Thallium	<0.00026		0.0010	0.00026	mg/L		02/06/25 06:25	02/14/25 12:17	1

Method: SW846 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.000080		0.00020	0.000080	mg/L		02/11/25 12:48	02/11/25 17:25	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids (SM 2540C-2011)	**200**		10	10	mg/L			02/06/25 06:37	1

Client: Southern Company
Project/Site: Plant McIntosh Ash Pond 1

Job ID: 680-261520-1

Client Sample ID: MCI-AP1-FD-01

Lab Sample ID: 680-261520-10

Date Collected: 02/04/25 00:00

Matrix: Water

Date Received: 02/05/25 09:41

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**11**		5.0	1.0	mg/L			02/07/25 19:36	5
Fluoride	<0.20		0.50	0.20	mg/L			02/07/25 19:36	5
Sulfate	**74**		5.0	2.0	mg/L			02/07/25 19:36	5

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.00034		0.0020	0.00034	mg/L		02/06/25 06:25	02/14/25 12:23	1
Arsenic	**0.0019**		0.0010	0.00086	mg/L		02/06/25 06:25	02/14/25 12:23	1
Barium	**0.15**		0.010	0.00089	mg/L		02/06/25 06:25	02/14/25 12:23	1
Beryllium	<0.00020		0.0025	0.00020	mg/L		02/06/25 06:25	02/14/25 12:23	1
Boron	**0.49**		0.080	0.022	mg/L		02/06/25 06:25	02/14/25 12:23	1
Cadmium	<0.000078		0.0025	0.000078	mg/L		02/06/25 06:25	02/14/25 12:23	1
Calcium	**99**		0.50	0.14	mg/L		02/06/25 06:25	02/14/25 12:23	1
Chromium	<0.0012		0.0020	0.0012	mg/L		02/06/25 06:25	02/14/25 12:23	1
Cobalt	**0.00042**	**J**	0.0025	0.00022	mg/L		02/06/25 06:25	02/14/25 12:23	1
Lead	<0.00021		0.0010	0.00021	mg/L		02/06/25 06:25	02/14/25 12:23	1
Lithium	**0.015**		0.0050	0.0020	mg/L		02/06/25 06:25	02/14/25 12:23	1
Molybdenum	<0.00086		0.015	0.00086	mg/L		02/06/25 06:25	02/14/25 12:23	1
Selenium	<0.00099		0.0050	0.00099	mg/L		02/06/25 06:25	02/14/25 12:23	1
Thallium	<0.00026		0.0010	0.00026	mg/L		02/06/25 06:25	02/14/25 12:23	1

Method: SW846 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.000080		0.00020	0.000080	mg/L		02/11/25 12:48	02/11/25 17:41	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids (SM 2540C-2011)	**330**		40	40	mg/L			02/06/25 06:37	1

Client Sample ID: MCI-AP1-EB-03

Lab Sample ID: 680-261520-11

Date Collected: 02/04/25 12:55

Matrix: Water

Date Received: 02/05/25 09:41

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	<0.20		1.0	0.20	mg/L			02/07/25 19:46	1
Fluoride	<0.040		0.10	0.040	mg/L			02/07/25 19:46	1
Sulfate	<0.40		1.0	0.40	mg/L			02/07/25 19:46	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.00034		0.0020	0.00034	mg/L		02/06/25 06:25	02/06/25 18:14	1
Arsenic	**0.0011**		0.0010	0.00086	mg/L		02/06/25 06:25	02/06/25 18:14	1
Barium	<0.00089		0.010	0.00089	mg/L		02/06/25 06:25	02/06/25 18:14	1
Beryllium	<0.00020		0.0025	0.00020	mg/L		02/06/25 06:25	02/07/25 15:40	1
Boron	<0.022		0.080	0.022	mg/L		02/06/25 06:25	02/07/25 15:40	1
Cadmium	<0.000078		0.0025	0.000078	mg/L		02/06/25 06:25	02/06/25 18:14	1
Calcium	<0.14		0.50	0.14	mg/L		02/06/25 06:25	02/06/25 18:14	1
Chromium	**0.0021**		0.0020	0.0012	mg/L		02/06/25 06:25	02/06/25 18:14	1
Cobalt	<0.00022		0.0025	0.00022	mg/L		02/06/25 06:25	02/06/25 18:14	1

Client Sample ID: MCI-AP1-EB-03

Lab Sample ID: 680-261520-11

Date Collected: 02/04/25 12:55

Matrix: Water

Date Received: 02/05/25 09:41

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	<0.00021		0.0010	0.00021	mg/L		02/06/25 06:25	02/06/25 18:14	1
Lithium	<0.0020		0.0050	0.0020	mg/L		02/06/25 06:25	02/07/25 15:40	1
Molybdenum	<0.00086		0.015	0.00086	mg/L		02/06/25 06:25	02/06/25 18:14	1
Selenium	<0.00099		0.0050	0.00099	mg/L		02/06/25 06:25	02/06/25 18:14	1
Thallium	<0.00026		0.0010	0.00026	mg/L		02/06/25 06:25	02/06/25 18:14	1

Method: SW846 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.000080		0.00020	0.000080	mg/L		02/12/25 12:58	02/12/25 18:58	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids (SM 2540C-2011)	<10		10	10	mg/L			02/06/25 06:37	1

Client Sample ID: MCI-AP1-FB-01

Lab Sample ID: 680-261520-12

Date Collected: 02/04/25 14:10

Matrix: Water

Date Received: 02/05/25 09:41

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	<0.20		1.0	0.20	mg/L			02/07/25 19:55	1
Fluoride	<0.040		0.10	0.040	mg/L			02/07/25 19:55	1
Sulfate	<0.40		1.0	0.40	mg/L			02/07/25 19:55	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.00034		0.0020	0.00034	mg/L		02/06/25 06:25	02/14/25 12:41	1
Arsenic	<0.00086		0.0010	0.00086	mg/L		02/06/25 06:25	02/14/25 12:41	1
Barium	<0.00089		0.010	0.00089	mg/L		02/06/25 06:25	02/14/25 12:41	1
Beryllium	<0.00020		0.0025	0.00020	mg/L		02/06/25 06:25	02/14/25 12:41	1
Boron	**0.023**	**J**	0.080	0.022	mg/L		02/06/25 06:25	02/14/25 12:41	1
Cadmium	<0.000078		0.0025	0.000078	mg/L		02/06/25 06:25	02/14/25 12:41	1
Calcium	<0.14		0.50	0.14	mg/L		02/06/25 06:25	02/14/25 12:41	1
Chromium	<0.0012		0.0020	0.0012	mg/L		02/06/25 06:25	02/14/25 12:41	1
Cobalt	<0.00022		0.0025	0.00022	mg/L		02/06/25 06:25	02/14/25 12:41	1
Lead	<0.00021		0.0010	0.00021	mg/L		02/06/25 06:25	02/14/25 12:41	1
Lithium	**0.0038**	**J**	0.0050	0.0020	mg/L		02/06/25 06:25	02/14/25 12:41	1
Molybdenum	<0.00086		0.015	0.00086	mg/L		02/06/25 06:25	02/14/25 12:41	1
Selenium	<0.00099		0.0050	0.00099	mg/L		02/06/25 06:25	02/14/25 12:41	1
Thallium	<0.00026		0.0010	0.00026	mg/L		02/06/25 06:25	02/14/25 12:41	1

Method: SW846 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.000080		0.00020	0.000080	mg/L		02/11/25 12:48	02/11/25 17:50	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids (SM 2540C-2011)	<10		10	10	mg/L			02/06/25 06:37	1

Client: Southern Company
Project/Site: Plant McIntosh Ash Pond 1

Job ID: 680-261520-1

Client Sample ID: MCI-MGWC-7

Lab Sample ID: 680-261520-13

Date Collected: 02/04/25 15:32
Matrix: Water
Date Received: 02/05/25 09:41

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**10**		10	2.0	mg/L			02/07/25 20:05	10
Fluoride	<0.40		1.0	0.40	mg/L			02/07/25 20:05	10
Sulfate	**230**		10	4.0	mg/L			02/07/25 20:05	10

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.00034		0.0020	0.00034	mg/L		02/06/25 06:25	02/14/25 12:25	1
Arsenic	**0.0010**		0.0010	0.00086	mg/L		02/06/25 06:25	02/14/25 12:25	1
Barium	**0.019**		0.010	0.00089	mg/L		02/06/25 06:25	02/14/25 12:25	1
Beryllium	<0.00020		0.0025	0.00020	mg/L		02/06/25 06:25	02/14/25 12:25	1
Boron	**2.4**		0.080	0.022	mg/L		02/06/25 06:25	02/14/25 12:25	1
Cadmium	<0.000078		0.0025	0.000078	mg/L		02/06/25 06:25	02/14/25 12:25	1
Calcium	**61**		0.50	0.14	mg/L		02/06/25 06:25	02/14/25 12:25	1
Chromium	<0.0012		0.0020	0.0012	mg/L		02/06/25 06:25	02/14/25 12:25	1
Cobalt	**0.0029**		0.0025	0.00022	mg/L		02/06/25 06:25	02/14/25 12:25	1
Lead	<0.00021		0.0010	0.00021	mg/L		02/06/25 06:25	02/14/25 12:25	1
Lithium	**0.16**		0.0050	0.0020	mg/L		02/06/25 06:25	02/14/25 12:25	1
Molybdenum	<0.00086		0.015	0.00086	mg/L		02/06/25 06:25	02/14/25 12:25	1
Selenium	<0.00099		0.0050	0.00099	mg/L		02/06/25 06:25	02/14/25 12:25	1
Thallium	<0.00026		0.0010	0.00026	mg/L		02/06/25 06:25	02/14/25 12:25	1

Method: SW846 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.000080		0.00020	0.000080	mg/L		02/11/25 12:48	02/11/25 17:55	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids (SM 2540C-2011)	**330**		40	40	mg/L			02/06/25 06:37	1

Client Sample ID: MCI-MGWC-20

Lab Sample ID: 680-261520-14

Date Collected: 02/04/25 16:15
Matrix: Water
Date Received: 02/05/25 09:41

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**14**		5.0	1.0	mg/L			02/07/25 20:15	5
Fluoride	<0.20		0.50	0.20	mg/L			02/07/25 20:15	5
Sulfate	**160**		5.0	2.0	mg/L			02/07/25 20:15	5

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.00034		0.0020	0.00034	mg/L		02/06/25 06:25	02/14/25 12:27	1
Arsenic	**0.0022**		0.0010	0.00086	mg/L		02/06/25 06:25	02/14/25 12:27	1
Barium	**0.043**		0.010	0.00089	mg/L		02/06/25 06:25	02/14/25 12:27	1
Beryllium	<0.00020		0.0025	0.00020	mg/L		02/06/25 06:25	02/14/25 12:27	1
Boron	**1.6**		0.080	0.022	mg/L		02/06/25 06:25	02/14/25 12:27	1
Cadmium	**0.0049**		0.0025	0.000078	mg/L		02/06/25 06:25	02/14/25 12:27	1
Calcium	**49**		0.50	0.14	mg/L		02/06/25 06:25	02/14/25 12:27	1
Chromium	<0.0012		0.0020	0.0012	mg/L		02/06/25 06:25	02/14/25 12:27	1
Cobalt	**0.00056**	**J**	0.0025	0.00022	mg/L		02/06/25 06:25	02/14/25 12:27	1

Client Sample ID: MCI-MGWC-20

Lab Sample ID: 680-261520-14

Date Collected: 02/04/25 16:15

Matrix: Water

Date Received: 02/05/25 09:41

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	<0.00021		0.0010	0.00021	mg/L		02/06/25 06:25	02/14/25 12:27	1
Lithium	**0.010**		0.0050	0.0020	mg/L		02/06/25 06:25	02/14/25 12:27	1
Molybdenum	<0.00086		0.015	0.00086	mg/L		02/06/25 06:25	02/14/25 12:27	1
Selenium	<0.00099		0.0050	0.00099	mg/L		02/06/25 06:25	02/14/25 12:27	1
Thallium	<0.00026		0.0010	0.00026	mg/L		02/06/25 06:25	02/14/25 12:27	1

Method: SW846 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.000080		0.00020	0.000080	mg/L		02/11/25 12:48	02/11/25 17:20	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids (SM 2540C-2011)	**310**		40	40	mg/L			02/10/25 08:57	1

Client Sample ID: MCI-AP1-EB-04

Lab Sample ID: 680-261520-15

Date Collected: 02/04/25 15:50

Matrix: Water

Date Received: 02/05/25 09:41

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	<0.20		1.0	0.20	mg/L			02/07/25 20:25	1
Fluoride	<0.040		0.10	0.040	mg/L			02/07/25 20:25	1
Sulfate	<0.40		1.0	0.40	mg/L			02/07/25 20:25	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.00034		0.0020	0.00034	mg/L		02/06/25 06:25	02/06/25 17:40	1
Arsenic	<0.00086		0.0010	0.00086	mg/L		02/06/25 06:25	02/06/25 17:40	1
Barium	<0.00089		0.010	0.00089	mg/L		02/06/25 06:25	02/06/25 17:40	1
Beryllium	<0.00020		0.0025	0.00020	mg/L		02/06/25 06:25	02/07/25 15:16	1
Boron	<0.022		0.080	0.022	mg/L		02/06/25 06:25	02/06/25 17:40	1
Cadmium	<0.000078		0.0025	0.000078	mg/L		02/06/25 06:25	02/06/25 17:40	1
Calcium	<0.14		0.50	0.14	mg/L		02/06/25 06:25	02/06/25 17:40	1
Chromium	<0.0012		0.0020	0.0012	mg/L		02/06/25 06:25	02/06/25 17:40	1
Cobalt	<0.00022		0.0025	0.00022	mg/L		02/06/25 06:25	02/06/25 17:40	1
Lead	**0.00047**	**J**	0.0010	0.00021	mg/L		02/06/25 06:25	02/06/25 17:40	1
Lithium	<0.0020		0.0050	0.0020	mg/L		02/06/25 06:25	02/07/25 15:16	1
Molybdenum	<0.00086		0.015	0.00086	mg/L		02/06/25 06:25	02/06/25 17:40	1
Selenium	<0.00099		0.0050	0.00099	mg/L		02/06/25 06:25	02/06/25 17:40	1
Thallium	<0.00026		0.0010	0.00026	mg/L		02/06/25 06:25	02/06/25 17:40	1

Method: SW846 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.000080		0.00020	0.000080	mg/L		02/11/25 12:48	02/11/25 17:27	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids (SM 2540C-2011)	<10		10	10	mg/L			02/10/25 08:57	1

Client: Southern Company
Project/Site: Plant McIntosh Ash Pond 1

Job ID: 680-261520-1

Client Sample ID: MCI-AP1-FB-02

Lab Sample ID: 680-261520-16

Date Collected: 02/04/25 16:15

Matrix: Water

Date Received: 02/05/25 09:41

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	<0.20		1.0	0.20	mg/L			02/07/25 20:34	1
Fluoride	<0.040		0.10	0.040	mg/L			02/07/25 20:34	1
Sulfate	<0.40		1.0	0.40	mg/L			02/07/25 20:34	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.00034		0.0020	0.00034	mg/L		02/06/25 06:25	02/06/25 18:06	1
Arsenic	<0.00086		0.0010	0.00086	mg/L		02/06/25 06:25	02/06/25 18:06	1
Barium	<0.00089		0.010	0.00089	mg/L		02/06/25 06:25	02/06/25 18:06	1
Beryllium	<0.00020		0.0025	0.00020	mg/L		02/06/25 06:25	02/07/25 15:36	1
Boron	<0.022		0.080	0.022	mg/L		02/06/25 06:25	02/07/25 15:36	1
Cadmium	<0.000078		0.0025	0.000078	mg/L		02/06/25 06:25	02/06/25 18:06	1
Calcium	<0.14		0.50	0.14	mg/L		02/06/25 06:25	02/06/25 18:06	1
Chromium	<0.0012		0.0020	0.0012	mg/L		02/06/25 06:25	02/06/25 18:06	1
Cobalt	<0.00022		0.0025	0.00022	mg/L		02/06/25 06:25	02/06/25 18:06	1
Lead	<0.00021		0.0010	0.00021	mg/L		02/06/25 06:25	02/06/25 18:06	1
Lithium	<0.0020		0.0050	0.0020	mg/L		02/06/25 06:25	02/07/25 15:36	1
Molybdenum	<0.00086		0.015	0.00086	mg/L		02/06/25 06:25	02/06/25 18:06	1
Selenium	<0.00099		0.0050	0.00099	mg/L		02/06/25 06:25	02/06/25 18:06	1
Thallium	<0.00026		0.0010	0.00026	mg/L		02/06/25 06:25	02/06/25 18:06	1

Method: SW846 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.000080		0.00020	0.000080	mg/L		02/11/25 12:48	02/11/25 17:43	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids (SM 2540C-2011)	<10		10	10	mg/L			02/10/25 08:57	1

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

Lab Sample ID: MB 680-874884/2
Matrix: Water
Analysis Batch: 874884

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	<0.20		1.0	0.20	mg/L			02/07/25 12:10	1
Fluoride	<0.040		0.10	0.040	mg/L			02/07/25 12:10	1
Sulfate	<0.40		1.0	0.40	mg/L			02/07/25 12:10	1

Lab Sample ID: LCS 680-874884/3
Matrix: Water
Analysis Batch: 874884

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Chloride	10.0	10.3		mg/L		103	90 - 110
Fluoride	2.00	2.13		mg/L		107	90 - 110
Sulfate	10.0	10.7		mg/L		107	90 - 110

Lab Sample ID: LCSD 680-874884/4
Matrix: Water
Analysis Batch: 874884

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

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chloride	10.0	10.3		mg/L		103	90 - 110	0	15
Fluoride	2.00	2.14		mg/L		107	90 - 110	0	15
Sulfate	10.0	10.7		mg/L		107	90 - 110	0	15

Lab Sample ID: 680-261520-9 MS
Matrix: Water
Analysis Batch: 874884

Client Sample ID: MCI-MGWC-12
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Chloride	5.7	F1	10.0	16.6		mg/L		109	80 - 120
Fluoride	0.043	J F1	2.00	2.33		mg/L		114	80 - 120
Sulfate	11	F1	10.0	23.7	F1	mg/L		124	80 - 120

Lab Sample ID: 680-261520-9 MSD
Matrix: Water
Analysis Batch: 874884

Client Sample ID: MCI-MGWC-12
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chloride	5.7	F1	10.0	18.6	F1	mg/L		129	80 - 120	11	15
Fluoride	0.043	J F1	2.00	2.63	F1	mg/L		129	80 - 120	12	15
Sulfate	11	F1	10.0	25.5	F1	mg/L		143	80 - 120	7	15

Lab Sample ID: MB 680-874972/2
Matrix: Water
Analysis Batch: 874972

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	<0.20		1.0	0.20	mg/L			02/08/25 11:55	1
Fluoride	<0.040		0.10	0.040	mg/L			02/08/25 11:55	1
Sulfate	<0.40		1.0	0.40	mg/L			02/08/25 11:55	1

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

Lab Sample ID: LCS 680-874972/3
Matrix: Water
Analysis Batch: 874972

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

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Chloride			10.0	10.1		mg/L		101	90 - 110		
Fluoride			2.00	2.16		mg/L		108	90 - 110		
Sulfate			10.0	10.6		mg/L		106	90 - 110		

Lab Sample ID: LCSD 680-874972/4
Matrix: Water
Analysis Batch: 874972

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

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chloride			10.0	10.3		mg/L		103	90 - 110	1	15
Fluoride			2.00	2.17		mg/L		109	90 - 110	1	15
Sulfate			10.0	10.5		mg/L		105	90 - 110	1	15

Lab Sample ID: 680-261520-4 MS
Matrix: Water
Analysis Batch: 874972

Client Sample ID: MCI-MGWA-10
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits		
Chloride	8.0		10.0	17.6		mg/L		96	80 - 120		
Fluoride	<0.040		2.00	1.85		mg/L		93	80 - 120		
Sulfate	<0.40		10.0	8.64		mg/L		86	80 - 120		

Lab Sample ID: 680-261520-4 MSD
Matrix: Water
Analysis Batch: 874972

Client Sample ID: MCI-MGWA-10
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chloride	8.0		10.0	17.7		mg/L		97	80 - 120	1	15
Fluoride	<0.040		2.00	1.95		mg/L		97	80 - 120	5	15
Sulfate	<0.40		10.0	9.11		mg/L		91	80 - 120	5	15

Method: 6020B - Metals (ICP/MS)

Lab Sample ID: MB 680-874637/1-A
Matrix: Water
Analysis Batch: 875841

Client Sample ID: Method Blank
Prep Type: Total Recoverable
Prep Batch: 874637

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.00034		0.0020	0.00034	mg/L		02/06/25 06:25	02/14/25 11:47	1
Arsenic	<0.00086		0.0010	0.00086	mg/L		02/06/25 06:25	02/14/25 11:47	1
Barium	<0.00089		0.010	0.00089	mg/L		02/06/25 06:25	02/14/25 11:47	1
Beryllium	<0.00020		0.0025	0.00020	mg/L		02/06/25 06:25	02/14/25 11:47	1
Boron	<0.022		0.080	0.022	mg/L		02/06/25 06:25	02/14/25 11:47	1
Cadmium	<0.000078		0.0025	0.000078	mg/L		02/06/25 06:25	02/14/25 11:47	1
Calcium	<0.14		0.50	0.14	mg/L		02/06/25 06:25	02/14/25 11:47	1
Chromium	<0.0012		0.0020	0.0012	mg/L		02/06/25 06:25	02/14/25 11:47	1
Cobalt	<0.00022		0.0025	0.00022	mg/L		02/06/25 06:25	02/14/25 11:47	1
Lead	<0.00021		0.0010	0.00021	mg/L		02/06/25 06:25	02/14/25 11:47	1
Lithium	<0.0020		0.0050	0.0020	mg/L		02/06/25 06:25	02/14/25 11:47	1
Molybdenum	<0.00086		0.015	0.00086	mg/L		02/06/25 06:25	02/14/25 11:47	1

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

Lab Sample ID: MB 680-874637/1-A
Matrix: Water
Analysis Batch: 875841

Client Sample ID: Method Blank
Prep Type: Total Recoverable
Prep Batch: 874637

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Selenium	<0.00099		0.0050	0.00099	mg/L		02/06/25 06:25	02/14/25 11:47	1
Thallium	<0.00026		0.0010	0.00026	mg/L		02/06/25 06:25	02/14/25 11:47	1

Lab Sample ID: LCS 680-874637/2-A
Matrix: Water
Analysis Batch: 875841

Client Sample ID: Lab Control Sample
Prep Type: Total Recoverable
Prep Batch: 874637

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Antimony	0.0500	0.0502		mg/L		100	80 - 120
Arsenic	0.100	0.0989		mg/L		99	80 - 120
Barium	0.100	0.101		mg/L		101	80 - 120
Beryllium	0.0500	0.0496		mg/L		99	80 - 120
Boron	0.400	0.388		mg/L		97	80 - 120
Cadmium	0.0500	0.0517		mg/L		103	80 - 120
Calcium	5.00	5.22		mg/L		104	80 - 120
Chromium	0.100	0.105		mg/L		105	80 - 120
Cobalt	0.0500	0.0524		mg/L		105	80 - 120
Lead	0.500	0.501		mg/L		100	80 - 120
Lithium	0.500	0.514		mg/L		103	80 - 120
Molybdenum	0.100	0.0993		mg/L		99	80 - 120
Selenium	0.100	0.104		mg/L		104	80 - 120
Thallium	0.0500	0.0500		mg/L		100	80 - 120

Lab Sample ID: MB 680-874638/1-A
Matrix: Water
Analysis Batch: 874819

Client Sample ID: Method Blank
Prep Type: Total Recoverable
Prep Batch: 874638

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.00034		0.0020	0.00034	mg/L		02/06/25 06:25	02/06/25 17:35	1
Arsenic	<0.00086		0.0010	0.00086	mg/L		02/06/25 06:25	02/06/25 17:35	1
Barium	<0.00089		0.010	0.00089	mg/L		02/06/25 06:25	02/06/25 17:35	1
Boron	<0.022		0.080	0.022	mg/L		02/06/25 06:25	02/06/25 17:35	1
Cadmium	<0.000078		0.0025	0.000078	mg/L		02/06/25 06:25	02/06/25 17:35	1
Calcium	<0.14		0.50	0.14	mg/L		02/06/25 06:25	02/06/25 17:35	1
Chromium	<0.0012		0.0020	0.0012	mg/L		02/06/25 06:25	02/06/25 17:35	1
Cobalt	<0.00022		0.0025	0.00022	mg/L		02/06/25 06:25	02/06/25 17:35	1
Lead	<0.00021		0.0010	0.00021	mg/L		02/06/25 06:25	02/06/25 17:35	1
Molybdenum	<0.00086		0.015	0.00086	mg/L		02/06/25 06:25	02/06/25 17:35	1
Selenium	<0.00099		0.0050	0.00099	mg/L		02/06/25 06:25	02/06/25 17:35	1
Thallium	<0.00026		0.0010	0.00026	mg/L		02/06/25 06:25	02/06/25 17:35	1

Lab Sample ID: MB 680-874638/1-A
Matrix: Water
Analysis Batch: 874971

Client Sample ID: Method Blank
Prep Type: Total Recoverable
Prep Batch: 874638

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Beryllium	<0.00020		0.0025	0.00020	mg/L		02/06/25 06:25	02/07/25 15:08	1
Lithium	<0.0020		0.0050	0.0020	mg/L		02/06/25 06:25	02/07/25 15:08	1

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

Lab Sample ID: LCS 680-874638/2-A
Matrix: Water
Analysis Batch: 874819

Client Sample ID: Lab Control Sample
Prep Type: Total Recoverable
Prep Batch: 874638

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Antimony	0.0500	0.0522		mg/L		104	80 - 120
Arsenic	0.100	0.101		mg/L		101	80 - 120
Barium	0.100	0.107		mg/L		107	80 - 120
Boron	0.400	0.433		mg/L		108	80 - 120
Cadmium	0.0500	0.0523		mg/L		105	80 - 120
Calcium	5.00	5.38		mg/L		108	80 - 120
Chromium	0.100	0.100		mg/L		100	80 - 120
Cobalt	0.0500	0.0507		mg/L		101	80 - 120
Lead	0.500	0.517		mg/L		103	80 - 120
Molybdenum	0.100	0.111		mg/L		111	80 - 120
Selenium	0.100	0.102		mg/L		102	80 - 120
Thallium	0.0500	0.0505		mg/L		101	80 - 120

Lab Sample ID: LCS 680-874638/2-A
Matrix: Water
Analysis Batch: 874971

Client Sample ID: Lab Control Sample
Prep Type: Total Recoverable
Prep Batch: 874638

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Beryllium	0.0500	0.0479		mg/L		96	80 - 120
Lithium	0.500	0.479		mg/L		96	80 - 120

Lab Sample ID: 680-261520-15 MS
Matrix: Water
Analysis Batch: 874819

Client Sample ID: MCI-AP1-EB-04
Prep Type: Total Recoverable
Prep Batch: 874638

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Antimony	<0.00034		0.0500	0.0531		mg/L		106	75 - 125
Arsenic	<0.00086		0.100	0.102		mg/L		102	75 - 125
Barium	<0.00089		0.100	0.102		mg/L		102	75 - 125
Boron	<0.022		0.400	0.445		mg/L		111	75 - 125
Cadmium	<0.000078		0.0500	0.0514		mg/L		103	75 - 125
Calcium	<0.14		5.00	5.30		mg/L		106	75 - 125
Chromium	<0.0012		0.100	0.0958		mg/L		96	75 - 125
Cobalt	<0.00022		0.0500	0.0486		mg/L		97	75 - 125
Lead	0.00047	J	0.500	0.525		mg/L		105	75 - 125
Molybdenum	<0.00086		0.100	0.108		mg/L		108	75 - 125
Selenium	<0.00099		0.100	0.104		mg/L		104	75 - 125
Thallium	<0.00026		0.0500	0.0508		mg/L		102	75 - 125

Lab Sample ID: 680-261520-15 MS
Matrix: Water
Analysis Batch: 874971

Client Sample ID: MCI-AP1-EB-04
Prep Type: Total Recoverable
Prep Batch: 874638

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Beryllium	<0.00020		0.0500	0.0497		mg/L		99	75 - 125
Lithium	<0.0020		0.500	0.484		mg/L		97	75 - 125

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

Lab Sample ID: 680-261520-15 MSD
Matrix: Water
Analysis Batch: 874819

Client Sample ID: MCI-AP1-EB-04
Prep Type: Total Recoverable
Prep Batch: 874638

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Antimony	<0.00034		0.0500	0.0540		mg/L		108	75 - 125	2	20
Arsenic	<0.00086		0.100	0.103		mg/L		103	75 - 125	1	20
Barium	<0.00089		0.100	0.101		mg/L		101	75 - 125	0	20
Boron	<0.022		0.400	0.472		mg/L		118	75 - 125	6	20
Cadmium	<0.000078		0.0500	0.0528		mg/L		106	75 - 125	3	20
Calcium	<0.14		5.00	5.44		mg/L		109	75 - 125	3	20
Chromium	<0.0012		0.100	0.0980		mg/L		98	75 - 125	2	20
Cobalt	<0.00022		0.0500	0.0497		mg/L		99	75 - 125	2	20
Lead	0.00047	J	0.500	0.532		mg/L		106	75 - 125	1	20
Molybdenum	<0.00086		0.100	0.109		mg/L		109	75 - 125	1	20
Selenium	<0.00099		0.100	0.105		mg/L		105	75 - 125	1	20
Thallium	<0.00026		0.0500	0.0512		mg/L		102	75 - 125	1	20

Lab Sample ID: 680-261520-15 MSD
Matrix: Water
Analysis Batch: 874971

Client Sample ID: MCI-AP1-EB-04
Prep Type: Total Recoverable
Prep Batch: 874638

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Beryllium	<0.00020		0.0500	0.0517		mg/L		103	75 - 125	4	20
Lithium	<0.0020		0.500	0.506		mg/L		101	75 - 125	4	20

Lab Sample ID: 680-261528-C-9-B MS
Matrix: Water
Analysis Batch: 875841

Client Sample ID: Matrix Spike
Prep Type: Dissolved
Prep Batch: 874637

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Antimony	<0.00034		0.0500	0.0523		mg/L		105	75 - 125
Arsenic	<0.00086		0.100	0.101		mg/L		101	75 - 125
Barium	0.0075	J	0.100	0.112		mg/L		104	75 - 125
Beryllium	<0.00020		0.0500	0.0508		mg/L		102	75 - 125
Boron	<0.022		0.400	0.426		mg/L		106	75 - 125
Cadmium	<0.000078		0.0500	0.0536		mg/L		107	75 - 125
Calcium	1.8		5.00	7.13		mg/L		106	75 - 125
Chromium	<0.0012		0.100	0.109		mg/L		109	75 - 125
Cobalt	0.00034	J	0.0500	0.0538		mg/L		107	75 - 125
Lead	<0.00021		0.500	0.519		mg/L		104	75 - 125
Lithium	0.0047	J	0.500	0.527		mg/L		105	75 - 125
Molybdenum	<0.00086		0.100	0.104		mg/L		104	75 - 125
Selenium	0.0010	J	0.100	0.104		mg/L		103	75 - 125
Thallium	<0.00026		0.0500	0.0529		mg/L		106	75 - 125

Lab Sample ID: 680-261528-C-9-C MSD
Matrix: Water
Analysis Batch: 875841

Client Sample ID: Matrix Spike Duplicate
Prep Type: Dissolved
Prep Batch: 874637

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Antimony	<0.00034		0.0500	0.0525		mg/L		105	75 - 125	0	20
Arsenic	<0.00086		0.100	0.103		mg/L		103	75 - 125	1	20
Barium	0.0075	J	0.100	0.113		mg/L		106	75 - 125	1	20

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

Lab Sample ID: 680-261528-C-9-C MSD — **Client Sample ID: Matrix Spike Duplicate**
Matrix: Water — **Prep Type: Dissolved**
Analysis Batch: 875841 — **Prep Batch: 874637**

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Beryllium	<0.00020		0.0500	0.0504		mg/L		101	75 - 125	1	20
Boron	<0.022		0.400	0.444		mg/L		111	75 - 125	4	20
Cadmium	<0.000078		0.0500	0.0538		mg/L		108	75 - 125	0	20
Calcium	1.8		5.00	7.10		mg/L		105	75 - 125	0	20
Chromium	<0.0012		0.100	0.110		mg/L		110	75 - 125	2	20
Cobalt	0.00034	J	0.0500	0.0552		mg/L		110	75 - 125	2	20
Lead	<0.00021		0.500	0.530		mg/L		106	75 - 125	2	20
Lithium	0.0047	J	0.500	0.537		mg/L		106	75 - 125	2	20
Molybdenum	<0.00086		0.100	0.105		mg/L		105	75 - 125	2	20
Selenium	0.0010	J	0.100	0.106		mg/L		105	75 - 125	2	20
Thallium	<0.00026		0.0500	0.0528		mg/L		106	75 - 125	0	20

Method: 7470A - Mercury (CVAA)

Lab Sample ID: MB 680-875148/1-A — **Client Sample ID: Method Blank**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 875328 — **Prep Batch: 875148**

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.000080		0.00020	0.000080	mg/L		02/10/25 13:44	02/11/25 11:43	1

Lab Sample ID: LCS 680-875148/2-A — **Client Sample ID: Lab Control Sample**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 875328 — **Prep Batch: 875148**

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Mercury	0.00250	0.00270		mg/L		108	80 - 120

Lab Sample ID: 400-270294-C-3-C MS — **Client Sample ID: Matrix Spike**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 875328 — **Prep Batch: 875148**

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Mercury	<0.000080		0.00100	0.00101		mg/L		101	80 - 120

Lab Sample ID: 400-270294-C-3-D MSD — **Client Sample ID: Matrix Spike Duplicate**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 875328 — **Prep Batch: 875148**

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Mercury	<0.000080		0.00100	0.000998		mg/L		100	80 - 120	1	20

Lab Sample ID: MB 680-875318/1-A — **Client Sample ID: Method Blank**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 875428 — **Prep Batch: 875318**

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.000080		0.00020	0.000080	mg/L		02/11/25 12:48	02/11/25 17:06	1

Method: 7470A - Mercury (CVAA) (Continued)

Lab Sample ID: LCS 680-875318/2-A
Matrix: Water
Analysis Batch: 875428

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 875318

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Mercury			0.00250	0.00276		mg/L		111	80 - 120		

Lab Sample ID: 680-261690-C-6-E MS
Matrix: Water
Analysis Batch: 875428

Client Sample ID: Matrix Spike
Prep Type: Total/NA
Prep Batch: 875318

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits		
Mercury	<0.000080		0.00100	0.00112		mg/L		112	80 - 120		

Lab Sample ID: 680-261690-C-6-F MSD
Matrix: Water
Analysis Batch: 875428

Client Sample ID: Matrix Spike Duplicate
Prep Type: Total/NA
Prep Batch: 875318

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Mercury	<0.000080		0.00100	0.00110		mg/L		110	80 - 120	2	20

Lab Sample ID: MB 680-875499/1-A
Matrix: Water
Analysis Batch: 875621

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 875499

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.000080		0.00020	0.000080	mg/L		02/12/25 12:58	02/12/25 18:02	1

Lab Sample ID: LCS 680-875499/2-A
Matrix: Water
Analysis Batch: 875621

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 875499

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Mercury			0.00250	0.00252		mg/L		101	80 - 120		

Lab Sample ID: 400-270604-J-1-C MS
Matrix: Water
Analysis Batch: 875621

Client Sample ID: Matrix Spike
Prep Type: Total/NA
Prep Batch: 875499

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits		
Mercury	<0.000080		0.00100	0.00103		mg/L		103	80 - 120		

Lab Sample ID: 400-270604-J-1-D MSD
Matrix: Water
Analysis Batch: 875621

Client Sample ID: Matrix Spike Duplicate
Prep Type: Total/NA
Prep Batch: 875499

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Mercury	<0.000080		0.00100	0.00101		mg/L		101	80 - 120	2	20

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

Lab Sample ID: MB 680-874640/1
Matrix: Water
Analysis Batch: 874640

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	<10		10	10	mg/L			02/06/25 06:37	1

Lab Sample ID: LCS 680-874640/2
Matrix: Water
Analysis Batch: 874640

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	2440	2420		mg/L		99	80 - 120

Lab Sample ID: LCSD 680-874640/3
Matrix: Water
Analysis Batch: 874640

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

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Total Dissolved Solids	2440	2390		mg/L		98	80 - 120	1	25

Lab Sample ID: 680-261520-3 DU
Matrix: Water
Analysis Batch: 874640

Client Sample ID: MCI-MGWA-6A
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
Total Dissolved Solids	250		256		mg/L		0.8	5

Lab Sample ID: MB 680-875047/1
Matrix: Water
Analysis Batch: 875047

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	<10		10	10	mg/L			02/10/25 08:57	1

Lab Sample ID: LCS 680-875047/2
Matrix: Water
Analysis Batch: 875047

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	2440	2410		mg/L		99	80 - 120

Lab Sample ID: LCSD 680-875047/3
Matrix: Water
Analysis Batch: 875047

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

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Total Dissolved Solids	2440	2370		mg/L		97	80 - 120	2	25

Lab Sample ID: 680-261520-14 DU
Matrix: Water
Analysis Batch: 875047

Client Sample ID: MCI-MGWC-20
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
Total Dissolved Solids	310		288	F3	mg/L		9	5

HPLC/IC

Analysis Batch: 874884

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-261520-1	MCI-MGWA-5	Total/NA	Water	300.0-1993 R2.1	
680-261520-2	MCI-MGWA-6	Total/NA	Water	300.0-1993 R2.1	
680-261520-3	MCI-MGWA-6A	Total/NA	Water	300.0-1993 R2.1	
680-261520-5	MCI-MGWA-11	Total/NA	Water	300.0-1993 R2.1	
680-261520-6	MCI-MGWC-3	Total/NA	Water	300.0-1993 R2.1	
680-261520-7	MCI-MGWC-1	Total/NA	Water	300.0-1993 R2.1	
680-261520-8	MCI-MGWC-8	Total/NA	Water	300.0-1993 R2.1	
680-261520-9	MCI-MGWC-12	Total/NA	Water	300.0-1993 R2.1	
680-261520-10	MCI-AP1-FD-01	Total/NA	Water	300.0-1993 R2.1	
680-261520-11	MCI-AP1-EB-03	Total/NA	Water	300.0-1993 R2.1	
680-261520-12	MCI-AP1-FB-01	Total/NA	Water	300.0-1993 R2.1	
680-261520-13	MCI-MGWC-7	Total/NA	Water	300.0-1993 R2.1	
680-261520-14	MCI-MGWC-20	Total/NA	Water	300.0-1993 R2.1	
680-261520-15	MCI-AP1-EB-04	Total/NA	Water	300.0-1993 R2.1	
680-261520-16	MCI-AP1-FB-02	Total/NA	Water	300.0-1993 R2.1	
MB 680-874884/2	Method Blank	Total/NA	Water	300.0-1993 R2.1	
LCS 680-874884/3	Lab Control Sample	Total/NA	Water	300.0-1993 R2.1	
LCSD 680-874884/4	Lab Control Sample Dup	Total/NA	Water	300.0-1993 R2.1	
680-261520-9 MS	MCI-MGWC-12	Total/NA	Water	300.0-1993 R2.1	
680-261520-9 MSD	MCI-MGWC-12	Total/NA	Water	300.0-1993 R2.1	

Analysis Batch: 874972

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-261520-4	MCI-MGWA-10	Total/NA	Water	300.0-1993 R2.1	
MB 680-874972/2	Method Blank	Total/NA	Water	300.0-1993 R2.1	
LCS 680-874972/3	Lab Control Sample	Total/NA	Water	300.0-1993 R2.1	
LCSD 680-874972/4	Lab Control Sample Dup	Total/NA	Water	300.0-1993 R2.1	
680-261520-4 MS	MCI-MGWA-10	Total/NA	Water	300.0-1993 R2.1	
680-261520-4 MSD	MCI-MGWA-10	Total/NA	Water	300.0-1993 R2.1	

Metals

Prep Batch: 874637

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-261520-1	MCI-MGWA-5	Total Recoverable	Water	3005A	
680-261520-2	MCI-MGWA-6	Total Recoverable	Water	3005A	
680-261520-3	MCI-MGWA-6A	Total Recoverable	Water	3005A	
680-261520-4	MCI-MGWA-10	Total Recoverable	Water	3005A	
680-261520-5	MCI-MGWA-11	Total Recoverable	Water	3005A	
680-261520-6	MCI-MGWC-3	Total Recoverable	Water	3005A	
680-261520-7	MCI-MGWC-1	Total Recoverable	Water	3005A	
680-261520-8	MCI-MGWC-8	Total Recoverable	Water	3005A	
680-261520-9	MCI-MGWC-12	Total Recoverable	Water	3005A	
680-261520-10	MCI-AP1-FD-01	Total Recoverable	Water	3005A	
680-261520-12	MCI-AP1-FB-01	Total Recoverable	Water	3005A	
680-261520-13	MCI-MGWC-7	Total Recoverable	Water	3005A	
680-261520-14	MCI-MGWC-20	Total Recoverable	Water	3005A	
MB 680-874637/1-A	Method Blank	Total Recoverable	Water	3005A	
LCS 680-874637/2-A	Lab Control Sample	Total Recoverable	Water	3005A	
680-261528-C-9-B MS	Matrix Spike	Dissolved	Water	3005A	
680-261528-C-9-C MSD	Matrix Spike Duplicate	Dissolved	Water	3005A	

Metals

Prep Batch: 874638

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-261520-11	MCI-AP1-EB-03	Total Recoverable	Water	3005A	
680-261520-15	MCI-AP1-EB-04	Total Recoverable	Water	3005A	
680-261520-16	MCI-AP1-FB-02	Total Recoverable	Water	3005A	
MB 680-874638/1-A	Method Blank	Total Recoverable	Water	3005A	
LCS 680-874638/2-A	Lab Control Sample	Total Recoverable	Water	3005A	
680-261520-15 MS	MCI-AP1-EB-04	Total Recoverable	Water	3005A	
680-261520-15 MSD	MCI-AP1-EB-04	Total Recoverable	Water	3005A	

Analysis Batch: 874819

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-261520-11	MCI-AP1-EB-03	Total Recoverable	Water	6020B	874638
680-261520-15	MCI-AP1-EB-04	Total Recoverable	Water	6020B	874638
680-261520-16	MCI-AP1-FB-02	Total Recoverable	Water	6020B	874638
MB 680-874638/1-A	Method Blank	Total Recoverable	Water	6020B	874638
LCS 680-874638/2-A	Lab Control Sample	Total Recoverable	Water	6020B	874638
680-261520-15 MS	MCI-AP1-EB-04	Total Recoverable	Water	6020B	874638
680-261520-15 MSD	MCI-AP1-EB-04	Total Recoverable	Water	6020B	874638

Analysis Batch: 874971

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-261520-11	MCI-AP1-EB-03	Total Recoverable	Water	6020B	874638
680-261520-15	MCI-AP1-EB-04	Total Recoverable	Water	6020B	874638
680-261520-16	MCI-AP1-FB-02	Total Recoverable	Water	6020B	874638
MB 680-874638/1-A	Method Blank	Total Recoverable	Water	6020B	874638
LCS 680-874638/2-A	Lab Control Sample	Total Recoverable	Water	6020B	874638
680-261520-15 MS	MCI-AP1-EB-04	Total Recoverable	Water	6020B	874638
680-261520-15 MSD	MCI-AP1-EB-04	Total Recoverable	Water	6020B	874638

Prep Batch: 875148

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-261520-1	MCI-MGWA-5	Total/NA	Water	7470A	
680-261520-2	MCI-MGWA-6	Total/NA	Water	7470A	
680-261520-7	MCI-MGWC-1	Total/NA	Water	7470A	
MB 680-875148/1-A	Method Blank	Total/NA	Water	7470A	
LCS 680-875148/2-A	Lab Control Sample	Total/NA	Water	7470A	
400-270294-C-3-C MS	Matrix Spike	Total/NA	Water	7470A	
400-270294-C-3-D MSD	Matrix Spike Duplicate	Total/NA	Water	7470A	

Prep Batch: 875318

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-261520-3	MCI-MGWA-6A	Total/NA	Water	7470A	
680-261520-4	MCI-MGWA-10	Total/NA	Water	7470A	
680-261520-5	MCI-MGWA-11	Total/NA	Water	7470A	
680-261520-6	MCI-MGWC-3	Total/NA	Water	7470A	
680-261520-8	MCI-MGWC-8	Total/NA	Water	7470A	
680-261520-9	MCI-MGWC-12	Total/NA	Water	7470A	
680-261520-10	MCI-AP1-FD-01	Total/NA	Water	7470A	
680-261520-12	MCI-AP1-FB-01	Total/NA	Water	7470A	
680-261520-13	MCI-MGWC-7	Total/NA	Water	7470A	
680-261520-14	MCI-MGWC-20	Total/NA	Water	7470A	
680-261520-15	MCI-AP1-EB-04	Total/NA	Water	7470A	

Metals (Continued)

Prep Batch: 875318 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-261520-16	MCI-AP1-FB-02	Total/NA	Water	7470A	
MB 680-875318/1-A	Method Blank	Total/NA	Water	7470A	
LCS 680-875318/2-A	Lab Control Sample	Total/NA	Water	7470A	
680-261690-C-6-E MS	Matrix Spike	Total/NA	Water	7470A	
680-261690-C-6-F MSD	Matrix Spike Duplicate	Total/NA	Water	7470A	

Analysis Batch: 875328

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-261520-1	MCI-MGWA-5	Total/NA	Water	7470A	875148
680-261520-2	MCI-MGWA-6	Total/NA	Water	7470A	875148
680-261520-7	MCI-MGWC-1	Total/NA	Water	7470A	875148
MB 680-875148/1-A	Method Blank	Total/NA	Water	7470A	875148
LCS 680-875148/2-A	Lab Control Sample	Total/NA	Water	7470A	875148
400-270294-C-3-C MS	Matrix Spike	Total/NA	Water	7470A	875148
400-270294-C-3-D MSD	Matrix Spike Duplicate	Total/NA	Water	7470A	875148

Analysis Batch: 875428

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-261520-3	MCI-MGWA-6A	Total/NA	Water	7470A	875318
680-261520-4	MCI-MGWA-10	Total/NA	Water	7470A	875318
680-261520-5	MCI-MGWA-11	Total/NA	Water	7470A	875318
680-261520-6	MCI-MGWC-3	Total/NA	Water	7470A	875318
680-261520-8	MCI-MGWC-8	Total/NA	Water	7470A	875318
680-261520-9	MCI-MGWC-12	Total/NA	Water	7470A	875318
680-261520-10	MCI-AP1-FD-01	Total/NA	Water	7470A	875318
680-261520-12	MCI-AP1-FB-01	Total/NA	Water	7470A	875318
680-261520-13	MCI-MGWC-7	Total/NA	Water	7470A	875318
680-261520-14	MCI-MGWC-20	Total/NA	Water	7470A	875318
680-261520-15	MCI-AP1-EB-04	Total/NA	Water	7470A	875318
680-261520-16	MCI-AP1-FB-02	Total/NA	Water	7470A	875318
MB 680-875318/1-A	Method Blank	Total/NA	Water	7470A	875318
LCS 680-875318/2-A	Lab Control Sample	Total/NA	Water	7470A	875318
680-261690-C-6-E MS	Matrix Spike	Total/NA	Water	7470A	875318
680-261690-C-6-F MSD	Matrix Spike Duplicate	Total/NA	Water	7470A	875318

Prep Batch: 875499

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-261520-11	MCI-AP1-EB-03	Total/NA	Water	7470A	
MB 680-875499/1-A	Method Blank	Total/NA	Water	7470A	
LCS 680-875499/2-A	Lab Control Sample	Total/NA	Water	7470A	
400-270604-J-1-C MS	Matrix Spike	Total/NA	Water	7470A	
400-270604-J-1-D MSD	Matrix Spike Duplicate	Total/NA	Water	7470A	

Analysis Batch: 875621

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-261520-11	MCI-AP1-EB-03	Total/NA	Water	7470A	875499
MB 680-875499/1-A	Method Blank	Total/NA	Water	7470A	875499
LCS 680-875499/2-A	Lab Control Sample	Total/NA	Water	7470A	875499
400-270604-J-1-C MS	Matrix Spike	Total/NA	Water	7470A	875499
400-270604-J-1-D MSD	Matrix Spike Duplicate	Total/NA	Water	7470A	875499

Metals

Analysis Batch: 875841

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-261520-1	MCI-MGWA-5	Total Recoverable	Water	6020B	874637
680-261520-2	MCI-MGWA-6	Total Recoverable	Water	6020B	874637
680-261520-3	MCI-MGWA-6A	Total Recoverable	Water	6020B	874637
680-261520-4	MCI-MGWA-10	Total Recoverable	Water	6020B	874637
680-261520-5	MCI-MGWA-11	Total Recoverable	Water	6020B	874637
680-261520-6	MCI-MGWC-3	Total Recoverable	Water	6020B	874637
680-261520-7	MCI-MGWC-1	Total Recoverable	Water	6020B	874637
680-261520-8	MCI-MGWC-8	Total Recoverable	Water	6020B	874637
680-261520-9	MCI-MGWC-12	Total Recoverable	Water	6020B	874637
680-261520-10	MCI-AP1-FD-01	Total Recoverable	Water	6020B	874637
680-261520-12	MCI-AP1-FB-01	Total Recoverable	Water	6020B	874637
680-261520-13	MCI-MGWC-7	Total Recoverable	Water	6020B	874637
680-261520-14	MCI-MGWC-20	Total Recoverable	Water	6020B	874637
MB 680-874637/1-A	Method Blank	Total Recoverable	Water	6020B	874637
LCS 680-874637/2-A	Lab Control Sample	Total Recoverable	Water	6020B	874637
680-261528-C-9-B MS	Matrix Spike	Dissolved	Water	6020B	874637
680-261528-C-9-C MSD	Matrix Spike Duplicate	Dissolved	Water	6020B	874637

General Chemistry

Analysis Batch: 874640

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-261520-1	MCI-MGWA-5	Total/NA	Water	2540C-2011	
680-261520-2	MCI-MGWA-6	Total/NA	Water	2540C-2011	
680-261520-3	MCI-MGWA-6A	Total/NA	Water	2540C-2011	
680-261520-4	MCI-MGWA-10	Total/NA	Water	2540C-2011	
680-261520-5	MCI-MGWA-11	Total/NA	Water	2540C-2011	
680-261520-6	MCI-MGWC-3	Total/NA	Water	2540C-2011	
680-261520-7	MCI-MGWC-1	Total/NA	Water	2540C-2011	
680-261520-8	MCI-MGWC-8	Total/NA	Water	2540C-2011	
680-261520-9	MCI-MGWC-12	Total/NA	Water	2540C-2011	
680-261520-10	MCI-AP1-FD-01	Total/NA	Water	2540C-2011	
680-261520-11	MCI-AP1-EB-03	Total/NA	Water	2540C-2011	
680-261520-12	MCI-AP1-FB-01	Total/NA	Water	2540C-2011	
680-261520-13	MCI-MGWC-7	Total/NA	Water	2540C-2011	
MB 680-874640/1	Method Blank	Total/NA	Water	2540C-2011	
LCS 680-874640/2	Lab Control Sample	Total/NA	Water	2540C-2011	
LCSD 680-874640/3	Lab Control Sample Dup	Total/NA	Water	2540C-2011	
680-261520-3 DU	MCI-MGWA-6A	Total/NA	Water	2540C-2011	

Analysis Batch: 875047

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-261520-14	MCI-MGWC-20	Total/NA	Water	2540C-2011	
680-261520-15	MCI-AP1-EB-04	Total/NA	Water	2540C-2011	
680-261520-16	MCI-AP1-FB-02	Total/NA	Water	2540C-2011	
MB 680-875047/1	Method Blank	Total/NA	Water	2540C-2011	
LCS 680-875047/2	Lab Control Sample	Total/NA	Water	2540C-2011	
LCSD 680-875047/3	Lab Control Sample Dup	Total/NA	Water	2540C-2011	
680-261520-14 DU	MCI-MGWC-20	Total/NA	Water	2540C-2011	

Lab Chronicle

Client: Southern Company
Project/Site: Plant McIntosh Ash Pond 1

Job ID: 680-261520-1

Client Sample ID: MCI-MGWA-5

Lab Sample ID: 680-261520-1

Date Collected: 02/03/25 16:32

Matrix: Water

Date Received: 02/05/25 09:41

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	300.0-1993 R2.1		1	5 mL	5 mL	874884	02/07/25 17:29	BS	EET SAV
	Instrument ID: CICP									
Total Recoverable	Prep	3005A			25 mL	125 mL	874637	02/06/25 06:25	RR	EET SAV
Total Recoverable	Analysis	6020B		1			875841	02/14/25 12:37	BWR	EET SAV
	Instrument ID: ICPMSG									
Total/NA	Prep	7470A			50 mL	50 mL	875148	02/10/25 13:44	MG	EET SAV
Total/NA	Analysis	7470A		1			875328	02/11/25 12:22	BCB	EET SAV
	Instrument ID: QuickTrace3									
Total/NA	Analysis	2540C-2011		1	200 mL	200 mL	874640	02/06/25 06:37	PG	EET SAV
	Instrument ID: NOEQUIP									

Client Sample ID: MCI-MGWA-6

Lab Sample ID: 680-261520-2

Date Collected: 02/03/25 16:26

Matrix: Water

Date Received: 02/05/25 09:41

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	300.0-1993 R2.1		1	5 mL	5 mL	874884	02/07/25 17:39	BS	EET SAV
	Instrument ID: CICP									
Total Recoverable	Prep	3005A			25 mL	125 mL	874637	02/06/25 06:25	RR	EET SAV
Total Recoverable	Analysis	6020B		1			875841	02/14/25 12:05	BWR	EET SAV
	Instrument ID: ICPMSG									
Total/NA	Prep	7470A			50 mL	50 mL	875148	02/10/25 13:44	MG	EET SAV
Total/NA	Analysis	7470A		1			875328	02/11/25 12:30	BCB	EET SAV
	Instrument ID: QuickTrace3									
Total/NA	Analysis	2540C-2011		1	50 mL	200 mL	874640	02/06/25 06:37	PG	EET SAV
	Instrument ID: NOEQUIP									

Client Sample ID: MCI-MGWA-6A

Lab Sample ID: 680-261520-3

Date Collected: 02/04/25 09:50

Matrix: Water

Date Received: 02/05/25 09:41

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	300.0-1993 R2.1		1	5 mL	5 mL	874884	02/07/25 17:48	BS	EET SAV
	Instrument ID: CICP									
Total Recoverable	Prep	3005A			25 mL	125 mL	874637	02/06/25 06:25	RR	EET SAV
Total Recoverable	Analysis	6020B		1			875841	02/14/25 11:59	BWR	EET SAV
	Instrument ID: ICPMSG									
Total/NA	Prep	7470A			50 mL	50 mL	875318	02/11/25 12:48	MG	EET SAV
Total/NA	Analysis	7470A		1			875428	02/11/25 17:53	BCB	EET SAV
	Instrument ID: QuickTrace3									
Total/NA	Analysis	2540C-2011		1	50 mL	200 mL	874640	02/06/25 06:37	PG	EET SAV
	Instrument ID: NOEQUIP									

Lab Chronicle

Client: Southern Company
Project/Site: Plant McIntosh Ash Pond 1

Job ID: 680-261520-1

Client Sample ID: MCI-MGWA-10

Lab Sample ID: 680-261520-4

Date Collected: 02/04/25 09:38

Matrix: Water

Date Received: 02/05/25 09:41

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	300.0-1993 R2.1		1	5 mL	5 mL	874972	02/08/25 15:27	BS	EET SAV
	Instrument ID: CICP									
Total Recoverable	Prep	3005A			25 mL	125 mL	874637	02/06/25 06:25	RR	EET SAV
Total Recoverable	Analysis	6020B		1			875841	02/14/25 12:19	BWR	EET SAV
	Instrument ID: ICPMSG									
Total/NA	Prep	7470A			50 mL	50 mL	875318	02/11/25 12:48	MG	EET SAV
Total/NA	Analysis	7470A		1			875428	02/11/25 17:22	BCB	EET SAV
	Instrument ID: QuickTrace3									
Total/NA	Analysis	2540C-2011		1	200 mL	200 mL	874640	02/06/25 06:37	PG	EET SAV
	Instrument ID: NOEQUIP									

Client Sample ID: MCI-MGWA-11

Lab Sample ID: 680-261520-5

Date Collected: 02/04/25 10:49

Matrix: Water

Date Received: 02/05/25 09:41

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	300.0-1993 R2.1		1	5 mL	5 mL	874884	02/07/25 18:08	BS	EET SAV
	Instrument ID: CICP									
Total Recoverable	Prep	3005A			25 mL	125 mL	874637	02/06/25 06:25	RR	EET SAV
Total Recoverable	Analysis	6020B		1			875841	02/14/25 12:03	BWR	EET SAV
	Instrument ID: ICPMSG									
Total/NA	Prep	7470A			50 mL	50 mL	875318	02/11/25 12:48	MG	EET SAV
Total/NA	Analysis	7470A		1			875428	02/11/25 17:48	BCB	EET SAV
	Instrument ID: QuickTrace3									
Total/NA	Analysis	2540C-2011		1	200 mL	200 mL	874640	02/06/25 06:37	PG	EET SAV
	Instrument ID: NOEQUIP									

Client Sample ID: MCI-MGWC-3

Lab Sample ID: 680-261520-6

Date Collected: 02/04/25 11:36

Matrix: Water

Date Received: 02/05/25 09:41

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	300.0-1993 R2.1		5	5 mL	5 mL	874884	02/07/25 18:18	BS	EET SAV
	Instrument ID: CICP									
Total Recoverable	Prep	3005A			25 mL	125 mL	874637	02/06/25 06:25	RR	EET SAV
Total Recoverable	Analysis	6020B		1			875841	02/14/25 12:29	BWR	EET SAV
	Instrument ID: ICPMSG									
Total/NA	Prep	7470A			50 mL	50 mL	875318	02/11/25 12:48	MG	EET SAV
Total/NA	Analysis	7470A		1			875428	02/11/25 17:18	BCB	EET SAV
	Instrument ID: QuickTrace3									
Total/NA	Analysis	2540C-2011		1	50 mL	200 mL	874640	02/06/25 06:37	PG	EET SAV
	Instrument ID: NOEQUIP									

Lab Chronicle

Client: Southern Company
Project/Site: Plant McIntosh Ash Pond 1

Job ID: 680-261520-1

Client Sample ID: MCI-MGWC-1

Lab Sample ID: 680-261520-7

Date Collected: 02/04/25 12:22

Matrix: Water

Date Received: 02/05/25 09:41

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	300.0-1993 R2.1		5	5 mL	5 mL	874884	02/07/25 18:27	BS	EET SAV
	Instrument ID: CICP									
Total Recoverable	Prep	3005A			25 mL	125 mL	874637	02/06/25 06:25	RR	EET SAV
Total Recoverable	Analysis	6020B		1			875841	02/14/25 12:35	BWR	EET SAV
	Instrument ID: ICPMSG									
Total/NA	Prep	7470A			50 mL	50 mL	875148	02/10/25 13:44	MG	EET SAV
Total/NA	Analysis	7470A		1			875328	02/11/25 12:20	BCB	EET SAV
	Instrument ID: QuickTrace3									
Total/NA	Analysis	2540C-2011		1	50 mL	200 mL	874640	02/06/25 06:37	PG	EET SAV
	Instrument ID: NOEQUIP									

Client Sample ID: MCI-MGWC-8

Lab Sample ID: 680-261520-8

Date Collected: 02/04/25 14:24

Matrix: Water

Date Received: 02/05/25 09:41

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	300.0-1993 R2.1		10	5 mL	5 mL	874884	02/07/25 19:26	BS	EET SAV
	Instrument ID: CICP									
Total Recoverable	Prep	3005A			25 mL	125 mL	874637	02/06/25 06:25	RR	EET SAV
Total Recoverable	Analysis	6020B		1			875841	02/14/25 12:21	BWR	EET SAV
	Instrument ID: ICPMSG									
Total/NA	Prep	7470A			50 mL	50 mL	875318	02/11/25 12:48	MG	EET SAV
Total/NA	Analysis	7470A		1			875428	02/11/25 17:46	BCB	EET SAV
	Instrument ID: QuickTrace3									
Total/NA	Analysis	2540C-2011		1	50 mL	200 mL	874640	02/06/25 06:37	PG	EET SAV
	Instrument ID: NOEQUIP									

Client Sample ID: MCI-MGWC-12

Lab Sample ID: 680-261520-9

Date Collected: 02/04/25 14:30

Matrix: Water

Date Received: 02/05/25 09:41

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	300.0-1993 R2.1		1	5 mL	5 mL	874884	02/07/25 18:57	BS	EET SAV
	Instrument ID: CICP									
Total Recoverable	Prep	3005A			25 mL	125 mL	874637	02/06/25 06:25	RR	EET SAV
Total Recoverable	Analysis	6020B		1			875841	02/14/25 12:17	BWR	EET SAV
	Instrument ID: ICPMSG									
Total/NA	Prep	7470A			50 mL	50 mL	875318	02/11/25 12:48	MG	EET SAV
Total/NA	Analysis	7470A		1			875428	02/11/25 17:25	BCB	EET SAV
	Instrument ID: QuickTrace3									
Total/NA	Analysis	2540C-2011		1	200 mL	200 mL	874640	02/06/25 06:37	PG	EET SAV
	Instrument ID: NOEQUIP									

Client Sample ID: MCI-AP1-FD-01

Lab Sample ID: 680-261520-10

Date Collected: 02/04/25 00:00

Matrix: Water

Date Received: 02/05/25 09:41

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	300.0-1993 R2.1		5	5 mL	5 mL	874884	02/07/25 19:36	BS	EET SAV
	Instrument ID: CICP									
Total Recoverable	Prep	3005A			25 mL	125 mL	874637	02/06/25 06:25	RR	EET SAV
Total Recoverable	Analysis	6020B		1			875841	02/14/25 12:23	BWR	EET SAV
	Instrument ID: ICPMSG									
Total/NA	Prep	7470A			50 mL	50 mL	875318	02/11/25 12:48	MG	EET SAV
Total/NA	Analysis	7470A		1			875428	02/11/25 17:41	BCB	EET SAV
	Instrument ID: QuickTrace3									
Total/NA	Analysis	2540C-2011		1	50 mL	200 mL	874640	02/06/25 06:37	PG	EET SAV
	Instrument ID: NOEQUIP									

Client Sample ID: MCI-AP1-EB-03

Lab Sample ID: 680-261520-11

Date Collected: 02/04/25 12:55

Matrix: Water

Date Received: 02/05/25 09:41

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	300.0-1993 R2.1		1	5 mL	5 mL	874884	02/07/25 19:46	BS	EET SAV
	Instrument ID: CICP									
Total Recoverable	Prep	3005A			25 mL	125 mL	874638	02/06/25 06:25	RR	EET SAV
Total Recoverable	Analysis	6020B		1			874971	02/07/25 15:40	BWR	EET SAV
	Instrument ID: ICPMSC									
Total Recoverable	Prep	3005A			25 mL	125 mL	874638	02/06/25 06:25	RR	EET SAV
Total Recoverable	Analysis	6020B		1			874819	02/06/25 18:14	BWR	EET SAV
	Instrument ID: ICPMSD									
Total/NA	Prep	7470A			50 mL	50 mL	875499	02/12/25 12:58	MG	EET SAV
Total/NA	Analysis	7470A		1			875621	02/12/25 18:58	BJB	EET SAV
	Instrument ID: QuickTrace3									
Total/NA	Analysis	2540C-2011		1	200 mL	200 mL	874640	02/06/25 06:37	PG	EET SAV
	Instrument ID: NOEQUIP									

Client Sample ID: MCI-AP1-FB-01

Lab Sample ID: 680-261520-12

Date Collected: 02/04/25 14:10

Matrix: Water

Date Received: 02/05/25 09:41

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	300.0-1993 R2.1		1	5 mL	5 mL	874884	02/07/25 19:55	BS	EET SAV
	Instrument ID: CICP									
Total Recoverable	Prep	3005A			25 mL	125 mL	874637	02/06/25 06:25	RR	EET SAV
Total Recoverable	Analysis	6020B		1			875841	02/14/25 12:41	BWR	EET SAV
	Instrument ID: ICPMSG									
Total/NA	Prep	7470A			50 mL	50 mL	875318	02/11/25 12:48	MG	EET SAV
Total/NA	Analysis	7470A		1			875428	02/11/25 17:50	BCB	EET SAV
	Instrument ID: QuickTrace3									
Total/NA	Analysis	2540C-2011		1	200 mL	200 mL	874640	02/06/25 06:37	PG	EET SAV
	Instrument ID: NOEQUIP									

Lab Chronicle

Client: Southern Company
Project/Site: Plant McIntosh Ash Pond 1

Job ID: 680-261520-1

Client Sample ID: MCI-MGWC-7

Lab Sample ID: 680-261520-13

Date Collected: 02/04/25 15:32

Matrix: Water

Date Received: 02/05/25 09:41

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	300.0-1993 R2.1		10	5 mL	5 mL	874884	02/07/25 20:05	BS	EET SAV
	Instrument ID: CICP									
Total Recoverable	Prep	3005A			25 mL	125 mL	874637	02/06/25 06:25	RR	EET SAV
Total Recoverable	Analysis	6020B		1			875841	02/14/25 12:25	BWR	EET SAV
	Instrument ID: ICPMSG									
Total/NA	Prep	7470A			50 mL	50 mL	875318	02/11/25 12:48	MG	EET SAV
Total/NA	Analysis	7470A		1			875428	02/11/25 17:55	BCB	EET SAV
	Instrument ID: QuickTrace3									
Total/NA	Analysis	2540C-2011		1	50 mL	200 mL	874640	02/06/25 06:37	PG	EET SAV
	Instrument ID: NOEQUIP									

Client Sample ID: MCI-MGWC-20

Lab Sample ID: 680-261520-14

Date Collected: 02/04/25 16:15

Matrix: Water

Date Received: 02/05/25 09:41

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	300.0-1993 R2.1		5	5 mL	5 mL	874884	02/07/25 20:15	BS	EET SAV
	Instrument ID: CICP									
Total Recoverable	Prep	3005A			25 mL	125 mL	874637	02/06/25 06:25	RR	EET SAV
Total Recoverable	Analysis	6020B		1			875841	02/14/25 12:27	BWR	EET SAV
	Instrument ID: ICPMSG									
Total/NA	Prep	7470A			50 mL	50 mL	875318	02/11/25 12:48	MG	EET SAV
Total/NA	Analysis	7470A		1			875428	02/11/25 17:20	BCB	EET SAV
	Instrument ID: QuickTrace3									
Total/NA	Analysis	2540C-2011		1	50 mL	200 mL	875047	02/10/25 08:57	PG	EET SAV
	Instrument ID: NOEQUIP									

Client Sample ID: MCI-AP1-EB-04

Lab Sample ID: 680-261520-15

Date Collected: 02/04/25 15:50

Matrix: Water

Date Received: 02/05/25 09:41

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	300.0-1993 R2.1		1	5 mL	5 mL	874884	02/07/25 20:25	BS	EET SAV
	Instrument ID: CICP									
Total Recoverable	Prep	3005A			25 mL	125 mL	874638	02/06/25 06:25	RR	EET SAV
Total Recoverable	Analysis	6020B		1			874971	02/07/25 15:16	BWR	EET SAV
	Instrument ID: ICPMSC									
Total Recoverable	Prep	3005A			25 mL	125 mL	874638	02/06/25 06:25	RR	EET SAV
Total Recoverable	Analysis	6020B		1			874819	02/06/25 17:40	BWR	EET SAV
	Instrument ID: ICPMSD									
Total/NA	Prep	7470A			50 mL	50 mL	875318	02/11/25 12:48	MG	EET SAV
Total/NA	Analysis	7470A		1			875428	02/11/25 17:27	BCB	EET SAV
	Instrument ID: QuickTrace3									
Total/NA	Analysis	2540C-2011		1	200 mL	200 mL	875047	02/10/25 08:57	PG	EET SAV
	Instrument ID: NOEQUIP									

Lab Chronicle

Client: Southern Company
Job ID: 680-261520-1
Project/Site: Plant McIntosh Ash Pond 1

Client Sample ID: MCI-AP1-FB-02
Lab Sample ID: 680-261520-16
Date Collected: 02/04/25 16:15
Matrix: Water
Date Received: 02/05/25 09:41

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	300.0-1993 R2.1		1	5 mL	5 mL	874884	02/07/25 20:34	BS	EET SAV
	Instrument ID: CICP									
Total Recoverable	Prep	3005A			25 mL	125 mL	874638	02/06/25 06:25	RR	EET SAV
Total Recoverable	Analysis	6020B		1			874971	02/07/25 15:36	BWR	EET SAV
	Instrument ID: ICPMSC									
Total Recoverable	Prep	3005A			25 mL	125 mL	874638	02/06/25 06:25	RR	EET SAV
Total Recoverable	Analysis	6020B		1			874819	02/06/25 18:06	BWR	EET SAV
	Instrument ID: ICPMSD									
Total/NA	Prep	7470A			50 mL	50 mL	875318	02/11/25 12:48	MG	EET SAV
Total/NA	Analysis	7470A		1			875428	02/11/25 17:43	BCB	EET SAV
	Instrument ID: QuickTrace3									
Total/NA	Analysis	2540C-2011		1	200 mL	200 mL	875047	02/10/25 08:57	PG	EET SAV
	Instrument ID: NOEQUIP									

Laboratory References:

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

Accreditation/Certification Summary

Client: Southern Company
Job ID: 680-261520-1
Project/Site: Plant McIntosh Ash Pond 1

Laboratory: Eurofins Savannah

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

Authority	Program	Identification Number	Expiration Date
Florida	NELAP	E87052	06-30-25
Georgia	State	E87052	06-30-25

Method Summary

Client: Southern Company
Project/Site: Plant McIntosh Ash Pond 1

Job ID: 680-261520-1

Method	Method Description	Protocol	Laboratory
300.0-1993 R2.1	Anions, Ion Chromatography	MCAWW	EET SAV
6020B	Metals (ICP/MS)	SW846	EET SAV
7470A	Mercury (CVAA)	SW846	EET SAV
2540C-2011	Total Dissolved Solids (Dried at 180 °C)	SM	EET SAV
3005A	Preparation, Total Recoverable or Dissolved Metals	SW846	EET SAV
7470A	Preparation, Mercury	SW846	EET SAV

Protocol References:

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

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

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

Laboratory References:

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

Eurofins TestAmerica, Savannah
5102 LaRoche Avenue
Savannah GA 31404
Phone (912) 354-7858 Fax (912) 352-0165

Chain of Custody Record

eurofins | Environment Testing America

Client Information	Sampler: T Gode/J. May ACC	Lab PM: Fuller, David	Carrier Tracking No(s)	COC No
Client Contact: SCS Contacts	Phone: 770-594-5998	E-Mail: david.fuller@et.eurofinsus.com		Page: 1 of 2
Company: GA Power				Job #:
Address: 241 Ralph McGill Blvd SE	Due Date Requested			
City: Atlanta	TAT Requested (days)			
State Zip: GA, 30308				
Phone: 404-506-7116(Tel)	Lab Project #: 68027747			
Email: SCS Contacts / ACC Contacts	PO #: GPC82130-0002			
Project Name: Plant McIntosh - Ash Pond 1	Project #:			
Site: Georgia	SSOW#:			

Analysis Requested

680-261520 Chain of Custody

Preservation Codes
A - HCL; B - NaOH; M - Hexane; N - None; O - AsNaO2; P - Na2O4S; Q - Na2SO3; R - Na2S2O3; S - H2SO4; T - TSP Dodecahydrate; U - Acetone; V - MCAA; W - pH 4-5; Z - other (specify)

Other:

Task_Code: MCI-CCR-ASSMT-2025S1

Special Instructions/Note: Full APP III + APP IV

Sample Identification	Sample Date (mm/dd/yy)	Sample Time (hhmm)	Sample Type (C=comp, G=grab)	Matrix (WG=ground water WS=surface water WQ=quality control)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	App. III Metals (B, Ca)	Cl, F, SO4, TDS (EPA 300.0 & SM 2540C)	App IV Metals (Sb, As, Ba, Be, Cd, Cr, Co, Pb, Li, Hg, Mo, Se, Tl) (EPA 6020/7470)	Radium 226 & 228 (SW-846 9315/9320)	Total Number of con	
			Preservation Code.				D	I	D	D		
MCI- MGWA-5	02/03/25	1632	G	WG	N	N	✓	✓	✓	✓	TG 5	5
MCI- MGWA-6	02/03/25	1626	G	WG	N	N	✓	✓	✓	✓	TG 5	5
MCI- MGWA-6A	02/04/25	0950	G	WG	N	N	✓	✓	✓	✓	5	
MCI- MGWA-10	02/04/25	0934	G	WG	N	N	✓	✓	✓	✓	5	
MCI- MGWA-11	02/04/25	1049	G	WG	N	N	✓	✓	✓	✓	5	
MCI- MGWC-3	02/04/25	1136	G	WG	N	N	✓	✓	✓	✓	5	
MCI- MGWC-1	02/04/25	1222	G	WG	N	N	✓	✓	✓	✓	5	
MCI- MGWC-8	02/04/25	1424	G	WG	N	N	✓	✓	✓	✓	5	
MCI- MGWC-12	02/04/25	1430	G	WG	N	N	✓	✓	✓	✓	5	
MCI- AP1-FD-01	02/04/25	—	G	WG	N	N	✓	✓	✓	✓	5	
MCI- AP1-EB-03	02/04/25	1255	G	WQ	N	N	✓	✓	✓	✓	5	

Possible Hazard Identification
☐ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown ☐ Radiological

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
☐ 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	Company	Received by	Date/Time	Company
1	Taylor Godd	2-4-25/2011	ACC		2/4/25 2011	ACC
2		2/5/25 0941	ACC		2/5/25 941	
3		Date/Time	Company		Date/Time:	Company

Custody Seals Intact: ☐ Yes ☐ No | Custody Seal No

Cooler Temperature(s) °C and Other Remarks: 2.1/2.1 1.8/1.8 4.4/4.4 2.4/2.4 3.2/3.2

Eurofins TestAmerica, Savannah
5102 LaRoche Avenue
Savannah GA 31404
Phone (912) 354-7858 Fax (912) 352-0165

Chain of Custody Record

eurofins | Environment Testing America

Client Information	Sampler: T. Goble / J. May ACC	Lab PM: Fuller, David	Carrier Tracking No(s)	COC No
Client Contact: SCS Contacts	Phone: 770-594-5998	E-Mail: david.fuller@et.eurofinsus.com		Page: 2 of 2
Company: GA Power				Job #:
Address: 241 Ralph McGill Blvd SE	Due Date Requested			
City: Atlanta	TAT Requested (days)			
State, Zip: GA, 30308				
Phone: 404-506-7116(Tel)	Lab Project #: 68027747			
Email: SCS Contacts / ACC Contacts	PO #: GPC82130-0002			
Project Name: Plant McIntosh - Ash Pond 1	Project #:			
Site: Georgia	SSOW#:			

Analysis Requested

Preservation Codes

A - HCL	M - Hexane
B - NaOH	N - None
C - Zn Acetate	O - AsNaO2
D - Nitric Acid	P - Na2O4S
E - NaHSO4	Q - Na2SO3
F - MeOH	R - Na2S2O3
G - Amchlor	S - H2SO4
H - Ascorbic Acid	T TSP Dodecahydrate
I - Ice	U - Acetone
J - DI Water	V - MCAA
K - EDTA	W - pH 4-5
L - EDA	Z - other (specify)

Other:

Task_Code: MCI-CCR-ASSMT-2025S1

Special Instructions/Note. Full APP III + APP IV

Sample Identification	Sample Date (mm/dd/yy)	Sample Time (hhmm)	Sample Type (C=comp, G=grab)	Matrix (WG=ground water WS=surface water WQ=quality control)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	App III Metals (B, Ca)	Cl, F, SO4, TDS (EPA 300.0 & SM 2540C)		App. IV Metals (Sb, As, Ba, Be, Cd, Cr, Co, Pb, Li, Hg, Mo, Se, Tl) (EPA 6020/7470)		Radium 226 & 228 (SW-846 9315/9320)								Total Number of containers
			Preservation Code:				D	I		D		D								
MCI- API-FB-01	02/04/25	1410	G	~~WG~~ WQ	N	N	✓	✓		✓		✓								5 5
MCI- MGWC-7	02/04/25	1532	G	WG	N	N	✓	✓		✓		✓								5
MCI- MGWC-20	02/04/25	1615	G	WG	N	N	✓	✓		✓		✓								5
MCI- API-EB-04	02/04/25	1550	G	WQ	N	N	✓	✓		✓		✓								5
MCI- API-FB-02	02/04/25	1615	G	WQ	N	N	✓	✓		✓		✓								5
MCI-			G			N														
MCI-			G			N														
MCI-			G			N														
MCI-			G			N														
MCI-			G			N														
MCI-			G			N														

Possible Hazard Identification
☐ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown ☐ Radiological

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
☐ 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: Taylor Goble	Date/Time: 2-4-25/2011	Company: ACC	Received by:	Date/Time: 2/4/25 2011	Company: ACC
Relinquished by:	Date/Time: 2/5/25 0941	Company: ACC	Received by:	Date/Time: 2/5/25 941	Company:
Relinquished by:	Date/Time.	Company	Received by:	Date/Time	Company

Custody Seals Intact: ☐ Yes ☐ No | Custody Seal No

Cooler Temperature(s) °C and Other Remarks: 2.1/2.1 4/4/4 2.4/2.4 1.8/1.8 3.2/3.2

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

Chain of Custody Record

eurofins | Environment Testing

Client Information (Sub Contract Lab)	Sampler: N/A	Lab PM: Fuller, David	Carrier Tracking No(s): N/A	COC No: 680-793657.1
Client Contact: Shipping/Receiving	Phone: N/A	E-Mail: David.Fuller@et.eurofinsus.com	State of Origin: Georgia	Page: Page 1 of 2
Company: TestAmerica Laboratories, Inc.		Accreditations Required (See note): NELAP - Florida; State - Georgia		Job #: 680-261520-1
Address: 13715 Rider Trail North, ,	Due Date Requested: 2/17/2025			
City: Earth City	TAT Requested (days): N/A			
State, Zip: MO, 63045				
Phone: 314-298-8566(Tel) 314-298-8757(Fax)	PO #: N/A			
Email: N/A	WO #: N/A			
Project Name: Plant McIntosh Ash Pond 1	Project #: 68027747			
Site: N/A	SSOW#: N/A			

Analysis Requested

Preservation Codes: -

Other: N/A

Sample Identification - Client ID (Lab ID)	Sample Date	Sample Time	Sample Type (C=comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	9315_Ra226/PrecSep_21 Radium-226	9320_Ra228/PrecSep_0 Radium-228	Ra226Ra228_GFPC/ Combined Radium-226 and Radium-228	Total Number of containers	Special Instructions/Note:
			Preservation Code:								
MCI-MGWA-5 (680-261520-1)	2/3/25	16:32 Eastern	G	Water			X	X	X	2	
MCI-MGWA-6 (680-261520-2)	2/3/25	16:26 Eastern	G	Water			X	X	X	2	
MCI-MGWA-6A (680-261520-3)	2/4/25	09:50 Eastern	G	Water			X	X	X	2	
MCI-MGWA-10 (680-261520-4)	2/4/25	09:38 Eastern	G	Water			X	X	X	2	
MCI-MGWA-11 (680-261520-5)	2/4/25	10:49 Eastern	G	Water			X	X	X	2	
MCI-MGWC-3 (680-261520-6)	2/4/25	11:36 Eastern	G	Water			X	X	X	2	
MCI-MGWC-1 (680-261520-7)	2/4/25	12:22 Eastern	G	Water			X	X	X	2	
MCI-MGWC-8 (680-261520-8)	2/4/25	14:24 Eastern	G	Water			X	X	X	2	
MCI-MGWC-12 (680-261520-9)	2/4/25	14:30 Eastern	G	Water			X	X	X	2	

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

Possible Hazard Identification *Unconfirmed*	***Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)*** ☐ *Return To Client* ☐ *Disposal By Lab* ☐ *Archive For* _____ *Months*
Deliverable Requested: I, II, III, IV, Other (specify) Primary Deliverable Rank: 2	Special Instructions/QC Requirements:

Empty Kit Relinquished by:	Date:	Time:	Method of Shipment:

	Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
1		2/6/25 1500		M. Pinette	FEB 07 2025 0820	
2	Relinquished by:	Date/Time:	Company	Received by: Meadow Pinette	Date/Time:	Company
3	Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company

Custody Seals Intact: Δ Yes Δ No	Custody Seal No.:	Cooler Temperature(s) °C and Other Remarks:

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

Chain of Custody Record

eurofins | Environment Testing

Client Information (Sub Contract Lab)	Sampler: N/A	Lab PM: Fuller, David	Carrier Tracking No(s): N/A	COC No: 680-793657.2
Client Contact: Shipping/Receiving	Phone: N/A	E-Mail: David.Fuller@et.eurofinsus.com	State of Origin: Georgia	Page: Page 2 of 2
Company: TestAmerica Laboratories, Inc.		Accreditations Required (See note): NELAP - Florida; State - Georgia		Job #: 680-261520-1
Address: 13715 Rider Trail North, .	Due Date Requested: 2/17/2025			
City: Earth City	TAT Requested (days): N/A			
State, Zip: MO, 63045				
Phone: 314-298-8566(Tel) 314-298-8757(Fax)	PO #: N/A			
Email: N/A	WO #: N/A			
Project Name: Plant McIntosh Ash Pond 1	Project #: 68027747			
Site: N/A	SSOW#: N/A			

Analysis Requested

Preservation Codes: -

Other: N/A

Sample Identification - Client ID (Lab ID)	Sample Date	Sample Time	Sample Type (C=comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	9315_Ra226/PrecSep_21 Radium-226	9320_Ra228/PrecSep_0 Radium-228	Ra226Ra228_GFPC/ Combined Radium-226 and Radium-228	Total Number of containers	Special Instructions/Note:
			Preservation Code:								
MCI-AP1-FD-01 (680-261520-10)	2/4/25	Eastern	G	Water			X	X	X	2	
MCI-AP1-EB-03 (680-261520-11)	2/4/25	12:55 Eastern	G	Water			X	X	X	2	
MCI-AP1-FB-01 (680-261520-12)	2/4/25	14:10 Eastern	G	Water			X	X	X	2	
MCI-MGWC-7 (680-261520-13)	2/4/25	15:32 Eastern	G	Water			X	X	X	2	
MCI-MGWC-20 (680-261520-14)	2/4/25	16:15 Eastern	G	Water			X	X	X	2	
MCI-AP1-EB-04 (680-261520-15)	2/4/25	15:50 Eastern	G	Water			X	X	X	2	
MCI-AP1-FB-02 (680-261520-16)	2/4/25	16:15 Eastern	G	Water			X	X	X	2	

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

Possible Hazard Identification	***Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)***
Unconfirmed	☐ *Return To Client* ☐ *Disposal By Lab* ☐ *Archive For* _____ *Months*
Deliverable Requested: I, II, III, IV, Other (specify) Primary Deliverable Rank: 2	Special Instructions/QC Requirements:

Empty Kit Relinquished by:	Date:	Time:	Method of Shipment:

	Date/Time	Company	Received by	Date/Time	Company
Relinquished by:	2/6/25 1500		M. Pinette	FEB 07 2025 0820	
Relinquished by:	Date/Time:	Company	Meadow Pinette	Date/Time:	Company
Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company

Custody Seals Intact? Δ Yes Δ No	Custody Seal No.:	Cooler Temperature(s) °C and Other Remarks:

Login Sample Receipt Checklist

Client: Southern Company

Job Number: 680-261520-1

Login Number: 261520

List Source: Eurofins Savannah

List Number: 1

Creator: Munro, Caroline

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

This receipt checklist is generated for all samples received in this Login. It may not be applicable to all Jobs associated with this Login.

eurofins | Environment Testing

ANALYTICAL REPORT

PREPARED FOR

Attn: Kevin Stephenson
Southern Company
241 Ralph McGill Blvd SE
B10185
Atlanta, Georgia 30308

Generated 3/5/2025 4:23:35 PM

JOB DESCRIPTION

Plant McIntosh Ash Pond 1

JOB NUMBER

680-261520-3

Eurofins Savannah
5102 LaRoche Avenue
Savannah GA 31404

See page two for job notes and contact information.

my EOL

Job Notes

This report may not be reproduced except in full, and with written approval from the laboratory. The results relate only to the samples tested. For questions please contact the Project Manager at the e-mail address or telephone number listed on this page.

The test results in this report relate only to the samples as received by the laboratory and will meet all requirements of the methodology, with any exceptions noted. This report shall not be reproduced except in full, without the express written approval of the laboratory. All questions should be directed to the Eurofins Environment Testing Southeast, LLC Project Manager.

Authorization



Generated
3/5/2025 4:23:35 PM

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

Definitions/Glossary

Client: Southern Company
Project/Site: Plant McIntosh Ash Pond 1

Job ID: 680-261520-3

Qualifiers

Rad

Qualifier	Qualifier Description
F	Duplicate RPD exceeds the control limit
U	Result is less than the sample detection limit.

Glossary

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

Sample Summary

Client: Southern Company
Job ID: 680-261520-3
Project/Site: Plant McIntosh Ash Pond 1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
680-261520-1	MCI-MGWA-5	Water	02/03/25 16:32	02/05/25 09:41
680-261520-2	MCI-MGWA-6	Water	02/03/25 16:26	02/05/25 09:41
680-261520-3	MCI-MGWA-6A	Water	02/04/25 09:50	02/05/25 09:41
680-261520-4	MCI-MGWA-10	Water	02/04/25 09:38	02/05/25 09:41
680-261520-5	MCI-MGWA-11	Water	02/04/25 10:49	02/05/25 09:41
680-261520-6	MCI-MGWC-3	Water	02/04/25 11:36	02/05/25 09:41
680-261520-7	MCI-MGWC-1	Water	02/04/25 12:22	02/05/25 09:41
680-261520-8	MCI-MGWC-8	Water	02/04/25 14:24	02/05/25 09:41
680-261520-9	MCI-MGWC-12	Water	02/04/25 14:30	02/05/25 09:41
680-261520-10	MCI-AP1-FD-01	Water	02/04/25 00:00	02/05/25 09:41
680-261520-11	MCI-AP1-EB-03	Water	02/04/25 12:55	02/05/25 09:41
680-261520-12	MCI-AP1-FB-01	Water	02/04/25 14:10	02/05/25 09:41
680-261520-13	MCI-MGWC-7	Water	02/04/25 15:32	02/05/25 09:41
680-261520-14	MCI-MGWC-20	Water	02/04/25 16:15	02/05/25 09:41
680-261520-15	MCI-AP1-EB-04	Water	02/04/25 15:50	02/05/25 09:41
680-261520-16	MCI-AP1-FB-02	Water	02/04/25 16:15	02/05/25 09:41

Job ID: 680-261520-3 — Eurofins Savannah

Job Narrative
680-261520-3

Analytical test results meet all requirements of the associated regulatory program listed on the Accreditation/Certification Summary Page unless otherwise noted under the individual analysis. Data qualifiers and/or narrative comments are included to explain any exceptions, if applicable.

- Matrix QC may not be reported if insufficient sample is provided or site-specific QC samples were not submitted. In these situations, to demonstrate precision and accuracy at a batch level, a LCS/LCSD may be performed, unless otherwise specified in the method.
- Surrogate and/or isotope dilution analyte recoveries (if applicable) which are outside of the QC window are confirmed unless attributed to a dilution or otherwise noted in the narrative.

Receipt
The samples were received on 2/5/2025 9:41 AM. Unless otherwise noted below, the samples arrived in good condition, and, where required, properly preserved and on ice. The temperatures of the 5 coolers at receipt time were 1.8°C, 2.1°C, 2.4°C, 3.2°C and 4.4°C.

Gas Flow Proportional Counter
Method 9320_Ra228: Radium-228 batch 702253
The sample duplicate (DUP) precision for Radium-228 was outside the control limits. However the original sample and DUP activity is below the RL making the measurement of precision less critical. The lab does not believe this discrepancy to have a negative impact on the data being reported. (680-261520-B-1-B DU)

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

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

Client Sample ID: MCI-MGWA-5

Lab Sample ID: 680-261520-1

Date Collected: 02/03/25 16:32

Matrix: Water

Date Received: 02/05/25 09:41

Method: SW846 9315 - Radium-226 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	-0.0384	U	0.0533	0.0534	1.00	0.139	pCi/L	02/10/25 08:54	03/04/25 09:41	1

Carrier	*%Yield*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Ba Carrier	*91.8*		*30 - 110*	*02/10/25 08:54*	*03/04/25 09:41*	*1*

Method: SW846 9320 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	0.0738	U	0.276	0.277	1.00	0.506	pCi/L	02/10/25 08:56	02/28/25 12:07	1

Carrier	*%Yield*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Ba Carrier	*91.8*		*30 - 110*	*02/10/25 08:56*	*02/28/25 12:07*	*1*
Y Carrier	*76.3*		*30 - 110*	*02/10/25 08:56*	*02/28/25 12:07*	*1*

Method: TAL-STL Ra226_Ra228 - Combined Radium-226 and Radium-228

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Combined Radium 226 + 228	0.0354	U	0.281	0.282	5.00	0.506	pCi/L		03/05/25 08:45	1

Client Sample ID: MCI-MGWA-6

Lab Sample ID: 680-261520-2

Date Collected: 02/03/25 16:26

Matrix: Water

Date Received: 02/05/25 09:41

Method: SW846 9315 - Radium-226 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	**0.318**		0.126	0.130	1.00	0.128	pCi/L	02/10/25 08:54	03/04/25 10:16	1

Carrier	*%Yield*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Ba Carrier	*94.1*		*30 - 110*	*02/10/25 08:54*	*03/04/25 10:16*	*1*

Method: SW846 9320 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	**0.640**		0.411	0.416	1.00	0.613	pCi/L	02/10/25 08:56	02/28/25 12:07	1

Carrier	*%Yield*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Ba Carrier	*94.1*		*30 - 110*	*02/10/25 08:56*	*02/28/25 12:07*	*1*
Y Carrier	*75.9*		*30 - 110*	*02/10/25 08:56*	*02/28/25 12:07*	*1*

Client: Southern Company
Project/Site: Plant McIntosh Ash Pond 1

Job ID: 680-261520-3

Client Sample ID: MCI-MGWA-6

Lab Sample ID: 680-261520-2

Date Collected: 02/03/25 16:26
Matrix: Water
Date Received: 02/05/25 09:41

Method: TAL-STL Ra226_Ra228 - Combined Radium-226 and Radium-228

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Combined Radium 226 + 228	0.957		0.430	0.436	5.00	0.613	pCi/L		03/05/25 08:45	1

Client Sample ID: MCI-MGWA-6A

Lab Sample ID: 680-261520-3

Date Collected: 02/04/25 09:50
Matrix: Water
Date Received: 02/05/25 09:41

Method: SW846 9315 - Radium-226 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	0.451		0.154	0.159	1.00	0.146	pCi/L	02/10/25 08:54	03/04/25 09:51	1

Carrier	*%Yield*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Ba Carrier	*88.5*		*30 - 110*	*02/10/25 08:54*	*03/04/25 09:51*	*1*

Method: SW846 9320 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	0.907		0.494	0.501	1.00	0.710	pCi/L	02/10/25 08:56	02/28/25 12:08	1

Carrier	*%Yield*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Ba Carrier	*88.5*		*30 - 110*	*02/10/25 08:56*	*02/28/25 12:08*	*1*
Y Carrier	*73.3*		*30 - 110*	*02/10/25 08:56*	*02/28/25 12:08*	*1*

Method: TAL-STL Ra226_Ra228 - Combined Radium-226 and Radium-228

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Combined Radium 226 + 228	1.36		0.517	0.526	5.00	0.710	pCi/L		03/05/25 08:45	1

Client Sample ID: MCI-MGWA-10

Lab Sample ID: 680-261520-4

Date Collected: 02/04/25 09:38
Matrix: Water
Date Received: 02/05/25 09:41

Method: SW846 9315 - Radium-226 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	0.218		0.115	0.117	1.00	0.142	pCi/L	02/10/25 08:54	03/04/25 09:51	1

Carrier	*%Yield*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Ba Carrier	*93.9*		*30 - 110*	*02/10/25 08:54*	*03/04/25 09:51*	*1*

Client Sample ID: MCI-MGWA-10

Lab Sample ID: 680-261520-4

Date Collected: 02/04/25 09:38

Matrix: Water

Date Received: 02/05/25 09:41

Method: SW846 9320 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	0.687		0.400	0.405	1.00	0.579	pCi/L	02/10/25 08:56	02/28/25 12:08	1

Carrier	*%Yield*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Ba Carrier	*93.9*		*30 - 110*	*02/10/25 08:56*	*02/28/25 12:08*	*1*
Y Carrier	*77.0*		*30 - 110*	*02/10/25 08:56*	*02/28/25 12:08*	*1*

Method: TAL-STL Ra226_Ra228 - Combined Radium-226 and Radium-228

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Combined Radium 226 + 228	0.905		0.416	0.422	5.00	0.579	pCi/L		03/05/25 08:45	1

Client Sample ID: MCI-MGWA-11

Lab Sample ID: 680-261520-5

Date Collected: 02/04/25 10:49

Matrix: Water

Date Received: 02/05/25 09:41

Method: SW846 9315 - Radium-226 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	0.196		0.124	0.125	1.00	0.171	pCi/L	02/10/25 08:54	03/04/25 09:51	1

Carrier	*%Yield*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Ba Carrier	*91.1*		*30 - 110*	*02/10/25 08:54*	*03/04/25 09:51*	*1*

Method: SW846 9320 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	0.536	U	0.407	0.410	1.00	0.623	pCi/L	02/10/25 08:56	02/28/25 12:08	1

Carrier	*%Yield*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Ba Carrier	*91.1*		*30 - 110*	*02/10/25 08:56*	*02/28/25 12:08*	*1*
Y Carrier	*72.1*		*30 - 110*	*02/10/25 08:56*	*02/28/25 12:08*	*1*

Method: TAL-STL Ra226_Ra228 - Combined Radium-226 and Radium-228

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Combined Radium 226 + 228	0.732		0.425	0.429	5.00	0.623	pCi/L		03/05/25 08:45	1

Client Sample ID: MCI-MGWC-3

Lab Sample ID: 680-261520-6

Date Collected: 02/04/25 11:36

Matrix: Water

Date Received: 02/05/25 09:41

Method: SW846 9315 - Radium-226 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	0.654		0.180	0.189	1.00	0.157	pCi/L	02/10/25 08:54	03/04/25 09:51	1

Carrier	*%Yield*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Ba Carrier	*93.1*		*30 - 110*	*02/10/25 08:54*	*03/04/25 09:51*	*1*

Method: SW846 9320 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	0.971		0.461	0.470	1.00	0.632	pCi/L	02/10/25 08:56	02/28/25 12:08	1

Carrier	*%Yield*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Ba Carrier	*93.1*		*30 - 110*	*02/10/25 08:56*	*02/28/25 12:08*	*1*
Y Carrier	*73.3*		*30 - 110*	*02/10/25 08:56*	*02/28/25 12:08*	*1*

Method: TAL-STL Ra226_Ra228 - Combined Radium-226 and Radium-228

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Combined Radium 226 + 228	1.63		0.495	0.507	5.00	0.632	pCi/L		03/05/25 08:45	1

Client Sample ID: MCI-MGWC-1

Lab Sample ID: 680-261520-7

Date Collected: 02/04/25 12:22

Matrix: Water

Date Received: 02/05/25 09:41

Method: SW846 9315 - Radium-226 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	1.49		0.271	0.302	1.00	0.177	pCi/L	02/10/25 08:54	03/04/25 09:51	1

Carrier	*%Yield*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Ba Carrier	*83.2*		*30 - 110*	*02/10/25 08:54*	*03/04/25 09:51*	*1*

Method: SW846 9320 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	1.01		0.502	0.510	1.00	0.695	pCi/L	02/10/25 08:56	02/28/25 12:08	1

Carrier	*%Yield*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Ba Carrier	*83.2*		*30 - 110*	*02/10/25 08:56*	*02/28/25 12:08*	*1*
Y Carrier	*71.8*		*30 - 110*	*02/10/25 08:56*	*02/28/25 12:08*	*1*

Client Sample ID: MCI-MGWC-1

Lab Sample ID: 680-261520-7

Date Collected: 02/04/25 12:22
Matrix: Water
Date Received: 02/05/25 09:41

Method: TAL-STL Ra226_Ra228 - Combined Radium-226 and Radium-228

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Combined Radium 226 + 228	2.50		0.570	0.593	5.00	0.695	pCi/L		03/05/25 08:45	1

Client Sample ID: MCI-MGWC-8

Lab Sample ID: 680-261520-8

Date Collected: 02/04/25 14:24
Matrix: Water
Date Received: 02/05/25 09:41

Method: SW846 9315 - Radium-226 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	0.355		0.130	0.134	1.00	0.125	pCi/L	02/10/25 08:54	03/04/25 09:51	1

Carrier	*%Yield*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Ba Carrier	*98.5*		*30 - 110*	*02/10/25 08:54*	*03/04/25 09:51*	*1*

Method: SW846 9320 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	1.10		0.424	0.436	1.00	0.521	pCi/L	02/10/25 08:56	02/28/25 12:08	1

Carrier	*%Yield*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Ba Carrier	*98.5*		*30 - 110*	*02/10/25 08:56*	*02/28/25 12:08*	*1*
Y Carrier	*72.9*		*30 - 110*	*02/10/25 08:56*	*02/28/25 12:08*	*1*

Method: TAL-STL Ra226_Ra228 - Combined Radium-226 and Radium-228

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Combined Radium 226 + 228	1.46		0.443	0.456	5.00	0.521	pCi/L		03/05/25 08:45	1

Client Sample ID: MCI-MGWC-12

Lab Sample ID: 680-261520-9

Date Collected: 02/04/25 14:30
Matrix: Water
Date Received: 02/05/25 09:41

Method: SW846 9315 - Radium-226 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	0.119	U	0.0973	0.0979	1.00	0.139	pCi/L	02/10/25 08:54	03/04/25 09:51	1

Carrier	*%Yield*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Ba Carrier	*81.1*		*30 - 110*	*02/10/25 08:54*	*03/04/25 09:51*	*1*

Client Sample ID: MCI-MGWC-12

Lab Sample ID: 680-261520-9

Date Collected: 02/04/25 14:30

Matrix: Water

Date Received: 02/05/25 09:41

Method: SW846 9320 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	-0.130	U	0.292	0.292	1.00	0.604	pCi/L	02/10/25 08:56	02/28/25 12:08	1

Carrier	*%Yield*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Ba Carrier	*81.1*		*30 - 110*	*02/10/25 08:56*	*02/28/25 12:08*	*1*
Y Carrier	*74.0*		*30 - 110*	*02/10/25 08:56*	*02/28/25 12:08*	*1*

Method: TAL-STL Ra226_Ra228 - Combined Radium-226 and Radium-228

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Combined Radium 226 + 228	-0.0104	U	0.308	0.308	5.00	0.604	pCi/L		03/05/25 08:45	1

Client Sample ID: MCI-AP1-FD-01

Lab Sample ID: 680-261520-10

Date Collected: 02/04/25 00:00

Matrix: Water

Date Received: 02/05/25 09:41

Method: SW846 9315 - Radium-226 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	**1.13**		0.226	0.247	1.00	0.133	pCi/L	02/10/25 08:54	03/04/25 09:51	1

Carrier	*%Yield*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Ba Carrier	*87.8*		*30 - 110*	*02/10/25 08:54*	*03/04/25 09:51*	*1*

Method: SW846 9320 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	**0.763**		0.448	0.454	1.00	0.653	pCi/L	02/10/25 08:56	02/28/25 12:08	1

Carrier	*%Yield*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Ba Carrier	*87.8*		*30 - 110*	*02/10/25 08:56*	*02/28/25 12:08*	*1*
Y Carrier	*74.0*		*30 - 110*	*02/10/25 08:56*	*02/28/25 12:08*	*1*

Method: TAL-STL Ra226_Ra228 - Combined Radium-226 and Radium-228

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Combined Radium 226 + 228	**1.89**		0.502	0.517	5.00	0.653	pCi/L		03/05/25 08:45	1

Client: Southern Company
Project/Site: Plant McIntosh Ash Pond 1

Job ID: 680-261520-3

Client Sample ID: MCI-AP1-EB-03

Lab Sample ID: 680-261520-11

Date Collected: 02/04/25 12:55

Matrix: Water

Date Received: 02/05/25 09:41

Method: SW846 9315 - Radium-226 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	-0.0195	U	0.0914	0.0914	1.00	0.190	pCi/L	02/10/25 08:54	03/04/25 09:51	1

Carrier	*%Yield*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Ba Carrier	*91.8*		*30 - 110*	*02/10/25 08:54*	*03/04/25 09:51*	*1*

Method: SW846 9320 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	0.487	U	0.402	0.404	1.00	0.627	pCi/L	02/10/25 08:56	02/28/25 12:09	1

Carrier	*%Yield*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Ba Carrier	*91.8*		*30 - 110*	*02/10/25 08:56*	*02/28/25 12:09*	*1*
Y Carrier	*75.5*		*30 - 110*	*02/10/25 08:56*	*02/28/25 12:09*	*1*

Method: TAL-STL Ra226_Ra228 - Combined Radium-226 and Radium-228

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Combined Radium 226 + 228	0.467	U	0.412	0.414	5.00	0.627	pCi/L		03/05/25 08:45	1

Client Sample ID: MCI-AP1-FB-01

Lab Sample ID: 680-261520-12

Date Collected: 02/04/25 14:10

Matrix: Water

Date Received: 02/05/25 09:41

Method: SW846 9315 - Radium-226 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	0.00105	U	0.0731	0.0731	1.00	0.151	pCi/L	02/10/25 08:54	03/04/25 09:52	1

Carrier	*%Yield*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Ba Carrier	*83.4*		*30 - 110*	*02/10/25 08:54*	*03/04/25 09:52*	*1*

Method: SW846 9320 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	0.392	U	0.388	0.390	1.00	0.620	pCi/L	02/10/25 08:56	02/28/25 12:09	1

Carrier	*%Yield*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Ba Carrier	*83.4*		*30 - 110*	*02/10/25 08:56*	*02/28/25 12:09*	*1*
Y Carrier	*71.4*		*30 - 110*	*02/10/25 08:56*	*02/28/25 12:09*	*1*

Client Sample ID: MCI-AP1-FB-01

Lab Sample ID: 680-261520-12

Date Collected: 02/04/25 14:10
Matrix: Water
Date Received: 02/05/25 09:41

Method: TAL-STL Ra226_Ra228 - Combined Radium-226 and Radium-228

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Combined Radium 226 + 228	0.393	U	0.395	0.397	5.00	0.620	pCi/L		03/05/25 08:45	1

Client Sample ID: MCI-MGWC-7

Lab Sample ID: 680-261520-13

Date Collected: 02/04/25 15:32
Matrix: Water
Date Received: 02/05/25 09:41

Method: SW846 9315 - Radium-226 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	**0.978**		0.232	0.248	1.00	0.182	pCi/L	02/10/25 08:54	03/04/25 09:52	1

Carrier	*%Yield*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Ba Carrier	*83.7*		*30 - 110*	*02/10/25 08:54*	*03/04/25 09:52*	*1*

Method: SW846 9320 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	0.485	U	0.413	0.415	1.00	0.645	pCi/L	02/10/25 08:56	02/28/25 12:09	1

Carrier	*%Yield*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Ba Carrier	*83.7*		*30 - 110*	*02/10/25 08:56*	*02/28/25 12:09*	*1*
Y Carrier	*75.5*		*30 - 110*	*02/10/25 08:56*	*02/28/25 12:09*	*1*

Method: TAL-STL Ra226_Ra228 - Combined Radium-226 and Radium-228

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Combined Radium 226 + 228	**1.46**		0.474	0.483	5.00	0.645	pCi/L		03/05/25 08:45	1

Client Sample ID: MCI-MGWC-20

Lab Sample ID: 680-261520-14

Date Collected: 02/04/25 16:15
Matrix: Water
Date Received: 02/05/25 09:41

Method: SW846 9315 - Radium-226 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	**0.153**		0.104	0.105	1.00	0.142	pCi/L	02/10/25 08:54	03/04/25 09:52	1

Carrier	*%Yield*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Ba Carrier	*89.5*		*30 - 110*	*02/10/25 08:54*	*03/04/25 09:52*	*1*

Client Sample ID: MCI-MGWC-20

Lab Sample ID: 680-261520-14

Date Collected: 02/04/25 16:15

Matrix: Water

Date Received: 02/05/25 09:41

Method: SW846 9320 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	0.171	U	0.390	0.390	1.00	0.682	pCi/L	02/10/25 08:56	02/28/25 12:09	1

Carrier	*%Yield*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Ba Carrier	*89.5*		*30 - 110*	*02/10/25 08:56*	*02/28/25 12:09*	*1*
Y Carrier	*71.8*		*30 - 110*	*02/10/25 08:56*	*02/28/25 12:09*	*1*

Method: TAL-STL Ra226_Ra228 - Combined Radium-226 and Radium-228

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Combined Radium 226 + 228	0.324	U	0.404	0.404	5.00	0.682	pCi/L		03/05/25 08:45	1

Client Sample ID: MCI-AP1-EB-04

Lab Sample ID: 680-261520-15

Date Collected: 02/04/25 15:50

Matrix: Water

Date Received: 02/05/25 09:41

Method: SW846 9315 - Radium-226 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	0.0183	U	0.0793	0.0793	1.00	0.153	pCi/L	02/10/25 08:54	03/04/25 09:52	1

Carrier	*%Yield*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Ba Carrier	*89.8*		*30 - 110*	*02/10/25 08:54*	*03/04/25 09:52*	*1*

Method: SW846 9320 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	**0.818**		0.442	0.448	1.00	0.615	pCi/L	02/10/25 08:56	02/28/25 12:09	1

Carrier	*%Yield*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Ba Carrier	*89.8*		*30 - 110*	*02/10/25 08:56*	*02/28/25 12:09*	*1*
Y Carrier	*70.3*		*30 - 110*	*02/10/25 08:56*	*02/28/25 12:09*	*1*

Method: TAL-STL Ra226_Ra228 - Combined Radium-226 and Radium-228

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Combined Radium 226 + 228	**0.837**		0.449	0.455	5.00	0.615	pCi/L		03/05/25 08:45	1

Client: Southern Company
Project/Site: Plant McIntosh Ash Pond 1

Job ID: 680-261520-3

Client Sample ID: MCI-AP1-FB-02

Date Collected: 02/04/25 16:15
Date Received: 02/05/25 09:41

Lab Sample ID: 680-261520-16

Matrix: Water

Method: SW846 9315 - Radium-226 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	0.0636	U	0.111	0.111	1.00	0.193	pCi/L	02/10/25 08:54	03/04/25 09:52	1

Carrier	*%Yield*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Ba Carrier	*91.6*		*30 - 110*	*02/10/25 08:54*	*03/04/25 09:52*	*1*

Method: SW846 9320 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	0.313	U	0.403	0.404	1.00	0.671	pCi/L	02/10/25 08:56	02/28/25 12:09	1

Carrier	*%Yield*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Ba Carrier	*91.6*		*30 - 110*	*02/10/25 08:56*	*02/28/25 12:09*	*1*
Y Carrier	*77.0*		*30 - 110*	*02/10/25 08:56*	*02/28/25 12:09*	*1*

Method: TAL-STL Ra226_Ra228 - Combined Radium-226 and Radium-228

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Combined Radium 226 + 228	0.377	U	0.418	0.419	5.00	0.671	pCi/L		03/05/25 08:45	1

Tracer/Carrier Summary

Client: Southern Company
Project/Site: Plant McIntosh Ash Pond 1

Job ID: 680-261520-3

Method: 9315 - Radium-226 (GFPC)

Matrix: Water

Prep Type: Total/NA

		Percent Yield (Acceptance Limits)
		Ba
Lab Sample ID	Client Sample ID	(30-110)
680-261520-1	MCI-MGWA-5	91.8
680-261520-1 DU	MCI-MGWA-5	86.2
680-261520-2	MCI-MGWA-6	94.1
680-261520-3	MCI-MGWA-6A	88.5
680-261520-4	MCI-MGWA-10	93.9
680-261520-5	MCI-MGWA-11	91.1
680-261520-6	MCI-MGWC-3	93.1
680-261520-7	MCI-MGWC-1	83.2
680-261520-8	MCI-MGWC-8	98.5
680-261520-9	MCI-MGWC-12	81.1
680-261520-10	MCI-AP1-FD-01	87.8
680-261520-11	MCI-AP1-EB-03	91.8
680-261520-12	MCI-AP1-FB-01	83.4
680-261520-13	MCI-MGWC-7	83.7
680-261520-14	MCI-MGWC-20	89.5
680-261520-15	MCI-AP1-EB-04	89.8
680-261520-16	MCI-AP1-FB-02	91.6
LCS 160-702250/2-A	Lab Control Sample	96.9
MB 160-702250/1-A	Method Blank	90.3

Tracer/Carrier Legend

Ba = Ba Carrier

Method: 9320 - Radium-228 (GFPC)

Matrix: Water

Prep Type: Total/NA

		Percent Yield (Acceptance Limits)	
		Ba	Y
Lab Sample ID	Client Sample ID	(30-110)	(30-110)
680-261520-1	MCI-MGWA-5	91.8	76.3
680-261520-1 DU	MCI-MGWA-5	86.2	70.7
680-261520-2	MCI-MGWA-6	94.1	75.9
680-261520-3	MCI-MGWA-6A	88.5	73.3
680-261520-4	MCI-MGWA-10	93.9	77.0
680-261520-5	MCI-MGWA-11	91.1	72.1
680-261520-6	MCI-MGWC-3	93.1	73.3
680-261520-7	MCI-MGWC-1	83.2	71.8
680-261520-8	MCI-MGWC-8	98.5	72.9
680-261520-9	MCI-MGWC-12	81.1	74.0
680-261520-10	MCI-AP1-FD-01	87.8	74.0
680-261520-11	MCI-AP1-EB-03	91.8	75.5
680-261520-12	MCI-AP1-FB-01	83.4	71.4
680-261520-13	MCI-MGWC-7	83.7	75.5
680-261520-14	MCI-MGWC-20	89.5	71.8
680-261520-15	MCI-AP1-EB-04	89.8	70.3
680-261520-16	MCI-AP1-FB-02	91.6	77.0
LCS 160-702253/2-A	Lab Control Sample	96.9	77.0
MB 160-702253/1-A	Method Blank	90.3	75.5

Tracer/Carrier Legend

Ba = Ba Carrier

Tracer/Carrier Summary

Client: Southern Company
Job ID: 680-261520-3
Project/Site: Plant McIntosh Ash Pond 1

Y = Y Carrier

Method: 9315 - Radium-226 (GFPC)

Lab Sample ID: MB 160-702250/1-A
Matrix: Water
Analysis Batch: 705882

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 702250

Analyte	MB Result	MB Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	0.05810	U	0.0799	0.0801	1.00	0.135	pCi/L	02/10/25 08:54	03/04/25 09:40	1

Carrier	*MB %Yield*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Ba Carrier	*90.3*		*30 - 110*	*02/10/25 08:54*	*03/04/25 09:40*	*1*

Lab Sample ID: LCS 160-702250/2-A
Matrix: Water
Analysis Batch: 705882

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 702250

Analyte			Spike Added	LCS Result	LCS Qual	Total Uncert. (2σ+/-)	RL	MDC	Unit	%Rec	%Rec Limits		
Radium-226			9.58	8.614		0.968	1.00	0.181	pCi/L	90	75 - 125		

Carrier	*LCS %Yield*	*LCS Qualifier*	*Limits*
Ba Carrier	*96.9*		*30 - 110*

Lab Sample ID: 680-261520-1 DU
Matrix: Water
Analysis Batch: 705882

Client Sample ID: MCI-MGWA-5
Prep Type: Total/NA
Prep Batch: 702250

Analyte	Sample Result	Sample Qual		DU Result	DU Qual	Total Uncert. (2σ+/-)	RL	MDC	Unit			RER	RER Limit
Radium-226	-0.0384	U		0.06110	U	0.0871	1.00	0.148	pCi/L			0.71	1

Carrier	*DU %Yield*	*DU Qualifier*	*Limits*
Ba Carrier	*86.2*		*30 - 110*

Method: 9320 - Radium-228 (GFPC)

Lab Sample ID: MB 160-702253/1-A
Matrix: Water
Analysis Batch: 705324

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 702253

Analyte	MB Result	MB Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	0.5474	U	0.397	0.401	1.00	0.604	pCi/L	02/10/25 08:56	02/28/25 11:57	1

Carrier	*MB %Yield*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Ba Carrier	*90.3*		*30 - 110*	*02/10/25 08:56*	*02/28/25 11:57*	*1*
Y Carrier	*75.5*		*30 - 110*	*02/10/25 08:56*	*02/28/25 11:57*	*1*

Method: 9320 - Radium-228 (GFPC) (Continued)

Lab Sample ID: LCS 160-702253/2-A
Matrix: Water
Analysis Batch: 705324

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 702253

Analyte			Spike Added	LCS Result	LCS Qual	Total Uncert. (2σ+/-)	RL	MDC	Unit	%Rec	%Rec Limits		
Radium-228			8.06	8.562		1.22	1.00	0.533	pCi/L	106	75 - 125		

Carrier	*LCS %Yield*	*LCS Qualifier*	*Limits*
Ba Carrier	*96.9*		*30 - 110*
Y Carrier	*77.0*		*30 - 110*

Lab Sample ID: 680-261520-1 DU
Matrix: Water
Analysis Batch: 705326

Client Sample ID: MCI-MGWA-5
Prep Type: Total/NA
Prep Batch: 702253

Analyte	Sample Result	Sample Qual		DU Result	DU Qual	Total Uncert. (2σ+/-)	RL	MDC	Unit			RER	RER Limit
Radium-228	0.0738	U		0.9438	F	0.501	1.00	0.697	pCi/L			1.12	1

Carrier	*DU %Yield*	*DU Qualifier*	*Limits*
Ba Carrier	*86.2*		*30 - 110*
Y Carrier	*70.7*		*30 - 110*

QC Association Summary

Client: Southern Company
Project/Site: Plant McIntosh Ash Pond 1

Job ID: 680-261520-3

Rad

Prep Batch: 702250

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-261520-1	MCI-MGWA-5	Total/NA	Water	PrecSep-21	
680-261520-2	MCI-MGWA-6	Total/NA	Water	PrecSep-21	
680-261520-3	MCI-MGWA-6A	Total/NA	Water	PrecSep-21	
680-261520-4	MCI-MGWA-10	Total/NA	Water	PrecSep-21	
680-261520-5	MCI-MGWA-11	Total/NA	Water	PrecSep-21	
680-261520-6	MCI-MGWC-3	Total/NA	Water	PrecSep-21	
680-261520-7	MCI-MGWC-1	Total/NA	Water	PrecSep-21	
680-261520-8	MCI-MGWC-8	Total/NA	Water	PrecSep-21	
680-261520-9	MCI-MGWC-12	Total/NA	Water	PrecSep-21	
680-261520-10	MCI-AP1-FD-01	Total/NA	Water	PrecSep-21	
680-261520-11	MCI-AP1-EB-03	Total/NA	Water	PrecSep-21	
680-261520-12	MCI-AP1-FB-01	Total/NA	Water	PrecSep-21	
680-261520-13	MCI-MGWC-7	Total/NA	Water	PrecSep-21	
680-261520-14	MCI-MGWC-20	Total/NA	Water	PrecSep-21	
680-261520-15	MCI-AP1-EB-04	Total/NA	Water	PrecSep-21	
680-261520-16	MCI-AP1-FB-02	Total/NA	Water	PrecSep-21	
MB 160-702250/1-A	Method Blank	Total/NA	Water	PrecSep-21	
LCS 160-702250/2-A	Lab Control Sample	Total/NA	Water	PrecSep-21	
680-261520-1 DU	MCI-MGWA-5	Total/NA	Water	PrecSep-21	

Prep Batch: 702253

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-261520-1	MCI-MGWA-5	Total/NA	Water	PrecSep_0	
680-261520-2	MCI-MGWA-6	Total/NA	Water	PrecSep_0	
680-261520-3	MCI-MGWA-6A	Total/NA	Water	PrecSep_0	
680-261520-4	MCI-MGWA-10	Total/NA	Water	PrecSep_0	
680-261520-5	MCI-MGWA-11	Total/NA	Water	PrecSep_0	
680-261520-6	MCI-MGWC-3	Total/NA	Water	PrecSep_0	
680-261520-7	MCI-MGWC-1	Total/NA	Water	PrecSep_0	
680-261520-8	MCI-MGWC-8	Total/NA	Water	PrecSep_0	
680-261520-9	MCI-MGWC-12	Total/NA	Water	PrecSep_0	
680-261520-10	MCI-AP1-FD-01	Total/NA	Water	PrecSep_0	
680-261520-11	MCI-AP1-EB-03	Total/NA	Water	PrecSep_0	
680-261520-12	MCI-AP1-FB-01	Total/NA	Water	PrecSep_0	
680-261520-13	MCI-MGWC-7	Total/NA	Water	PrecSep_0	
680-261520-14	MCI-MGWC-20	Total/NA	Water	PrecSep_0	
680-261520-15	MCI-AP1-EB-04	Total/NA	Water	PrecSep_0	
680-261520-16	MCI-AP1-FB-02	Total/NA	Water	PrecSep_0	
MB 160-702253/1-A	Method Blank	Total/NA	Water	PrecSep_0	
LCS 160-702253/2-A	Lab Control Sample	Total/NA	Water	PrecSep_0	
680-261520-1 DU	MCI-MGWA-5	Total/NA	Water	PrecSep_0	

Lab Chronicle

Client: Southern Company
Project/Site: Plant McIntosh Ash Pond 1

Job ID: 680-261520-3

Client Sample ID: MCI-MGWA-5

Lab Sample ID: 680-261520-1

Date Collected: 02/03/25 16:32

Matrix: Water

Date Received: 02/05/25 09:41

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	PrecSep-21			1003.88 mL	1.0 g	702250	02/10/25 08:54	OGC	EET SL
Total/NA	Analysis	9315		1			705882	03/04/25 09:41	SRE	EET SL
	Instrument ID: GFPCRED									
Total/NA	Prep	PrecSep_0			1003.88 mL	1.0 g	702253	02/10/25 08:56	OGC	EET SL
Total/NA	Analysis	9320		1			705326	02/28/25 12:07	SWS	EET SL
	Instrument ID: GFPCBLUE									
Total/NA	Analysis	Ra226_Ra228		1			706170	03/05/25 08:45	FLC	EET SL
	Instrument ID: NOEQUIP									

Client Sample ID: MCI-MGWA-6

Lab Sample ID: 680-261520-2

Date Collected: 02/03/25 16:26

Matrix: Water

Date Received: 02/05/25 09:41

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	PrecSep-21			1001.74 mL	1.0 g	702250	02/10/25 08:54	OGC	EET SL
Total/NA	Analysis	9315		1			705882	03/04/25 10:16	SRE	EET SL
	Instrument ID: GFPCRED									
Total/NA	Prep	PrecSep_0			1001.74 mL	1.0 g	702253	02/10/25 08:56	OGC	EET SL
Total/NA	Analysis	9320		1			705326	02/28/25 12:07	SWS	EET SL
	Instrument ID: GFPCBLUE									
Total/NA	Analysis	Ra226_Ra228		1			706170	03/05/25 08:45	FLC	EET SL
	Instrument ID: NOEQUIP									

Client Sample ID: MCI-MGWA-6A

Lab Sample ID: 680-261520-3

Date Collected: 02/04/25 09:50

Matrix: Water

Date Received: 02/05/25 09:41

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	PrecSep-21			1003.60 mL	1.0 g	702250	02/10/25 08:54	OGC	EET SL
Total/NA	Analysis	9315		1			705883	03/04/25 09:51	SWS	EET SL
	Instrument ID: GFPCBLUE									
Total/NA	Prep	PrecSep_0			1003.60 mL	1.0 g	702253	02/10/25 08:56	OGC	EET SL
Total/NA	Analysis	9320		1			705326	02/28/25 12:08	SWS	EET SL
	Instrument ID: GFPCBLUE									
Total/NA	Analysis	Ra226_Ra228		1			706170	03/05/25 08:45	FLC	EET SL
	Instrument ID: NOEQUIP									

Client Sample ID: MCI-MGWA-10

Lab Sample ID: 680-261520-4

Date Collected: 02/04/25 09:38

Matrix: Water

Date Received: 02/05/25 09:41

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	PrecSep-21			1000.72 mL	1.0 g	702250	02/10/25 08:54	OGC	EET SL
Total/NA	Analysis	9315		1			705883	03/04/25 09:51	SWS	EET SL
	Instrument ID: GFPCBLUE									

Lab Chronicle

Client: Southern Company
Project/Site: Plant McIntosh Ash Pond 1

Job ID: 680-261520-3

Client Sample ID: MCI-MGWA-10

Lab Sample ID: 680-261520-4

Date Collected: 02/04/25 09:38

Matrix: Water

Date Received: 02/05/25 09:41

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	PrecSep_0			1000.72 mL	1.0 g	702253	02/10/25 08:56	OGC	EET SL
Total/NA	Analysis	9320		1			705326	02/28/25 12:08	SWS	EET SL
	Instrument ID: GFPCBLUE									
Total/NA	Analysis	Ra226_Ra228		1			706170	03/05/25 08:45	FLC	EET SL
	Instrument ID: NOEQUIP									

Client Sample ID: MCI-MGWA-11

Lab Sample ID: 680-261520-5

Date Collected: 02/04/25 10:49

Matrix: Water

Date Received: 02/05/25 09:41

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	PrecSep-21			1000.90 mL	1.0 g	702250	02/10/25 08:54	OGC	EET SL
Total/NA	Analysis	9315		1			705883	03/04/25 09:51	SWS	EET SL
	Instrument ID: GFPCBLUE									
Total/NA	Prep	PrecSep_0			1000.90 mL	1.0 g	702253	02/10/25 08:56	OGC	EET SL
Total/NA	Analysis	9320		1			705326	02/28/25 12:08	SWS	EET SL
	Instrument ID: GFPCBLUE									
Total/NA	Analysis	Ra226_Ra228		1			706170	03/05/25 08:45	FLC	EET SL
	Instrument ID: NOEQUIP									

Client Sample ID: MCI-MGWC-3

Lab Sample ID: 680-261520-6

Date Collected: 02/04/25 11:36

Matrix: Water

Date Received: 02/05/25 09:41

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	PrecSep-21			1001.70 mL	1.0 g	702250	02/10/25 08:54	OGC	EET SL
Total/NA	Analysis	9315		1			705883	03/04/25 09:51	SWS	EET SL
	Instrument ID: GFPCBLUE									
Total/NA	Prep	PrecSep_0			1001.70 mL	1.0 g	702253	02/10/25 08:56	OGC	EET SL
Total/NA	Analysis	9320		1			705326	02/28/25 12:08	SWS	EET SL
	Instrument ID: GFPCBLUE									
Total/NA	Analysis	Ra226_Ra228		1			706170	03/05/25 08:45	FLC	EET SL
	Instrument ID: NOEQUIP									

Client Sample ID: MCI-MGWC-1

Lab Sample ID: 680-261520-7

Date Collected: 02/04/25 12:22

Matrix: Water

Date Received: 02/05/25 09:41

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	PrecSep-21			1000.65 mL	1.0 g	702250	02/10/25 08:54	OGC	EET SL
Total/NA	Analysis	9315		1			705883	03/04/25 09:51	SWS	EET SL
	Instrument ID: GFPCBLUE									
Total/NA	Prep	PrecSep_0			1000.65 mL	1.0 g	702253	02/10/25 08:56	OGC	EET SL
Total/NA	Analysis	9320		1			705326	02/28/25 12:08	SWS	EET SL
	Instrument ID: GFPCBLUE									

Lab Chronicle

Client: Southern Company
Project/Site: Plant McIntosh Ash Pond 1

Job ID: 680-261520-3

Client Sample ID: MCI-MGWC-1

Lab Sample ID: 680-261520-7

Date Collected: 02/04/25 12:22

Matrix: Water

Date Received: 02/05/25 09:41

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Ra226_Ra228		1			706170	03/05/25 08:45	FLC	EET SL

Client Sample ID: MCI-MGWC-8

Lab Sample ID: 680-261520-8

Date Collected: 02/04/25 14:24

Matrix: Water

Date Received: 02/05/25 09:41

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	PrecSep-21			1001.98 mL	1.0 g	702250	02/10/25 08:54	OGC	EET SL
Total/NA	Analysis	9315		1			705883	03/04/25 09:51	SWS	EET SL
	Instrument ID: GFPCBLUE									
Total/NA	Prep	PrecSep_0			1001.98 mL	1.0 g	702253	02/10/25 08:56	OGC	EET SL
Total/NA	Analysis	9320		1			705326	02/28/25 12:08	SWS	EET SL
	Instrument ID: GFPCBLUE									
Total/NA	Analysis	Ra226_Ra228		1			706170	03/05/25 08:45	FLC	EET SL
	Instrument ID: NOEQUIP									

Client Sample ID: MCI-MGWC-12

Lab Sample ID: 680-261520-9

Date Collected: 02/04/25 14:30

Matrix: Water

Date Received: 02/05/25 09:41

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	PrecSep-21			1001.86 mL	1.0 g	702250	02/10/25 08:54	OGC	EET SL
Total/NA	Analysis	9315		1			705883	03/04/25 09:51	SWS	EET SL
	Instrument ID: GFPCBLUE									
Total/NA	Prep	PrecSep_0			1001.86 mL	1.0 g	702253	02/10/25 08:56	OGC	EET SL
Total/NA	Analysis	9320		1			705326	02/28/25 12:08	SWS	EET SL
	Instrument ID: GFPCBLUE									
Total/NA	Analysis	Ra226_Ra228		1			706170	03/05/25 08:45	FLC	EET SL
	Instrument ID: NOEQUIP									

Client Sample ID: MCI-AP1-FD-01

Lab Sample ID: 680-261520-10

Date Collected: 02/04/25 00:00

Matrix: Water

Date Received: 02/05/25 09:41

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	PrecSep-21			1003.53 mL	1.0 g	702250	02/10/25 08:54	OGC	EET SL
Total/NA	Analysis	9315		1			705883	03/04/25 09:51	SWS	EET SL
	Instrument ID: GFPCBLUE									
Total/NA	Prep	PrecSep_0			1003.53 mL	1.0 g	702253	02/10/25 08:56	OGC	EET SL
Total/NA	Analysis	9320		1			705326	02/28/25 12:08	SWS	EET SL
	Instrument ID: GFPCBLUE									
Total/NA	Analysis	Ra226_Ra228		1			706170	03/05/25 08:45	FLC	EET SL
	Instrument ID: NOEQUIP									

Client Sample ID: MCI-AP1-EB-03
Lab Sample ID: 680-261520-11

Date Collected: 02/04/25 12:55
Matrix: Water
Date Received: 02/05/25 09:41

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	PrecSep-21			1002.95 mL	1.0 g	702250	02/10/25 08:54	OGC	EET SL
Total/NA	Analysis	9315		1			705883	03/04/25 09:51	SWS	EET SL
	Instrument ID: GFPCBLUE									
Total/NA	Prep	PrecSep_0			1002.95 mL	1.0 g	702253	02/10/25 08:56	OGC	EET SL
Total/NA	Analysis	9320		1			705326	02/28/25 12:09	SWS	EET SL
	Instrument ID: GFPCBLUE									
Total/NA	Analysis	Ra226_Ra228		1			706170	03/05/25 08:45	FLC	EET SL
	Instrument ID: NOEQUIP									

Client Sample ID: MCI-AP1-FB-01
Lab Sample ID: 680-261520-12

Date Collected: 02/04/25 14:10
Matrix: Water
Date Received: 02/05/25 09:41

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	PrecSep-21			1001.01 mL	1.0 g	702250	02/10/25 08:54	OGC	EET SL
Total/NA	Analysis	9315		1			705883	03/04/25 09:52	SWS	EET SL
	Instrument ID: GFPCBLUE									
Total/NA	Prep	PrecSep_0			1001.01 mL	1.0 g	702253	02/10/25 08:56	OGC	EET SL
Total/NA	Analysis	9320		1			705326	02/28/25 12:09	SWS	EET SL
	Instrument ID: GFPCBLUE									
Total/NA	Analysis	Ra226_Ra228		1			706170	03/05/25 08:45	FLC	EET SL
	Instrument ID: NOEQUIP									

Client Sample ID: MCI-MGWC-7
Lab Sample ID: 680-261520-13

Date Collected: 02/04/25 15:32
Matrix: Water
Date Received: 02/05/25 09:41

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	PrecSep-21			1000.77 mL	1.0 g	702250	02/10/25 08:54	OGC	EET SL
Total/NA	Analysis	9315		1			705883	03/04/25 09:52	SWS	EET SL
	Instrument ID: GFPCBLUE									
Total/NA	Prep	PrecSep_0			1000.77 mL	1.0 g	702253	02/10/25 08:56	OGC	EET SL
Total/NA	Analysis	9320		1			705326	02/28/25 12:09	SWS	EET SL
	Instrument ID: GFPCBLUE									
Total/NA	Analysis	Ra226_Ra228		1			706170	03/05/25 08:45	FLC	EET SL
	Instrument ID: NOEQUIP									

Client Sample ID: MCI-MGWC-20
Lab Sample ID: 680-261520-14

Date Collected: 02/04/25 16:15
Matrix: Water
Date Received: 02/05/25 09:41

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	PrecSep-21			1001.40 mL	1.0 g	702250	02/10/25 08:54	OGC	EET SL
Total/NA	Analysis	9315		1			705883	03/04/25 09:52	SWS	EET SL
	Instrument ID: GFPCBLUE									

Lab Chronicle

Client: Southern Company
Project/Site: Plant McIntosh Ash Pond 1

Job ID: 680-261520-3

Client Sample ID: MCI-MGWC-20

Lab Sample ID: 680-261520-14

Date Collected: 02/04/25 16:15

Matrix: Water

Date Received: 02/05/25 09:41

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	PrecSep_0			1001.40 mL	1.0 g	702253	02/10/25 08:56	OGC	EET SL
Total/NA	Analysis	9320		1			705326	02/28/25 12:09	SWS	EET SL
	Instrument ID: GFPCBLUE									
Total/NA	Analysis	Ra226_Ra228		1			706170	03/05/25 08:45	FLC	EET SL
	Instrument ID: NOEQUIP									

Client Sample ID: MCI-AP1-EB-04

Lab Sample ID: 680-261520-15

Date Collected: 02/04/25 15:50

Matrix: Water

Date Received: 02/05/25 09:41

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	PrecSep-21			1002.62 mL	1.0 g	702250	02/10/25 08:54	OGC	EET SL
Total/NA	Analysis	9315		1			705883	03/04/25 09:52	SWS	EET SL
	Instrument ID: GFPCBLUE									
Total/NA	Prep	PrecSep_0			1002.62 mL	1.0 g	702253	02/10/25 08:56	OGC	EET SL
Total/NA	Analysis	9320		1			705326	02/28/25 12:09	SWS	EET SL
	Instrument ID: GFPCBLUE									
Total/NA	Analysis	Ra226_Ra228		1			706170	03/05/25 08:45	FLC	EET SL
	Instrument ID: NOEQUIP									

Client Sample ID: MCI-AP1-FB-02

Lab Sample ID: 680-261520-16

Date Collected: 02/04/25 16:15

Matrix: Water

Date Received: 02/05/25 09:41

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	PrecSep-21			1003.74 mL	1.0 g	702250	02/10/25 08:54	OGC	EET SL
Total/NA	Analysis	9315		1			705883	03/04/25 09:52	SWS	EET SL
	Instrument ID: GFPCBLUE									
Total/NA	Prep	PrecSep_0			1003.74 mL	1.0 g	702253	02/10/25 08:56	OGC	EET SL
Total/NA	Analysis	9320		1			705326	02/28/25 12:09	SWS	EET SL
	Instrument ID: GFPCBLUE									
Total/NA	Analysis	Ra226_Ra228		1			706170	03/05/25 08:45	FLC	EET SL
	Instrument ID: NOEQUIP									

Laboratory References:

EET SL = Eurofins St. Louis, 13715 Rider Trail North, Earth City, MO 63045, TEL (314)298-8566

Accreditation/Certification Summary

Client: Southern Company
Job ID: 680-261520-3
Project/Site: Plant McIntosh Ash Pond 1

Laboratory: Eurofins St. Louis

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

Authority	Program	Identification Number	Expiration Date
Florida	NELAP	E87689	06-30-25

Method Summary

Client: Southern Company
Project/Site: Plant McIntosh Ash Pond 1

Job ID: 680-261520-3

Method	Method Description	Protocol	Laboratory
9315	Radium-226 (GFPC)	SW846	EET SL
9320	Radium-228 (GFPC)	SW846	EET SL
Ra226_Ra228	Combined Radium-226 and Radium-228	TAL-STL	EET SL
PrecSep_0	Preparation, Precipitate Separation	None	EET SL
PrecSep-21	Preparation, Precipitate Separation (21-Day In-Growth)	None	EET SL

Protocol References:

None = None

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

TAL-STL = TestAmerica Laboratories, St. Louis, Facility Standard Operating Procedure.

Laboratory References:

EET SL = Eurofins St. Louis, 13715 Rider Trail North, Earth City, MO 63045, TEL (314)298-8566

Eurofins TestAmerica, Savannah
5102 LaRoche Avenue
Savannah GA 31404
Phone (912) 354-7858 Fax (912) 352-0165

Chain of Custody Record

eurofins | Environment Testing America

Client Information	Sampler: T Gode/J. May ACC	Lab PM: Fuller, David	Carrier Tracking No(s)	COC No
Client Contact: SCS Contacts	Phone: 770-594-5998	E-Mail: david.fuller@et.eurofinsus.com		Page: 1 of 2
Company: GA Power				Job #:
Address: 241 Ralph McGill Blvd SE	Due Date Requested	Analysis Requested		Preservation Codes
City: Atlanta	TAT Requested (days)			A - HCL; B - NaOH; M - Hexane; N - None; O - AsNaO2; P - Na2O4S; Q - Na2SO3; R - Na2S2O3; S - H2SO4; T - TSP Dodecahydrate; U - Acetone; V - MCAA; W - pH 4-5; Z - other (specify)
State Zip: GA, 30308				
Phone: 404-506-7116(Tel)	Lab Project #: 68027747			
Email: SCS Contacts / ACC Contacts	PO #: GPC82130-0002			
Project Name: Plant McIntosh - Ash Pond 1	Project #:			Other:
Site: Georgia	SSOW#:			Task_Code: MCI-CCR-ASSMT-2025S1

680-261520 Chain of Custody

Sample Identification	Sample Date (mm/dd/yy)	Sample Time (hhmm)	Sample Type (C=comp, G=grab)	Matrix (WG=ground water WS=surface water WQ=quality control)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	App. III Metals (B, Ca)	Cl, F, SO4, TDS (EPA 300.0 & SM 2540C)	App IV Metals (Sb, As, Ba, Be, Cd, Cr, Co, Pb, Li, Hg, Mo, Se, Tl) (EPA 6020/7470)	Radium 226 & 228 (SW-846 9315/9320)	Total Number of con	Special Instructions/Note: Full APP III + APP IV
			Preservation Code:				D	I	D	D		
MCI- MGWA-5	02/03/25	1632	G	WG	N	N	✓	✓	✓	✓	TG 5	5
MCI- MGWA-6	02/03/25	1626	G	WG	N	N	✓	✓	✓	✓	TG 6	5
MCI- MGWA-6A	02/04/25	0950	G	WG	N	N	✓	✓	✓	✓	5	
MCI- MGWA-10	02/04/25	0934	G	WG	N	N	✓	✓	✓	✓	5	
MCI- MGWA-11	02/04/25	1049	G	WG	N	N	✓	✓	✓	✓	5	
MCI- MGWC-3	02/04/25	1136	G	WG	N	N	✓	✓	✓	✓	5	
MCI- MGWC-1	02/04/25	1222	G	WG	N	N	✓	✓	✓	✓	5	
MCI- MGWC-8	02/04/25	1424	G	WG	N	N	✓	✓	✓	✓	5	
MCI- MGWC-12	02/04/25	1430	G	WG	N	N	✓	✓	✓	✓	5	
MCI- AP1-FD-01	02/04/25	—	G	WG	N	N	✓	✓	✓	✓	5	
MCI- AP1-EB-03	02/04/25	1255	G	WQ	N	N	✓	✓	✓	✓	5	

Possible Hazard Identification
☐ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown ☐ Radiological

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
☐ 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	Company	Received by	Date/Time	Company
1	Taylor Godd	2-4-25/2011	ACC		2/4/25 2011	ACC
2		2/5/25 0941	ACC		2/5/25 941	
3		Date/Time	Company		Date/Time	Company

Custody Seals Intact: ☐ Yes ☐ No | Custody Seal No

Cooler Temperature(s) °C and Other Remarks: 2.9/2.1 1.8/1.8 4.4/4.4 2.4/2.4 3.2/3.2

Eurofins TestAmerica, Savannah
5102 LaRoche Avenue
Savannah GA 31404
Phone (912) 354-7858 Fax (912) 352-0165

Chain of Custody Record

eurofins | Environment Testing America

Client Information	Sampler: T. Gable / J. May ACC	Lab PM: Fuller, David	Carrier Tracking No(s)	COC No
Client Contact: SCS Contacts	Phone: 770-594-5998	E-Mail: david.fuller@et.eurofinsus.com		Page: 2 of 2
Company: GA Power				Job #:
Address: 241 Ralph McGill Blvd SE	Due Date Requested			
City: Atlanta	TAT Requested (days)			
State, Zip: GA, 30308				
Phone: 404-506-7116(Tel)	Lab Project #: 68027747			
Email: SCS Contacts / ACC Contacts	PO #: GPC82130-0002			
Project Name: Plant McIntosh - Ash Pond 1	Project #:			
Site: Georgia	SSOW#:			

Analysis Requested

Preservation Codes

A - HCL	M - Hexane
B - NaOH	N - None
C - Zn Acetate	O - AsNaO2
D - Nitric Acid	P - Na2O4S
E - NaHSO4	Q - Na2SO3
F - MeOH	R - Na2S2O3
G - Amchlor	S - H2SO4
H - Ascorbic Acid	T TSP Dodecahydrate
I - Ice	U - Acetone
J - DI Water	V - MCAA
K - EDTA	W - pH 4-5
L - EDA	Z - other (specify)

Other:

Task_Code: MCI-CCR-ASSMT-2025S1

Special Instructions/Note. Full APP III + APP IV

Sample Identification	Sample Date (mm/dd/yy)	Sample Time (hhmm)	Sample Type (C=comp, G=grab)	Matrix (WG=ground water WS=surface water WQ=quality control)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	App III Metals (B, Ca)	Cl, F, SO4, TDS (EPA 300.0 & SM 2540C)	App. IV Metals (Sb, As, Ba, Be, Cd, Cr, Co, Pb, Li, Hg, Mo, Se, Tl) (EPA 6020/7470)	Radium 226 & 228 (SW-846 9315/9320)	Total Number of containers
			Preservation Code:				D	I	D	D	
MCI- API-FB-01	02/04/25	1410	G	~~WG~~ WQ	N	N	✓	✓	✓	✓	~~5~~ 5
MCI- MGWC-7	02/04/25	1532	G	WG	N	N	✓	✓	✓	✓	5
MCI- MGWC-20	02/04/25	1615	G	WG	N	N	✓	✓	✓	✓	5
MCI- API-EB-04	02/04/25	1550	G	WQ	N	N	✓	✓	✓	✓	5
MCI- API-FB-02	02/04/25	1615	G	WQ	N	N	✓	✓	✓	✓	5
MCI-			G			N					
MCI-			G			N					
MCI-			G			N					
MCI-			G			N					
MCI-			G			N					
MCI-			G			N					

Possible Hazard Identification
☐ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown ☐ Radiological

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
☐ 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:	Company	Received by:	Date/Time:	Company
1	Taylor Gable	2-4-25/2011	ACC		2/4/25 2011	ACC
2		2/5/25 0941	ACC		2/5/25 941	
3		Date/Time.	Company	Received by:	Date/Time	Company

Custody Seals Intact: ☐ Yes ☐ No | Custody Seal No

Cooler Temperature(s) °C and Other Remarks: 2.1/2.1 4/4/4 2.4/2.4 1.8/1.8 3.2/3.2

Login Sample Receipt Checklist

Client: Southern Company

Job Number: 680-261520-3

Login Number: 261520

List Source: Eurofins Savannah

List Number: 1

Creator: Munro, Caroline

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

This receipt checklist is generated for all samples received in this Login. It may not be applicable to all Jobs associated with this Login.

Login Sample Receipt Checklist

Client: Southern Company

Job Number: 680-261520-3

Login Number: 261520
List Number: 2
Creator: Forrest, Cheyenne L

List Source: Eurofins St. Louis
List Creation: 02/07/25 01:39 PM

Question	Answer	Comment
Radioactivity wasn't checked or is </= background as measured by a survey meter.	True	
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.	N/A	
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?	N/A	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	N/A	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	

This receipt checklist is generated for all samples received in this Login. It may not be applicable to all Jobs associated with this Login.

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ANALYTICAL REPORT

PREPARED FOR

Attn: Kevin Stephenson
Southern Company
241 Ralph McGill Blvd SE
B10185
Atlanta, Georgia 30308

Generated 3/14/2025 1:52:01 PM Revision 1

JOB DESCRIPTION

Plant McIntosh - Ash Pond 1

JOB NUMBER

680-261610-1

Eurofins Savannah
5102 LaRoche Avenue
Savannah GA 31404

See page two for job notes and contact information.

my EOL

Job Notes

This report may not be reproduced except in full, and with written approval from the laboratory. The results relate only to the samples tested. For questions please contact the Project Manager at the e-mail address or telephone number listed on this page.

The test results in this report relate only to the samples as received by the laboratory and will meet all requirements of the methodology, with any exceptions noted. This report shall not be reproduced except in full, without the express written approval of the laboratory. All questions should be directed to the Eurofins Environment Testing Southeast, LLC Project Manager.

Authorization



Generated
3/14/2025 1:52:01 PM
Revision 1

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

Definitions/Glossary

Client: Southern Company
Project/Site: Plant McIntosh - Ash Pond 1

Job ID: 680-261610-1

Qualifiers

HPLC/IC

Qualifier	Qualifier Description
F1	MS and/or MSD recovery exceeds control limits.
F2	MS/MSD RPD exceeds control limits

Metals

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

General Chemistry

Qualifier	Qualifier Description
F3	Duplicate RPD exceeds the control limit

Glossary

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

Sample Summary

Client: Southern Company
Project/Site: Plant McIntosh - Ash Pond 1

Job ID: 680-261610-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
680-261610-1	MCI-MGWC-2	Water	02/05/25 10:57	02/06/25 09:40
680-261610-2	MCI-MGWC-19	Water	02/05/25 12:41	02/06/25 09:40
680-261610-3	MCI-AP1-FD-02	Water	02/05/25 00:00	02/06/25 09:40

Job ID: 680-261610-1 — Eurofins Savannah

Job Narrative
680-261610-1

Revision 1
The report being provided is a revision of the original report sent on 2/21/2025. The report (revision 1) is being revised in order to revise IC Method 300 batch 875260 so the Method Blank reports properly.

Analytical test results meet all requirements of the associated regulatory program listed on the Accreditation/Certification Summary Page unless otherwise noted under the individual analysis. Data qualifiers and/or narrative comments are included to explain any exceptions, if applicable.

- Matrix QC may not be reported if insufficient sample is provided or site-specific QC samples were not submitted. In these situations, to demonstrate precision and accuracy at a batch level, a LCS/LCSD may be performed, unless otherwise specified in the method.
- Surrogate and/or isotope dilution analyte recoveries (if applicable) which are outside of the QC window are confirmed unless attributed to a dilution or otherwise noted in the narrative.

Receipt
The samples were received on 2/6/2025 9:40 AM. Unless otherwise noted below, the samples arrived in good condition, and, where required, properly preserved and on ice. The temperature of the cooler at receipt time was 3.0°C.

HPLC/IC
Method 300_ORGFM_28D: The matrix spike / matrix spike duplicate (MS/MSD) recoveries and precision for analytical batch 680-875260 were outside control limits. Sample matrix interference and/or non-homogeneity are suspected because the associated laboratory control sample / laboratory sample control duplicate (LCS/LCSD) precision 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 additional analytical or quality issues were noted, other than those described above or in the Definitions/ Glossary page.

General Chemistry
Method 2540C: A lesser volume of sample was used for the following samples due to the nature of the sample matrix resulting in elevated reporting limits: MCI-MGWC-2 (680-261610-1), MCI-MGWC-19 (680-261610-2) and MCI-AP1-FD-02 (680-261610-3).

Method 2540C: The sample duplicate precision for the following sample associated with analytical batch 680-875415 was outside control limits: (680-261610-C-1 DU). The associated Laboratory Control Sample / Laboratory Control Sample Duplicate (LCS/LCSD) precision met acceptance criteria.

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

Client: Southern Company
Project/Site: Plant McIntosh - Ash Pond 1

Job ID: 680-261610-1

Client Sample ID: MCI-MGWC-2

Lab Sample ID: 680-261610-1

Date Collected: 02/05/25 10:57

Matrix: Water

Date Received: 02/06/25 09:40

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**12**		10	2.0	mg/L			02/11/25 16:02	10
Fluoride	<0.40		1.0	0.40	mg/L			02/11/25 16:02	10
Sulfate	**150**		10	4.0	mg/L			02/11/25 16:02	10

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.00034		0.0020	0.00034	mg/L		02/07/25 05:43	02/07/25 15:40	1
Arsenic	<0.00086		0.0010	0.00086	mg/L		02/07/25 05:43	02/07/25 15:40	1
Barium	**0.057**		0.010	0.00089	mg/L		02/07/25 05:43	02/07/25 15:40	1
Beryllium	<0.00020		0.0025	0.00020	mg/L		02/07/25 05:43	02/07/25 15:40	1
Boron	**1.7**		0.080	0.022	mg/L		02/07/25 05:43	02/07/25 15:40	1
Cadmium	**0.00021**	**J**	0.0025	0.000078	mg/L		02/07/25 05:43	02/07/25 15:40	1
Calcium	**100**		0.50	0.14	mg/L		02/07/25 05:43	02/07/25 15:40	1
Chromium	**0.0027**		0.0020	0.0012	mg/L		02/07/25 05:43	02/07/25 15:40	1
Cobalt	**0.00085**	**J**	0.0025	0.00022	mg/L		02/07/25 05:43	02/07/25 15:40	1
Lead	<0.00021		0.0010	0.00021	mg/L		02/07/25 05:43	02/07/25 15:40	1
Lithium	**0.0087**	**B**	0.0050	0.0020	mg/L		02/07/25 05:43	02/08/25 13:30	1
Molybdenum	<0.00086		0.015	0.00086	mg/L		02/07/25 05:43	02/07/25 15:40	1
Selenium	<0.00099		0.0050	0.00099	mg/L		02/07/25 05:43	02/07/25 15:40	1
Thallium	<0.00026		0.0010	0.00026	mg/L		02/07/25 05:43	02/07/25 15:40	1

Method: SW846 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.000080		0.00020	0.000080	mg/L		02/12/25 12:58	02/12/25 18:49	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids (SM 2540C-2011)	**420**		40	40	mg/L			02/12/25 08:14	1

Client Sample ID: MCI-MGWC-19

Lab Sample ID: 680-261610-2

Date Collected: 02/05/25 12:41

Matrix: Water

Date Received: 02/06/25 09:40

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**13**		10	2.0	mg/L			02/11/25 16:12	10
Fluoride	<0.40		1.0	0.40	mg/L			02/11/25 16:12	10
Sulfate	**280**		10	4.0	mg/L			02/11/25 16:12	10

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.00034		0.0020	0.00034	mg/L		02/07/25 05:43	02/07/25 16:14	1
Arsenic	**0.0014**		0.0010	0.00086	mg/L		02/07/25 05:43	02/07/25 16:14	1
Barium	**0.025**		0.010	0.00089	mg/L		02/07/25 05:43	02/07/25 16:14	1
Beryllium	<0.00020		0.0025	0.00020	mg/L		02/07/25 05:43	02/07/25 16:14	1
Boron	**1.4**		0.080	0.022	mg/L		02/07/25 05:43	02/07/25 16:14	1
Cadmium	<0.000078		0.0025	0.000078	mg/L		02/07/25 05:43	02/07/25 16:14	1
Calcium	**110**		0.50	0.14	mg/L		02/07/25 05:43	02/07/25 16:14	1
Chromium	<0.0012		0.0020	0.0012	mg/L		02/07/25 05:43	02/07/25 16:14	1
Cobalt	<0.00022		0.0025	0.00022	mg/L		02/07/25 05:43	02/07/25 16:14	1

Client Sample ID: MCI-MGWC-19

Lab Sample ID: 680-261610-2

Date Collected: 02/05/25 12:41

Matrix: Water

Date Received: 02/06/25 09:40

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	<0.00021		0.0010	0.00021	mg/L		02/07/25 05:43	02/07/25 16:14	1
Lithium	**0.0045**	**J**	0.0050	0.0020	mg/L		02/07/25 05:43	02/20/25 14:47	1
Molybdenum	**0.00095**	**J**	0.015	0.00086	mg/L		02/07/25 05:43	02/07/25 16:14	1
Selenium	<0.00099		0.0050	0.00099	mg/L		02/07/25 05:43	02/07/25 16:14	1
Thallium	<0.00026		0.0010	0.00026	mg/L		02/07/25 05:43	02/07/25 16:14	1

Method: SW846 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.000080		0.00020	0.000080	mg/L		02/12/25 12:58	02/12/25 18:51	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids (SM 2540C-2011)	**500**		40	40	mg/L			02/12/25 08:14	1

Client Sample ID: MCI-AP1-FD-02

Lab Sample ID: 680-261610-3

Date Collected: 02/05/25 00:00

Matrix: Water

Date Received: 02/06/25 09:40

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**11**		5.0	1.0	mg/L			02/11/25 16:22	5
Fluoride	<0.20		0.50	0.20	mg/L			02/11/25 16:22	5
Sulfate	**140**		5.0	2.0	mg/L			02/11/25 16:22	5

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.00034		0.0020	0.00034	mg/L		02/07/25 05:43	02/07/25 15:24	1
Arsenic	<0.00086		0.0010	0.00086	mg/L		02/07/25 05:43	02/07/25 15:24	1
Barium	**0.056**		0.010	0.00089	mg/L		02/07/25 05:43	02/07/25 15:24	1
Beryllium	<0.00020		0.0025	0.00020	mg/L		02/07/25 05:43	02/07/25 15:24	1
Boron	**1.7**		0.080	0.022	mg/L		02/07/25 05:43	02/07/25 15:24	1
Cadmium	**0.00020**	**J**	0.0025	0.000078	mg/L		02/07/25 05:43	02/07/25 15:24	1
Calcium	**100**		0.50	0.14	mg/L		02/07/25 05:43	02/07/25 15:24	1
Chromium	**0.0024**		0.0020	0.0012	mg/L		02/07/25 05:43	02/07/25 15:24	1
Cobalt	**0.00077**	**J**	0.0025	0.00022	mg/L		02/07/25 05:43	02/07/25 15:24	1
Lead	<0.00021		0.0010	0.00021	mg/L		02/07/25 05:43	02/07/25 15:24	1
Lithium	**0.0096**	**B**	0.0050	0.0020	mg/L		02/07/25 05:43	02/08/25 13:26	1
Molybdenum	<0.00086		0.015	0.00086	mg/L		02/07/25 05:43	02/07/25 15:24	1
Selenium	<0.00099		0.0050	0.00099	mg/L		02/07/25 05:43	02/07/25 15:24	1
Thallium	<0.00026		0.0010	0.00026	mg/L		02/07/25 05:43	02/07/25 15:24	1

Method: SW846 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.000080		0.00020	0.000080	mg/L		02/12/25 12:58	02/12/25 18:42	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids (SM 2540C-2011)	**390**		40	40	mg/L			02/12/25 08:14	1

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

Lab Sample ID: MB 680-875260/2
Matrix: Water
Analysis Batch: 875260

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	<0.20		1.0	0.20	mg/L			02/11/25 10:10	1
Fluoride	<0.040		0.10	0.040	mg/L			02/11/25 10:10	1
Sulfate	<0.40		1.0	0.40	mg/L			02/11/25 10:10	1

Lab Sample ID: LCS 680-875260/3
Matrix: Water
Analysis Batch: 875260

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Chloride	10.0	9.72		mg/L		97	90 - 110
Fluoride	2.00	1.97		mg/L		98	90 - 110
Sulfate	10.0	10.1		mg/L		101	90 - 110

Lab Sample ID: LCSD 680-875260/4
Matrix: Water
Analysis Batch: 875260

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

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chloride	10.0	9.73		mg/L		97	90 - 110	0	15
Fluoride	2.00	1.97		mg/L		99	90 - 110	0	15
Sulfate	10.0	10.2		mg/L		102	90 - 110	1	15

Lab Sample ID: 680-261611-D-1 MS
Matrix: Water
Analysis Batch: 875260

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

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Chloride	10	F1	10.0	18.0	F1	mg/L		79	80 - 120
Fluoride	<0.040	F2	2.00	1.68		mg/L		84	80 - 120
Sulfate	0.68	J F1 F2	10.0	8.60	F1	mg/L		79	80 - 120

Lab Sample ID: 680-261611-D-1 MSD
Matrix: Water
Analysis Batch: 875260

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

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chloride	10	F1	10.0	19.5		mg/L		94	80 - 120	8	15
Fluoride	<0.040	F2	2.00	2.09	F2	mg/L		104	80 - 120	21	15
Sulfate	0.68	J F1 F2	10.0	11.3	F2	mg/L		106	80 - 120	27	15

Method: 6020B - Metals (ICP/MS)

Lab Sample ID: MB 680-874804/1-A
Matrix: Water
Analysis Batch: 874968

Client Sample ID: Method Blank
Prep Type: Total Recoverable
Prep Batch: 874804

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.00034		0.0020	0.00034	mg/L		02/07/25 05:43	02/07/25 15:46	1
Arsenic	<0.00086		0.0010	0.00086	mg/L		02/07/25 05:43	02/07/25 15:46	1
Barium	<0.00089		0.010	0.00089	mg/L		02/07/25 05:43	02/07/25 15:46	1

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

Lab Sample ID: MB 680-874804/1-A
Matrix: Water
Analysis Batch: 874968

Client Sample ID: Method Blank
Prep Type: Total Recoverable
Prep Batch: 874804

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Beryllium	<0.00020		0.0025	0.00020	mg/L		02/07/25 05:43	02/07/25 15:46	1
Boron	<0.022		0.080	0.022	mg/L		02/07/25 05:43	02/07/25 15:46	1
Cadmium	<0.000078		0.0025	0.000078	mg/L		02/07/25 05:43	02/07/25 15:46	1
Calcium	<0.14		0.50	0.14	mg/L		02/07/25 05:43	02/07/25 15:46	1
Chromium	<0.0012		0.0020	0.0012	mg/L		02/07/25 05:43	02/07/25 15:46	1
Cobalt	<0.00022		0.0025	0.00022	mg/L		02/07/25 05:43	02/07/25 15:46	1
Lead	<0.00021		0.0010	0.00021	mg/L		02/07/25 05:43	02/07/25 15:46	1
Molybdenum	<0.00086		0.015	0.00086	mg/L		02/07/25 05:43	02/07/25 15:46	1
Selenium	<0.00099		0.0050	0.00099	mg/L		02/07/25 05:43	02/07/25 15:46	1
Thallium	<0.00026		0.0010	0.00026	mg/L		02/07/25 05:43	02/07/25 15:46	1

Lab Sample ID: MB 680-874804/1-A
Matrix: Water
Analysis Batch: 876557

Client Sample ID: Method Blank
Prep Type: Total Recoverable
Prep Batch: 874804

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lithium	<0.0020		0.0050	0.0020	mg/L		02/07/25 05:43	02/20/25 14:26	1

Lab Sample ID: LCS 680-874804/2-A
Matrix: Water
Analysis Batch: 874968

Client Sample ID: Lab Control Sample
Prep Type: Total Recoverable
Prep Batch: 874804

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Antimony	0.0500	0.0508		mg/L		102	80 - 120
Arsenic	0.100	0.104		mg/L		104	80 - 120
Barium	0.100	0.0998		mg/L		100	80 - 120
Beryllium	0.0500	0.0474		mg/L		95	80 - 120
Boron	0.400	0.419		mg/L		105	80 - 120
Cadmium	0.0500	0.0509		mg/L		102	80 - 120
Calcium	5.00	5.26		mg/L		105	80 - 120
Chromium	0.100	0.106		mg/L		106	80 - 120
Cobalt	0.0500	0.0477		mg/L		95	80 - 120
Lead	0.500	0.525		mg/L		105	80 - 120
Molybdenum	0.100	0.0988		mg/L		99	80 - 120
Selenium	0.100	0.0998		mg/L		100	80 - 120
Thallium	0.0500	0.0518		mg/L		104	80 - 120

Lab Sample ID: LCS 680-874804/2-A
Matrix: Water
Analysis Batch: 876557

Client Sample ID: Lab Control Sample
Prep Type: Total Recoverable
Prep Batch: 874804

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Lithium	0.500	0.551		mg/L		110	80 - 120

Lab Sample ID: 400-270372-C-1-B MS
Matrix: Water
Analysis Batch: 874968

Client Sample ID: Matrix Spike
Prep Type: Total Recoverable
Prep Batch: 874804

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Antimony	<0.00034		0.0500	0.0505		mg/L		101	75 - 125

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

Lab Sample ID: 400-270372-C-1-B MS
Matrix: Water
Analysis Batch: 874968

Client Sample ID: Matrix Spike
Prep Type: Total Recoverable
Prep Batch: 874804

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Arsenic	0.0014		0.100	0.105		mg/L		103	75 - 125
Barium	5.5		0.100	5.07	4	mg/L		-470	75 - 125
Beryllium	<0.00020		0.0500	0.0499		mg/L		100	75 - 125
Boron	0.042	J	0.400	0.467		mg/L		106	75 - 125
Cadmium	<0.000078		0.0500	0.0533		mg/L		107	75 - 125
Calcium	1100		5.00	990	4	mg/L		-2306	75 - 125
Chromium	0.0013	J	0.100	0.106		mg/L		105	75 - 125
Cobalt	0.00030	J	0.0500	0.0509		mg/L		101	75 - 125
Lead	<0.00021		0.500	0.547		mg/L		109	75 - 125
Molybdenum	0.0031	J	0.100	0.111		mg/L		108	75 - 125
Selenium	0.0016	J	0.100	0.101		mg/L		99	75 - 125
Thallium	0.00051	J	0.0500	0.0516		mg/L		102	75 - 125

Lab Sample ID: 400-270372-C-1-B MS
Matrix: Water
Analysis Batch: 876557

Client Sample ID: Matrix Spike
Prep Type: Total Recoverable
Prep Batch: 874804

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Lithium	0.11		0.500	0.640		mg/L		107	75 - 125

Lab Sample ID: 400-270372-C-1-C MSD
Matrix: Water
Analysis Batch: 874968

Client Sample ID: Matrix Spike Duplicate
Prep Type: Total Recoverable
Prep Batch: 874804

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Antimony	<0.00034		0.0500	0.0522		mg/L		104	75 - 125	3	20
Arsenic	0.0014		0.100	0.108		mg/L		107	75 - 125	3	20
Barium	5.5		0.100	5.37	4	mg/L		-180	75 - 125	6	20
Beryllium	<0.00020		0.0500	0.0533		mg/L		107	75 - 125	7	20
Boron	0.042	J	0.400	0.492		mg/L		112	75 - 125	5	20
Cadmium	<0.000078		0.0500	0.0543		mg/L		109	75 - 125	2	20
Calcium	1100		5.00	1060	4	mg/L		-977	75 - 125	6	20
Chromium	0.0013	J	0.100	0.110		mg/L		108	75 - 125	3	20
Cobalt	0.00030	J	0.0500	0.0524		mg/L		104	75 - 125	3	20
Lead	<0.00021		0.500	0.569		mg/L		114	75 - 125	4	20
Molybdenum	0.0031	J	0.100	0.116		mg/L		113	75 - 125	4	20
Selenium	0.0016	J	0.100	0.103		mg/L		101	75 - 125	2	20
Thallium	0.00051	J	0.0500	0.0529		mg/L		105	75 - 125	2	20

Lab Sample ID: 400-270372-C-1-C MSD
Matrix: Water
Analysis Batch: 876557

Client Sample ID: Matrix Spike Duplicate
Prep Type: Total Recoverable
Prep Batch: 874804

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Lithium	0.11		0.500	0.636		mg/L		106	75 - 125	1	20

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

Lab Sample ID: MB 680-874805/1-A
Matrix: Water
Analysis Batch: 874968

Client Sample ID: Method Blank
Prep Type: Total Recoverable
Prep Batch: 874805

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.00034		0.0020	0.00034	mg/L		02/07/25 05:43	02/07/25 14:47	1
Arsenic	<0.00086		0.0010	0.00086	mg/L		02/07/25 05:43	02/07/25 14:47	1
Barium	<0.00089		0.010	0.00089	mg/L		02/07/25 05:43	02/07/25 14:47	1
Beryllium	<0.00020		0.0025	0.00020	mg/L		02/07/25 05:43	02/07/25 14:47	1
Boron	<0.022		0.080	0.022	mg/L		02/07/25 05:43	02/07/25 14:47	1
Cadmium	<0.000078		0.0025	0.000078	mg/L		02/07/25 05:43	02/07/25 14:47	1
Calcium	<0.14		0.50	0.14	mg/L		02/07/25 05:43	02/07/25 14:47	1
Chromium	<0.0012		0.0020	0.0012	mg/L		02/07/25 05:43	02/07/25 14:47	1
Cobalt	<0.00022		0.0025	0.00022	mg/L		02/07/25 05:43	02/07/25 14:47	1
Lead	<0.00021		0.0010	0.00021	mg/L		02/07/25 05:43	02/07/25 14:47	1
Molybdenum	<0.00086		0.015	0.00086	mg/L		02/07/25 05:43	02/07/25 14:47	1
Selenium	<0.00099		0.0050	0.00099	mg/L		02/07/25 05:43	02/07/25 14:47	1
Thallium	<0.00026		0.0010	0.00026	mg/L		02/07/25 05:43	02/07/25 14:47	1

Lab Sample ID: MB 680-874805/1-A
Matrix: Water
Analysis Batch: 875084

Client Sample ID: Method Blank
Prep Type: Total Recoverable
Prep Batch: 874805

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lithium	0.00303	J	0.0050	0.0020	mg/L		02/07/25 05:43	02/08/25 13:05	1

Lab Sample ID: LCS 680-874805/2-A
Matrix: Water
Analysis Batch: 874968

Client Sample ID: Lab Control Sample
Prep Type: Total Recoverable
Prep Batch: 874805

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Antimony	0.0500	0.0508		mg/L		102	80 - 120
Arsenic	0.100	0.102		mg/L		102	80 - 120
Barium	0.100	0.0999		mg/L		100	80 - 120
Beryllium	0.0500	0.0516		mg/L		103	80 - 120
Boron	0.400	0.408		mg/L		102	80 - 120
Cadmium	0.0500	0.0515		mg/L		103	80 - 120
Calcium	5.00	5.18		mg/L		104	80 - 120
Chromium	0.100	0.106		mg/L		106	80 - 120
Cobalt	0.0500	0.0493		mg/L		99	80 - 120
Lead	0.500	0.517		mg/L		103	80 - 120
Molybdenum	0.100	0.101		mg/L		101	80 - 120
Selenium	0.100	0.0951		mg/L		95	80 - 120
Thallium	0.0500	0.0500		mg/L		100	80 - 120

Lab Sample ID: LCS 680-874805/2-A
Matrix: Water
Analysis Batch: 875084

Client Sample ID: Lab Control Sample
Prep Type: Total Recoverable
Prep Batch: 874805

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Lithium	0.500	0.491		mg/L		98	80 - 120

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

Lab Sample ID: 400-270372-C-2-B MS
Matrix: Water
Analysis Batch: 874968

Client Sample ID: Matrix Spike
Prep Type: Total Recoverable
Prep Batch: 874805

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Antimony	0.00066	J	0.0500	0.0509		mg/L		101	75 - 125
Arsenic	0.0022		0.100	0.104		mg/L		101	75 - 125
Barium	5.8		0.100	5.77	4	mg/L		-60	75 - 125
Beryllium	0.0019	J	0.0500	0.0522		mg/L		101	75 - 125
Boron	0.042	J	0.400	0.471		mg/L		107	75 - 125
Cadmium	0.023		0.0500	0.0736		mg/L		102	75 - 125
Calcium	1900		5.00	1840	4	mg/L		-152	75 - 125
Chromium	0.016		0.100	0.119		mg/L		103	75 - 125
Cobalt	0.010		0.0500	0.0619		mg/L		104	75 - 125
Lead	0.0014		0.500	0.539		mg/L		108	75 - 125
Molybdenum	<0.00086		0.100	0.112		mg/L		112	75 - 125
Selenium	0.0029	J	0.100	0.0996		mg/L		97	75 - 125
Thallium	0.0075		0.0500	0.0561		mg/L		97	75 - 125

Lab Sample ID: 400-270372-C-2-B MS
Matrix: Water
Analysis Batch: 875084

Client Sample ID: Matrix Spike
Prep Type: Total Recoverable
Prep Batch: 874805

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Lithium	0.086	B	0.500	0.559		mg/L		95	75 - 125

Lab Sample ID: 400-270372-C-2-C MSD
Matrix: Water
Analysis Batch: 874968

Client Sample ID: Matrix Spike Duplicate
Prep Type: Total Recoverable
Prep Batch: 874805

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Antimony	0.00066	J	0.0500	0.0514		mg/L		102	75 - 125	1	20
Arsenic	0.0022		0.100	0.104		mg/L		102	75 - 125	0	20
Barium	5.8		0.100	5.74	4	mg/L		-90	75 - 125	1	20
Beryllium	0.0019	J	0.0500	0.0541		mg/L		104	75 - 125	3	20
Boron	0.042	J	0.400	0.475		mg/L		108	75 - 125	1	20
Cadmium	0.023		0.0500	0.0737		mg/L		102	75 - 125	0	20
Calcium	1900		5.00	1820	4	mg/L		-646	75 - 125	1	20
Chromium	0.016		0.100	0.119		mg/L		103	75 - 125	0	20
Cobalt	0.010		0.0500	0.0619		mg/L		103	75 - 125	0	20
Lead	0.0014		0.500	0.541		mg/L		108	75 - 125	0	20
Molybdenum	<0.00086		0.100	0.113		mg/L		113	75 - 125	1	20
Selenium	0.0029	J	0.100	0.100		mg/L		97	75 - 125	1	20
Thallium	0.0075		0.0500	0.0566		mg/L		98	75 - 125	1	20

Lab Sample ID: 400-270372-C-2-C MSD
Matrix: Water
Analysis Batch: 875084

Client Sample ID: Matrix Spike Duplicate
Prep Type: Total Recoverable
Prep Batch: 874805

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Lithium	0.086	B	0.500	0.596		mg/L		102	75 - 125	7	20

Method: 7470A - Mercury (CVAA)

Lab Sample ID: MB 680-875499/1-A
Matrix: Water
Analysis Batch: 875621

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 875499

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.000080		0.00020	0.000080	mg/L		02/12/25 12:58	02/12/25 18:02	1

Lab Sample ID: LCS 680-875499/2-A
Matrix: Water
Analysis Batch: 875621

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 875499

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Mercury			0.00250	0.00252		mg/L		101	80 - 120		

Lab Sample ID: 400-270604-J-1-C MS
Matrix: Water
Analysis Batch: 875621

Client Sample ID: Matrix Spike
Prep Type: Total/NA
Prep Batch: 875499

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits		
Mercury	<0.000080		0.00100	0.00103		mg/L		103	80 - 120		

Lab Sample ID: 400-270604-J-1-D MSD
Matrix: Water
Analysis Batch: 875621

Client Sample ID: Matrix Spike Duplicate
Prep Type: Total/NA
Prep Batch: 875499

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Mercury	<0.000080		0.00100	0.00101		mg/L		101	80 - 120	2	20

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

Lab Sample ID: MB 680-875415/1
Matrix: Water
Analysis Batch: 875415

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	<10		10	10	mg/L			02/12/25 08:14	1

Lab Sample ID: LCS 680-875415/2
Matrix: Water
Analysis Batch: 875415

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			2440	2380		mg/L		98	80 - 120		

Lab Sample ID: LCSD 680-875415/3
Matrix: Water
Analysis Batch: 875415

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

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Total Dissolved Solids			2440	2370		mg/L		97	80 - 120	1	25

Client: Southern Company
Project/Site: Plant McIntosh - Ash Pond 1

Job ID: 680-261610-1

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

Lab Sample ID: 680-261610-1 DU
Matrix: Water
Analysis Batch: 875415

Client Sample ID: MCI-MGWC-2
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier		DU Result	DU Qualifier	Unit	D			RPD	RPD Limit
Total Dissolved Solids	420			396	F3	mg/L				6	5

Lab Sample ID: 680-261610-2 DU
Matrix: Water
Analysis Batch: 875415

Client Sample ID: MCI-MGWC-19
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier		DU Result	DU Qualifier	Unit	D			RPD	RPD Limit
Total Dissolved Solids	500			476		mg/L				4	5

HPLC/IC

Analysis Batch: 875260

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-261610-1	MCI-MGWC-2	Total/NA	Water	300.0-1993 R2.1	
680-261610-2	MCI-MGWC-19	Total/NA	Water	300.0-1993 R2.1	
680-261610-3	MCI-AP1-FD-02	Total/NA	Water	300.0-1993 R2.1	
MB 680-875260/2	Method Blank	Total/NA	Water	300.0-1993 R2.1	
LCS 680-875260/3	Lab Control Sample	Total/NA	Water	300.0-1993 R2.1	
LCSD 680-875260/4	Lab Control Sample Dup	Total/NA	Water	300.0-1993 R2.1	
680-261611-D-1 MS	Matrix Spike	Total/NA	Water	300.0-1993 R2.1	
680-261611-D-1 MSD	Matrix Spike Duplicate	Total/NA	Water	300.0-1993 R2.1	

Metals

Prep Batch: 874804

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-261610-2	MCI-MGWC-19	Total Recoverable	Water	3005A	
MB 680-874804/1-A	Method Blank	Total Recoverable	Water	3005A	
LCS 680-874804/2-A	Lab Control Sample	Total Recoverable	Water	3005A	
400-270372-C-1-B MS	Matrix Spike	Total Recoverable	Water	3005A	
400-270372-C-1-C MSD	Matrix Spike Duplicate	Total Recoverable	Water	3005A	

Prep Batch: 874805

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-261610-1	MCI-MGWC-2	Total Recoverable	Water	3005A	
680-261610-3	MCI-AP1-FD-02	Total Recoverable	Water	3005A	
MB 680-874805/1-A	Method Blank	Total Recoverable	Water	3005A	
LCS 680-874805/2-A	Lab Control Sample	Total Recoverable	Water	3005A	
400-270372-C-2-B MS	Matrix Spike	Total Recoverable	Water	3005A	
400-270372-C-2-C MSD	Matrix Spike Duplicate	Total Recoverable	Water	3005A	

Analysis Batch: 874968

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-261610-1	MCI-MGWC-2	Total Recoverable	Water	6020B	874805
680-261610-2	MCI-MGWC-19	Total Recoverable	Water	6020B	874804
680-261610-3	MCI-AP1-FD-02	Total Recoverable	Water	6020B	874805
MB 680-874804/1-A	Method Blank	Total Recoverable	Water	6020B	874804
MB 680-874805/1-A	Method Blank	Total Recoverable	Water	6020B	874805
LCS 680-874804/2-A	Lab Control Sample	Total Recoverable	Water	6020B	874804
LCS 680-874805/2-A	Lab Control Sample	Total Recoverable	Water	6020B	874805
400-270372-C-1-B MS	Matrix Spike	Total Recoverable	Water	6020B	874804
400-270372-C-1-C MSD	Matrix Spike Duplicate	Total Recoverable	Water	6020B	874804
400-270372-C-2-B MS	Matrix Spike	Total Recoverable	Water	6020B	874805
400-270372-C-2-C MSD	Matrix Spike Duplicate	Total Recoverable	Water	6020B	874805

Analysis Batch: 875084

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-261610-1	MCI-MGWC-2	Total Recoverable	Water	6020B	874805
680-261610-3	MCI-AP1-FD-02	Total Recoverable	Water	6020B	874805
MB 680-874805/1-A	Method Blank	Total Recoverable	Water	6020B	874805
LCS 680-874805/2-A	Lab Control Sample	Total Recoverable	Water	6020B	874805
400-270372-C-2-B MS	Matrix Spike	Total Recoverable	Water	6020B	874805
400-270372-C-2-C MSD	Matrix Spike Duplicate	Total Recoverable	Water	6020B	874805

QC Association Summary

Client: Southern Company
Project/Site: Plant McIntosh - Ash Pond 1

Job ID: 680-261610-1

Metals

Prep Batch: 875499

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-261610-1	MCI-MGWC-2	Total/NA	Water	7470A	
680-261610-2	MCI-MGWC-19	Total/NA	Water	7470A	
680-261610-3	MCI-AP1-FD-02	Total/NA	Water	7470A	
MB 680-875499/1-A	Method Blank	Total/NA	Water	7470A	
LCS 680-875499/2-A	Lab Control Sample	Total/NA	Water	7470A	
400-270604-J-1-C MS	Matrix Spike	Total/NA	Water	7470A	
400-270604-J-1-D MSD	Matrix Spike Duplicate	Total/NA	Water	7470A	

Analysis Batch: 875621

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-261610-1	MCI-MGWC-2	Total/NA	Water	7470A	875499
680-261610-2	MCI-MGWC-19	Total/NA	Water	7470A	875499
680-261610-3	MCI-AP1-FD-02	Total/NA	Water	7470A	875499
MB 680-875499/1-A	Method Blank	Total/NA	Water	7470A	875499
LCS 680-875499/2-A	Lab Control Sample	Total/NA	Water	7470A	875499
400-270604-J-1-C MS	Matrix Spike	Total/NA	Water	7470A	875499
400-270604-J-1-D MSD	Matrix Spike Duplicate	Total/NA	Water	7470A	875499

Analysis Batch: 876557

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-261610-2	MCI-MGWC-19	Total Recoverable	Water	6020B	874804
MB 680-874804/1-A	Method Blank	Total Recoverable	Water	6020B	874804
LCS 680-874804/2-A	Lab Control Sample	Total Recoverable	Water	6020B	874804
400-270372-C-1-B MS	Matrix Spike	Total Recoverable	Water	6020B	874804
400-270372-C-1-C MSD	Matrix Spike Duplicate	Total Recoverable	Water	6020B	874804

General Chemistry

Analysis Batch: 875415

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-261610-1	MCI-MGWC-2	Total/NA	Water	2540C-2011	
680-261610-2	MCI-MGWC-19	Total/NA	Water	2540C-2011	
680-261610-3	MCI-AP1-FD-02	Total/NA	Water	2540C-2011	
MB 680-875415/1	Method Blank	Total/NA	Water	2540C-2011	
LCS 680-875415/2	Lab Control Sample	Total/NA	Water	2540C-2011	
LCSD 680-875415/3	Lab Control Sample Dup	Total/NA	Water	2540C-2011	
680-261610-1 DU	MCI-MGWC-2	Total/NA	Water	2540C-2011	
680-261610-2 DU	MCI-MGWC-19	Total/NA	Water	2540C-2011	

Lab Chronicle

Client: Southern Company
Project/Site: Plant McIntosh - Ash Pond 1

Job ID: 680-261610-1

Client Sample ID: MCI-MGWC-2

Date Collected: 02/05/25 10:57
Date Received: 02/06/25 09:40

Lab Sample ID: 680-261610-1

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	300.0-1993 R2.1		10	5 mL	5 mL	875260	02/11/25 16:02	AF	EET SAV
	Instrument ID: CICP									
Total Recoverable	Prep	3005A			25 mL	125 mL	874805	02/07/25 05:43	RR	EET SAV
Total Recoverable	Analysis	6020B		1			875084	02/08/25 13:30	BWR	EET SAV
	Instrument ID: ICPMSC									
Total Recoverable	Prep	3005A			25 mL	125 mL	874805	02/07/25 05:43	RR	EET SAV
Total Recoverable	Analysis	6020B		1			874968	02/07/25 15:40	BWR	EET SAV
	Instrument ID: ICPMSG									
Total/NA	Prep	7470A			50 mL	50 mL	875499	02/12/25 12:58	MG	EET SAV
Total/NA	Analysis	7470A		1			875621	02/12/25 18:49	BJB	EET SAV
	Instrument ID: QuickTrace3									
Total/NA	Analysis	2540C-2011		1	50 mL	200 mL	875415	02/12/25 08:14	PG	EET SAV
	Instrument ID: NOEQUIP									

Client Sample ID: MCI-MGWC-19

Date Collected: 02/05/25 12:41
Date Received: 02/06/25 09:40

Lab Sample ID: 680-261610-2

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	300.0-1993 R2.1		10	5 mL	5 mL	875260	02/11/25 16:12	AF	EET SAV
	Instrument ID: CICP									
Total Recoverable	Prep	3005A			25 mL	125 mL	874804	02/07/25 05:43	RR	EET SAV
Total Recoverable	Analysis	6020B		1			876557	02/20/25 14:47	BWR	EET SAV
	Instrument ID: ICPMSC									
Total Recoverable	Prep	3005A			25 mL	125 mL	874804	02/07/25 05:43	RR	EET SAV
Total Recoverable	Analysis	6020B		1			874968	02/07/25 16:14	BWR	EET SAV
	Instrument ID: ICPMSG									
Total/NA	Prep	7470A			50 mL	50 mL	875499	02/12/25 12:58	MG	EET SAV
Total/NA	Analysis	7470A		1			875621	02/12/25 18:51	BJB	EET SAV
	Instrument ID: QuickTrace3									
Total/NA	Analysis	2540C-2011		1	50 mL	200 mL	875415	02/12/25 08:14	PG	EET SAV
	Instrument ID: NOEQUIP									

Client Sample ID: MCI-AP1-FD-02

Date Collected: 02/05/25 00:00
Date Received: 02/06/25 09:40

Lab Sample ID: 680-261610-3

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	300.0-1993 R2.1		5	5 mL	5 mL	875260	02/11/25 16:22	AF	EET SAV
	Instrument ID: CICP									
Total Recoverable	Prep	3005A			25 mL	125 mL	874805	02/07/25 05:43	RR	EET SAV
Total Recoverable	Analysis	6020B		1			875084	02/08/25 13:26	BWR	EET SAV
	Instrument ID: ICPMSC									
Total Recoverable	Prep	3005A			25 mL	125 mL	874805	02/07/25 05:43	RR	EET SAV
Total Recoverable	Analysis	6020B		1			874968	02/07/25 15:24	BWR	EET SAV
	Instrument ID: ICPMSG									

Lab Chronicle

Client: Southern Company
Project/Site: Plant McIntosh - Ash Pond 1

Job ID: 680-261610-1

Client Sample ID: MCI-AP1-FD-02

Date Collected: 02/05/25 00:00
Date Received: 02/06/25 09:40

Lab Sample ID: 680-261610-3

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	7470A			50 mL	50 mL	875499	02/12/25 12:58	MG	EET SAV
Total/NA	Analysis	7470A		1			875621	02/12/25 18:42	BJB	EET SAV
	Instrument ID: QuickTrace3									
Total/NA	Analysis	2540C-2011		1	50 mL	200 mL	875415	02/12/25 08:14	PG	EET SAV
	Instrument ID: NOEQUIP									

Laboratory References:

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

Accreditation/Certification Summary

Client: Southern Company
Job ID: 680-261610-1
Project/Site: Plant McIntosh - Ash Pond 1

Laboratory: Eurofins Savannah

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

Authority	Program	Identification Number	Expiration Date
Florida	NELAP	E87052	06-30-25
Georgia	State	E87052	06-30-25

Method Summary

Client: Southern Company
Project/Site: Plant McIntosh - Ash Pond 1

Job ID: 680-261610-1

Method	Method Description	Protocol	Laboratory
300.0-1993 R2.1	Anions, Ion Chromatography	MCAWW	EET SAV
6020B	Metals (ICP/MS)	SW846	EET SAV
7470A	Mercury (CVAA)	SW846	EET SAV
2540C-2011	Total Dissolved Solids (Dried at 180 °C)	SM	EET SAV
3005A	Preparation, Total Recoverable or Dissolved Metals	SW846	EET SAV
7470A	Preparation, Mercury	SW846	EET SAV

Protocol References:

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

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

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

Laboratory References:

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

Eurofins TestAmerica, Savannah
5102 LaRoche Avenue
Savannah, GA 31404
Phone (912) 354-7858 Fax (912) 352-0165

Chain of Custody Record

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Client Information	Sampler: T. Goble / S May ACC	Lab PM: Fuller, David	Carrier Tracking No(s):	COC No:
Client Contact: SCS Contacts	Phone: 770-594-5998	E-Mail: david.fuller@et.eurofinsus.com		Page: 1 of 1
Company: GA Power				Job #:
Address: 241 Ralph McGill Blvd SE	Due Date Requested			
City: Atlanta	TAT Requested (days)			
State, Zip: GA, 30308				
Phone: 404-506-7116(Tel)	Lab Project #: 68027747			
Email: SCS Contacts / ACC Contacts	PO #: GPC82130-0002			
Project Name: Plant McIntosh - Ash Pond 1	Project #:			
Site: Georgia	SSOW#:			

Analysis Requested

Preservation Codes

A - HCL	M - Hexane
B - NaOH	N - None
C - Zn Acetate	O - AsNaO2
D - Nitric Acid	P - Na2O4S
E - NaHSO4	Q - Na2SO3
F - MeOH	R - Na2S2O3
G - Amchlor	S - H2SO4
H - Ascorbic Acid	T - TSP Dodecahydrate
I - Ice	U - Acetone
J - DI Water	V - MCAA
K - EDTA	W - pH 4-5
L - EDA	Z - other (specify)

Other:

Task_Code: MCI-CCR-ASSMT-2025S1

Special Instructions/Note: Full APP III + APP IV

Sample Identification	Sample Date (mm/dd/yy)	Sample Time (hhmm)	Sample Type (C=comp, G=grab)	Matrix (WG=ground water WS=surface water WQ=quality control)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	App. III Metals (B, Ca)	Cl, F, SO_4, TDS (EPA 300.0 & SM 2540C)	App IV Metals (Sb, As, Ba, Be, Cd, Cr, Co, Pb, Li, Hg, Mo, Se, Tl) (EPA 6020/7470)	Radium 226 & 228 (SW-846 9315/9320)	Total Number of containers
			Preservation Code:				D	I	D	D	
MCI- MGWC-2	02/05/25	1057	G	WG	N	N	✓	✓	✓	✓	5
MCI- MGWC-19	02/05/25	1241	G	WG	N	N	✓	✓	✓	✓	5
MCI- AP1-FD-02	02/05/25	—	G	WG	N	N	✓	✓	✓	✓	5
MCI-			G			N					
MCI-			G			N					
MCI-			G			N					
MCI-			G			N					
MCI-			G			N					
MCI-			G			N					
MCI-			G			N					
MCI-			G			N					

680-261610 Chain of Custody

Possible Hazard Identification
☐ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown ☐ Radiological

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
☐ 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	Company	Received by	Date/Time	Company
1	Taylor Goble	2-5-25/2035	ACC		2-5-25/2035	ACC
2		2-6-25/0940	ACC		2/6/25 940	
3						

Custody Seals Intact: △ Yes △ No

Custody Seal No

Cooler Temperature(s) °C and Other Remarks: 3.0/3.0

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

Chain of Custody Record

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Client Information (Sub Contract Lab)	Sampler: N/A	Lab PM: Fuller, David	Carrier Tracking No(s): N/A	COC No: 680-794022.1
Client Contact: Shipping/Receiving	Phone: N/A	E-Mail: David.Fuller@et.eurofinsus.com	State of Origin: Georgia	Page: Page 1 of 1
Company: TestAmerica Laboratories, Inc.		Accreditations Required (See note): NELAP - Florida; State - Georgia		Job #: 680-261610-1
Address: 13715 Rider Trail North, ,	Due Date Requested: 2/18/2025			
City: Earth City	TAT Requested (days): N/A			
State, Zip: MO, 63045				
Phone: 314-298-8566(Tel) 314-298-8757(Fax)	PO #: N/A			
Email: N/A	WO #: N/A			
Project Name: Plant McIntosh - Ash Pond 1	Project #: 68027747			
Site: N/A	SSOW#: N/A			

Analysis Requested

Preservation Codes: -

Other: N/A

Sample Identification - Client ID (Lab ID)	Sample Date	Sample Time	Sample Type (C=comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	9315_Ra226/PrecSep_21 Radium-226	9320_Ra228/PrecSep_0 Radium-228	Ra226Ra228_GFPC/ Combined Radium-226 and Radium-228	Total Number of containers	Special Instructions/Note:
			Preservation Code:								
MCI-MGWC-2 (680-261610-1)	2/5/25	10:57 Eastern	G	Water			X	X	X	2	
MCI-MGWC-19 (680-261610-2)	2/5/25	12:41 Eastern	G	Water			X	X	X	2	
MCI-AP1-FD-02 (680-261610-3)	2/5/25	Eastern	G	Water			X	X	X	2	

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

Possible Hazard Identification: Unconfirmed	Sample Disposal (A fee may be assessed if samples are retained longer than 1 month): ☐ Return To Client ☐ Disposal By Lab ☐ Archive For _____ Months
Deliverable Requested: I, II, III, IV, Other (specify) Primary Deliverable Rank: 2	Special Instructions/QC Requirements:

Empty Kit Relinquished by:	Date:	Time:	Method of Shipment:

	Date/Time	Company	Received by	Date/Time	Company
Relinquished by:	2/10/25 1500		Received by:	0845 FEB 11 2025	ETA-SC
Relinquished by:	Date/Time:	Company	Received by: Cheyenne Forrest	Date/Time:	Company
Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company

Custody Seals Intact: Δ Yes Δ No	Custody Seal No.:	Cooler Temperature(s) °C and Other Remarks:

Ver: 10/10/2024

3/14/2025 (Rev. 1)

Login Sample Receipt Checklist

Client: Southern Company

Job Number: 680-261610-1

Login Number: 261610
List Number: 1
Creator: Munro, Caroline

List Source: Eurofins Savannah

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

This receipt checklist is generated for all samples received in this Login. It may not be applicable to all Jobs associated with this Login.

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ANALYTICAL REPORT

PREPARED FOR

Attn: Kevin Stephenson
Southern Company
241 Ralph McGill Blvd SE
B10185
Atlanta, Georgia 30308

Generated 3/10/2025 5:35:59 PM

JOB DESCRIPTION

Plant McIntosh - Ash Pond 1

JOB NUMBER

680-261610-3

Eurofins Savannah
5102 LaRoche Avenue
Savannah GA 31404

See page two for job notes and contact information.

my EOL

Job Notes

This report may not be reproduced except in full, and with written approval from the laboratory. The results relate only to the samples tested. For questions please contact the Project Manager at the e-mail address or telephone number listed on this page.

The test results in this report relate only to the samples as received by the laboratory and will meet all requirements of the methodology, with any exceptions noted. This report shall not be reproduced except in full, without the express written approval of the laboratory. All questions should be directed to the Eurofins Environment Testing Southeast, LLC Project Manager.

Authorization



Generated
3/10/2025 5:35:59 PM

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

Definitions/Glossary

Client: Southern Company
Job ID: 680-261610-3
Project/Site: Plant McIntosh - Ash Pond 1

Qualifiers

Rad

Qualifier	Qualifier Description
U	Result is less than the sample detection limit.

Glossary

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

Sample Summary

Client: Southern Company
Job ID: 680-261610-3
Project/Site: Plant McIntosh - Ash Pond 1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
680-261610-1	MCI-MGWC-2	Water	02/05/25 10:57	02/06/25 09:40
680-261610-2	MCI-MGWC-19	Water	02/05/25 12:41	02/06/25 09:40
680-261610-3	MCI-AP1-FD-02	Water	02/05/25 00:00	02/06/25 09:40

Job ID: 680-261610-3 — Eurofins Savannah

Job Narrative
680-261610-3

Analytical test results meet all requirements of the associated regulatory program listed on the Accreditation/Certification Summary Page unless otherwise noted under the individual analysis. Data qualifiers and/or narrative comments are included to explain any exceptions, if applicable.

- Matrix QC may not be reported if insufficient sample is provided or site-specific QC samples were not submitted. In these situations, to demonstrate precision and accuracy at a batch level, a LCS/LCSD may be performed, unless otherwise specified in the method.
- Surrogate and/or isotope dilution analyte recoveries (if applicable) which are outside of the QC window are confirmed unless attributed to a dilution or otherwise noted in the narrative.

Receipt
The samples were received on 2/6/2025 9:40 AM. Unless otherwise noted below, the samples arrived in good condition, and, where required, properly preserved and on ice. The temperature of the cooler at receipt time was 3.0°C.

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

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

Client Sample ID: MCI-MGWC-2

Date Collected: 02/05/25 10:57
Date Received: 02/06/25 09:40

Lab Sample ID: 680-261610-1

Matrix: Water

Method: SW846 9315 - Radium-226 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	0.217	U	0.185	0.186	1.00	0.275	pCi/L	02/13/25 07:57	03/07/25 09:55	1

Carrier	*%Yield*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Ba Carrier	*77.9*		*30 - 110*	*02/13/25 07:57*	*03/07/25 09:55*	*1*

Method: SW846 9320 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	0.111	U	0.415	0.415	1.00	0.743	pCi/L	02/13/25 08:01	03/06/25 12:11	1

Carrier	*%Yield*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Ba Carrier	*77.9*		*30 - 110*	*02/13/25 08:01*	*03/06/25 12:11*	*1*
Y Carrier	*74.8*		*30 - 110*	*02/13/25 08:01*	*03/06/25 12:11*	*1*

Method: TAL-STL Ra226_Ra228 - Combined Radium-226 and Radium-228

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Combined Radium 226 + 228	0.328	U	0.454	0.455	5.00	0.743	pCi/L		03/10/25 11:35	1

Client Sample ID: MCI-MGWC-19

Date Collected: 02/05/25 12:41
Date Received: 02/06/25 09:40

Lab Sample ID: 680-261610-2

Matrix: Water

Method: SW846 9315 - Radium-226 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	**0.608**		0.282	0.288	1.00	0.359	pCi/L	02/13/25 07:57	03/07/25 09:55	1

Carrier	*%Yield*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Ba Carrier	*83.6*		*30 - 110*	*02/13/25 07:57*	*03/07/25 09:55*	*1*

Method: SW846 9320 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	0.251	U	0.427	0.427	1.00	0.730	pCi/L	02/13/25 08:01	03/06/25 12:06	1

Carrier	*%Yield*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Ba Carrier	*83.6*		*30 - 110*	*02/13/25 08:01*	*03/06/25 12:06*	*1*
Y Carrier	*77.4*		*30 - 110*	*02/13/25 08:01*	*03/06/25 12:06*	*1*

Client: Southern Company
Project/Site: Plant McIntosh - Ash Pond 1

Job ID: 680-261610-3

Client Sample ID: MCI-MGWC-19

Lab Sample ID: 680-261610-2

Date Collected: 02/05/25 12:41
Matrix: Water
Date Received: 02/06/25 09:40

Method: TAL-STL Ra226_Ra228 - Combined Radium-226 and Radium-228

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Combined Radium 226 + 228	0.859		0.512	0.515	5.00	0.730	pCi/L		03/10/25 11:35	1

Client Sample ID: MCI-AP1-FD-02

Lab Sample ID: 680-261610-3

Date Collected: 02/05/25 00:00
Matrix: Water
Date Received: 02/06/25 09:40

Method: SW846 9315 - Radium-226 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	0.309		0.214	0.216	1.00	0.305	pCi/L	02/13/25 07:57	03/07/25 09:49	1

Carrier	*%Yield*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Ba Carrier	*82.1*		*30 - 110*	*02/13/25 07:57*	*03/07/25 09:49*	*1*

Method: SW846 9320 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	0.173	U	0.443	0.443	1.00	0.777	pCi/L	02/13/25 08:01	03/06/25 12:06	1

Carrier	*%Yield*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Ba Carrier	*82.1*		*30 - 110*	*02/13/25 08:01*	*03/06/25 12:06*	*1*
Y Carrier	*77.8*		*30 - 110*	*02/13/25 08:01*	*03/06/25 12:06*	*1*

Method: TAL-STL Ra226_Ra228 - Combined Radium-226 and Radium-228

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Combined Radium 226 + 228	0.482	U	0.492	0.493	5.00	0.777	pCi/L		03/10/25 11:35	1

Tracer/Carrier Summary

Client: Southern Company
Project/Site: Plant McIntosh - Ash Pond 1

Job ID: 680-261610-3

Method: 9315 - Radium-226 (GFPC)

Matrix: Water

Prep Type: Total/NA

		Percent Yield (Acceptance Limits)
		Ba
Lab Sample ID	Client Sample ID	(30-110)
680-261610-1	MCI-MGWC-2	77.9
680-261610-1 DU	MCI-MGWC-2	90.0
680-261610-2	MCI-MGWC-19	83.6
680-261610-3	MCI-AP1-FD-02	82.1
LCS 160-702736/2-A	Lab Control Sample	86.3
MB 160-702736/1-A	Method Blank	85.3

Tracer/Carrier Legend

Ba = Ba Carrier

Method: 9320 - Radium-228 (GFPC)

Matrix: Water

Prep Type: Total/NA

		Percent Yield (Acceptance Limits)	
		Ba	Y
Lab Sample ID	Client Sample ID	(30-110)	(30-110)
680-261610-1	MCI-MGWC-2	77.9	74.8
680-261610-1 DU	MCI-MGWC-2	90.0	82.6
680-261610-2	MCI-MGWC-19	83.6	77.4
680-261610-3	MCI-AP1-FD-02	82.1	77.8
LCS 160-702740/2-A	Lab Control Sample	86.3	78.9
MB 160-702740/1-A	Method Blank	85.3	75.9

Tracer/Carrier Legend

Ba = Ba Carrier

Y = Y Carrier

Method: 9315 - Radium-226 (GFPC)

Lab Sample ID: MB 160-702736/1-A
Matrix: Water
Analysis Batch: 706560

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 702736

Analyte	MB Result	MB Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	0.05537	U	0.139	0.139	1.00	0.257	pCi/L	02/13/25 07:57	03/07/25 09:55	1

Carrier	*MB %Yield*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Ba Carrier	*85.3*		*30 - 110*	*02/13/25 07:57*	*03/07/25 09:55*	*1*

Lab Sample ID: LCS 160-702736/2-A
Matrix: Water
Analysis Batch: 706560

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 702736

Analyte			Spike Added	LCS Result	LCS Qual	Total Uncert. (2σ+/-)	RL	MDC	Unit	%Rec	%Rec Limits		
Radium-226			9.58	8.205		1.10	1.00	0.308	pCi/L	86	75 - 125		

Carrier	*LCS %Yield*	*LCS Qualifier*	*Limits*
Ba Carrier	*86.3*		*30 - 110*

Lab Sample ID: 680-261610-1 DU
Matrix: Water
Analysis Batch: 706560

Client Sample ID: MCI-MGWC-2
Prep Type: Total/NA
Prep Batch: 702736

Analyte	Sample Result	Sample Qual		DU Result	DU Qual	Total Uncert. (2σ+/-)	RL	MDC	Unit			RER	RER Limit
Radium-226	0.217	U		0.2773		0.191	1.00	0.264	pCi/L			0.16	1

Carrier	*DU %Yield*	*DU Qualifier*	*Limits*
Ba Carrier	*90.0*		*30 - 110*

Method: 9320 - Radium-228 (GFPC)

Lab Sample ID: MB 160-702740/1-A
Matrix: Water
Analysis Batch: 706383

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 702740

Analyte	MB Result	MB Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	-0.1634	U	0.329	0.329	1.00	0.660	pCi/L	02/13/25 08:01	03/06/25 12:10	1

Carrier	*MB %Yield*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Ba Carrier	*85.3*		*30 - 110*	*02/13/25 08:01*	*03/06/25 12:10*	*1*
Y Carrier	*75.9*		*30 - 110*	*02/13/25 08:01*	*03/06/25 12:10*	*1*

Method: 9320 - Radium-228 (GFPC) (Continued)

Lab Sample ID: LCS 160-702740/2-A
Matrix: Water
Analysis Batch: 706383

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 702740

Analyte			Spike Added	LCS Result	LCS Qual	Total Uncert. (2σ+/-)	RL	MDC	Unit	%Rec	%Rec Limits		
Radium-228			8.04	8.591		1.25	1.00	0.547	pCi/L	107	75 - 125		

Carrier	*LCS %Yield*	*LCS Qualifier*	*Limits*
Ba Carrier	*86.3*		*30 - 110*
Y Carrier	*78.9*		*30 - 110*

Lab Sample ID: 680-261610-1 DU
Matrix: Water
Analysis Batch: 706383

Client Sample ID: MCI-MGWC-2
Prep Type: Total/NA
Prep Batch: 702740

Analyte	Sample Result	Sample Qual		DU Result	DU Qual	Total Uncert. (2σ+/-)	RL	MDC	Unit			RER	RER Limit
Radium-228	0.111	U		0.5096	U	0.349	1.00	0.513	pCi/L			0.52	1

Carrier	*DU %Yield*	*DU Qualifier*	*Limits*
Ba Carrier	*90.0*		*30 - 110*
Y Carrier	*82.6*		*30 - 110*

QC Association Summary

Client: Southern Company
Project/Site: Plant McIntosh - Ash Pond 1

Job ID: 680-261610-3

Rad

Prep Batch: 702736

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-261610-1	MCI-MGWC-2	Total/NA	Water	PrecSep-21	
680-261610-2	MCI-MGWC-19	Total/NA	Water	PrecSep-21	
680-261610-3	MCI-AP1-FD-02	Total/NA	Water	PrecSep-21	
MB 160-702736/1-A	Method Blank	Total/NA	Water	PrecSep-21	
LCS 160-702736/2-A	Lab Control Sample	Total/NA	Water	PrecSep-21	
680-261610-1 DU	MCI-MGWC-2	Total/NA	Water	PrecSep-21	

Prep Batch: 702740

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-261610-1	MCI-MGWC-2	Total/NA	Water	PrecSep_0	
680-261610-2	MCI-MGWC-19	Total/NA	Water	PrecSep_0	
680-261610-3	MCI-AP1-FD-02	Total/NA	Water	PrecSep_0	
MB 160-702740/1-A	Method Blank	Total/NA	Water	PrecSep_0	
LCS 160-702740/2-A	Lab Control Sample	Total/NA	Water	PrecSep_0	
680-261610-1 DU	MCI-MGWC-2	Total/NA	Water	PrecSep_0	

Lab Chronicle

Client: Southern Company
Job ID: 680-261610-3
Project/Site: Plant McIntosh - Ash Pond 1

Client Sample ID: MCI-MGWC-2
Lab Sample ID: 680-261610-1
Date Collected: 02/05/25 10:57
Matrix: Water
Date Received: 02/06/25 09:40

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	PrecSep-21			1001.38 mL	1.0 g	702736	02/13/25 07:57	OGC	EET SL
Total/NA	Analysis	9315		1			706560	03/07/25 09:55	SWS	EET SL
	Instrument ID: GFPCBLUE									
Total/NA	Prep	PrecSep_0			1001.38 mL	1.0 g	702740	02/13/25 08:01	OGC	EET SL
Total/NA	Analysis	9320		1			706383	03/06/25 12:11	SWS	EET SL
	Instrument ID: GFPCRED									
Total/NA	Analysis	Ra226_Ra228		1			706941	03/10/25 11:35	SCB	EET SL
	Instrument ID: NOEQUIP									

Client Sample ID: MCI-MGWC-19
Lab Sample ID: 680-261610-2
Date Collected: 02/05/25 12:41
Matrix: Water
Date Received: 02/06/25 09:40

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	PrecSep-21			1002.14 mL	1.0 g	702736	02/13/25 07:57	OGC	EET SL
Total/NA	Analysis	9315		1	1.0 mL	1.0 mL	706560	03/07/25 09:55	SWS	EET SL
	Instrument ID: GFPCBLUE									
Total/NA	Prep	PrecSep_0			1002.14 mL	1.0 g	702740	02/13/25 08:01	OGC	EET SL
Total/NA	Analysis	9320		1			706419	03/06/25 12:06	SWS	EET SL
	Instrument ID: GFPCPROTEAN									
Total/NA	Analysis	Ra226_Ra228		1			706941	03/10/25 11:35	SCB	EET SL
	Instrument ID: NOEQUIP									

Client Sample ID: MCI-AP1-FD-02
Lab Sample ID: 680-261610-3
Date Collected: 02/05/25 00:00
Matrix: Water
Date Received: 02/06/25 09:40

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	PrecSep-21			1001.59 mL	1.0 g	702736	02/13/25 07:57	OGC	EET SL
Total/NA	Analysis	9315		1	1.0 mL	1.0 mL	706561	03/07/25 09:49	SWS	EET SL
	Instrument ID: GFPCPURPLE									
Total/NA	Prep	PrecSep_0			1001.59 mL	1.0 g	702740	02/13/25 08:01	OGC	EET SL
Total/NA	Analysis	9320		1			706419	03/06/25 12:06	SWS	EET SL
	Instrument ID: GFPCPROTEAN									
Total/NA	Analysis	Ra226_Ra228		1			706941	03/10/25 11:35	SCB	EET SL
	Instrument ID: NOEQUIP									

Laboratory References:

EET SL = Eurofins St. Louis, 13715 Rider Trail North, Earth City, MO 63045, TEL (314)298-8566

Accreditation/Certification Summary

Client: Southern Company
Job ID: 680-261610-3
Project/Site: Plant McIntosh - Ash Pond 1

Laboratory: Eurofins St. Louis

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

Authority	Program	Identification Number	Expiration Date
Florida	NELAP	E87689	06-30-25

Method Summary

Client: Southern Company
Project/Site: Plant McIntosh - Ash Pond 1

Job ID: 680-261610-3

Method	Method Description	Protocol	Laboratory
9315	Radium-226 (GFPC)	SW846	EET SL
9320	Radium-228 (GFPC)	SW846	EET SL
Ra226_Ra228	Combined Radium-226 and Radium-228	TAL-STL	EET SL
PrecSep_0	Preparation, Precipitate Separation	None	EET SL
PrecSep-21	Preparation, Precipitate Separation (21-Day In-Growth)	None	EET SL

Protocol References:

None = None

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

TAL-STL = TestAmerica Laboratories, St. Louis, Facility Standard Operating Procedure.

Laboratory References:

EET SL = Eurofins St. Louis, 13715 Rider Trail North, Earth City, MO 63045, TEL (314)298-8566

Eurofins TestAmerica, Savannah
5102 LaRoche Avenue
Savannah, GA 31404
Phone (912) 354-7858 Fax (912) 352-0165

Chain of Custody Record

eurofins | Environment Testing America

Client Information	Sampler: T. Goble / S May ACC	Lab PM: Fuller, David	Carrier Tracking No(s):	COC No:
Client Contact: SCS Contacts	Phone: 770-594-5998	E-Mail: david.fuller@et.eurofinsus.com		Page: 1 of 1
Company: GA Power				Job #:
Address: 241 Ralph McGill Blvd SE	Due Date Requested			
City: Atlanta	TAT Requested (days)			
State, Zip: GA, 30308				
Phone: 404-506-7116(Tel)	Lab Project #: 68027747			
Email: SCS Contacts / ACC Contacts	PO #: GPC82130-0002			
Project Name: Plant McIntosh - Ash Pond 1	Project #:			
Site: Georgia	SSOW#:			

Analysis Requested

Preservation Codes

A - HCL	M - Hexane
B - NaOH	N - None
C - Zn Acetate	O - AsNaO2
D - Nitric Acid	P - Na2O4S
E - NaHSO4	Q - Na2SO3
F - MeOH	R - Na2S2O3
G - Amchlor	S - H2SO4
H - Ascorbic Acid	T - TSP Dodecahydrate
I - Ice	U - Acetone
J - DI Water	V - MCAA
K - EDTA	W - pH 4-5
L - EDA	Z - other (specify)

Other:

Task_Code: MCI-CCR-ASSMT-2025S1

Special Instructions/Note: Full APP III + APP IV

Sample Identification	Sample Date (mm/dd/yy)	Sample Time (hhmm)	Sample Type (C=comp, G=grab)	Matrix (WG=ground water WS=surface water WQ=quality control)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	App. III Metals (B, Ca)	Cl, F, SO_4, TDS (EPA 300.0 & SM 2540C)	App IV Metals (Sb, As, Ba, Be, Cd, Cr, Co, Pb, Li, Hg, Mo, Se, Tl) (EPA 6020/7470)	Radium 226 & 228 (SW-846 9315/9320)	Total Number of containers
			Preservation Code:				D	I	D	D	
MCI- MGWC-2	02/05/25	1057	G	WG	N	N	✓	✓	✓	✓	5
MCI- MGWC-19	02/05/25	1241	G	WG	N	N	✓	✓	✓	✓	5
MCI- AP1-FD-02	02/05/25	—	G	WG	N	N	✓	✓	✓	✓	5
MCI-			G			N					
MCI-			G			N					
MCI-			G			N					
MCI-			G			N					
MCI-			G			N					
MCI-			G			N					
MCI-			G			N					
MCI-			G			N					

680-261610 Chain of Custody

Possible Hazard Identification
☐ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown ☐ Radiological

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
☐ 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	Company	Received by	Date/Time	Company
1	Taylor Goble	2-5-25/2035	ACC		2-5-25/2035	ACC
2		2-6-25/0940	ACC		2/6/25 940	
3						

Custody Seals Intact: △ Yes △ No

Custody Seal No

Cooler Temperature(s) °C and Other Remarks: 3.0/3.0

Login Sample Receipt Checklist

Client: Southern Company

Job Number: 680-261610-3

Login Number: 261610

List Source: Eurofins Savannah

List Number: 1

Creator: Munro, Caroline

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

This receipt checklist is generated for all samples received in this Login. It may not be applicable to all Jobs associated with this Login.

Login Sample Receipt Checklist

Client: Southern Company

Job Number: 680-261610-3

Login Number: 261610
List Number: 2
Creator: Forrest, Cheyenne L

List Source: Eurofins St. Louis
List Creation: 02/11/25 01:03 PM

Question	Answer	Comment
Radioactivity wasn't checked or is </= background as measured by a survey meter.	True	
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.	N/A	
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?	N/A	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	N/A	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	

This receipt checklist is generated for all samples received in this Login. It may not be applicable to all Jobs associated with this Login.

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ANALYTICAL REPORT

PREPARED FOR

Attn: Kevin Stephenson
Southern Company
241 Ralph McGill Blvd SE
B10185
Atlanta, Georgia 30308

Generated 2/18/2025 6:55:07 PM

JOB DESCRIPTION

Plant McIntosh Ash Pond 1

JOB NUMBER

680-261520-2

Eurofins Savannah
5102 LaRoche Avenue
Savannah GA 31404

See page two for job notes and contact information.

my EOL

Job Notes

This report may not be reproduced except in full, and with written approval from the laboratory. The results relate only to the samples tested. For questions please contact the Project Manager at the e-mail address or telephone number listed on this page.

The test results in this report relate only to the samples as received by the laboratory and will meet all requirements of the methodology, with any exceptions noted. This report shall not be reproduced except in full, without the express written approval of the laboratory. All questions should be directed to the Eurofins Environment Testing Southeast, LLC Project Manager.

Authorization



Generated
2/18/2025 6:55:07 PM

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

Definitions/Glossary

Client: Southern Company
Job ID: 680-261520-2
Project/Site: Plant McIntosh Ash Pond 1

Qualifiers

General Chemistry

Qualifier	Qualifier Description
F3	Duplicate RPD exceeds the control limit

Glossary

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

Sample Summary

Client: Southern Company
Job ID: 680-261520-2
Project/Site: Plant McIntosh Ash Pond 1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
680-261520-1	MCI-MGWA-5	Water	02/03/25 16:32	02/05/25 09:41
680-261520-2	MCI-MGWA-6	Water	02/03/25 16:26	02/05/25 09:41
680-261520-3	MCI-MGWA-6A	Water	02/04/25 09:50	02/05/25 09:41
680-261520-4	MCI-MGWA-10	Water	02/04/25 09:38	02/05/25 09:41
680-261520-5	MCI-MGWA-11	Water	02/04/25 10:49	02/05/25 09:41
680-261520-6	MCI-MGWC-3	Water	02/04/25 11:36	02/05/25 09:41
680-261520-7	MCI-MGWC-1	Water	02/04/25 12:22	02/05/25 09:41
680-261520-8	MCI-MGWC-8	Water	02/04/25 14:24	02/05/25 09:41
680-261520-9	MCI-MGWC-12	Water	02/04/25 14:30	02/05/25 09:41
680-261520-13	MCI-MGWC-7	Water	02/04/25 15:32	02/05/25 09:41
680-261520-14	MCI-MGWC-20	Water	02/04/25 16:15	02/05/25 09:41

Job ID: 680-261520-2 — Eurofins Savannah

Job Narrative
680-261520-2

Analytical test results meet all requirements of the associated regulatory program listed on the Accreditation/Certification Summary Page unless otherwise noted under the individual analysis. Data qualifiers and/or narrative comments are included to explain any exceptions, if applicable.

- Matrix QC may not be reported if insufficient sample is provided or site-specific QC samples were not submitted. In these situations, to demonstrate precision and accuracy at a batch level, a LCS/LCSD may be performed, unless otherwise specified in the method.
- Surrogate and/or isotope dilution analyte recoveries (if applicable) which are outside of the QC window are confirmed unless attributed to a dilution or otherwise noted in the narrative.

Receipt
The samples were received on 2/5/2025 9:41 AM. Unless otherwise noted below, the samples arrived in good condition, and, where required, properly preserved and on ice. The temperatures of the 5 coolers at receipt time were 1.8°C, 2.1°C, 2.4°C, 3.2°C and 4.4°C.

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

General Chemistry
Method 2320B: The sample duplicate precision for the following sample associated with analytical batch 680-875026 was outside control limits: (680-261365-E-6 DU). The associated Laboratory Control Sample / Laboratory Control Sample Duplicate (LCS/LCSD) precision met acceptance criteria.

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

Client: Southern Company
Project/Site: Plant McIntosh Ash Pond 1

Job ID: 680-261520-2

Client Sample ID: MCI-MGWA-5

Lab Sample ID: 680-261520-1

Date Collected: 02/03/25 16:32

Matrix: Water

Date Received: 02/05/25 09:41

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Potassium	1.1		0.50	0.044	mg/L		02/06/25 06:25	02/14/25 12:37	1
Magnesium	12		0.50	0.023	mg/L		02/06/25 06:25	02/14/25 12:37	1
Sodium	7.4		0.50	0.20	mg/L		02/06/25 06:25	02/14/25 12:37	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Alkalinity as CaCO3 (SM 2320B-2011)	110		5.0	5.0	mg/L			02/06/25 18:41	1
Bicarbonate Alkalinity as CaCO3 (SM 2320B-2011)	110		5.0	5.0	mg/L			02/06/25 18:41	1
Carbonate Alkalinity as CaCO3 (SM 2320B-2011)	<5.0		5.0	5.0	mg/L			02/06/25 18:41	1

Client Sample ID: MCI-MGWA-6

Lab Sample ID: 680-261520-2

Date Collected: 02/03/25 16:26

Matrix: Water

Date Received: 02/05/25 09:41

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Potassium	0.63		0.50	0.044	mg/L		02/06/25 06:25	02/14/25 12:05	1
Magnesium	2.7		0.50	0.023	mg/L		02/06/25 06:25	02/14/25 12:05	1
Sodium	4.3		0.50	0.20	mg/L		02/06/25 06:25	02/14/25 12:05	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Alkalinity as CaCO3 (SM 2320B-2011)	250		5.0	5.0	mg/L			02/06/25 18:21	1
Bicarbonate Alkalinity as CaCO3 (SM 2320B-2011)	250		5.0	5.0	mg/L			02/06/25 18:21	1
Carbonate Alkalinity as CaCO3 (SM 2320B-2011)	<5.0		5.0	5.0	mg/L			02/06/25 18:21	1

Client Sample ID: MCI-MGWA-6A

Lab Sample ID: 680-261520-3

Date Collected: 02/04/25 09:50

Matrix: Water

Date Received: 02/05/25 09:41

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Potassium	0.62		0.50	0.044	mg/L		02/06/25 06:25	02/14/25 11:59	1
Magnesium	2.7		0.50	0.023	mg/L		02/06/25 06:25	02/14/25 11:59	1
Sodium	4.2		0.50	0.20	mg/L		02/06/25 06:25	02/14/25 11:59	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Alkalinity as CaCO3 (SM 2320B-2011)	250		5.0	5.0	mg/L			02/06/25 18:10	1
Bicarbonate Alkalinity as CaCO3 (SM 2320B-2011)	250		5.0	5.0	mg/L			02/06/25 18:10	1
Carbonate Alkalinity as CaCO3 (SM 2320B-2011)	<5.0		5.0	5.0	mg/L			02/06/25 18:10	1

Client: Southern Company
Project/Site: Plant McIntosh Ash Pond 1

Job ID: 680-261520-2

Client Sample ID: MCI-MGWA-10

Lab Sample ID: 680-261520-4

Date Collected: 02/04/25 09:38

Matrix: Water

Date Received: 02/05/25 09:41

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Potassium	1.1		0.50	0.044	mg/L		02/06/25 06:25	02/14/25 12:19	1
Magnesium	1.0		0.50	0.023	mg/L		02/06/25 06:25	02/14/25 12:19	1
Sodium	6.0		0.50	0.20	mg/L		02/06/25 06:25	02/14/25 12:19	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Alkalinity as CaCO3 (SM 2320B-2011)	13		5.0	5.0	mg/L			02/06/25 17:59	1
Bicarbonate Alkalinity as CaCO3 (SM 2320B-2011)	13		5.0	5.0	mg/L			02/06/25 17:59	1
Carbonate Alkalinity as CaCO3 (SM 2320B-2011)	<5.0		5.0	5.0	mg/L			02/06/25 17:59	1

Client Sample ID: MCI-MGWA-11

Lab Sample ID: 680-261520-5

Date Collected: 02/04/25 10:49

Matrix: Water

Date Received: 02/05/25 09:41

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Potassium	2.4		0.50	0.044	mg/L		02/06/25 06:25	02/14/25 12:03	1
Magnesium	14		0.50	0.023	mg/L		02/06/25 06:25	02/14/25 12:03	1
Sodium	12		0.50	0.20	mg/L		02/06/25 06:25	02/14/25 12:03	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Alkalinity as CaCO3 (SM 2320B-2011)	160		5.0	5.0	mg/L			02/06/25 17:32	1
Bicarbonate Alkalinity as CaCO3 (SM 2320B-2011)	160		5.0	5.0	mg/L			02/06/25 17:32	1
Carbonate Alkalinity as CaCO3 (SM 2320B-2011)	<5.0		5.0	5.0	mg/L			02/06/25 17:32	1

Client Sample ID: MCI-MGWC-3

Lab Sample ID: 680-261520-6

Date Collected: 02/04/25 11:36

Matrix: Water

Date Received: 02/05/25 09:41

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Potassium	1.5		0.50	0.044	mg/L		02/06/25 06:25	02/14/25 12:29	1
Magnesium	5.7		0.50	0.023	mg/L		02/06/25 06:25	02/14/25 12:29	1
Sodium	15		0.50	0.20	mg/L		02/06/25 06:25	02/14/25 12:29	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Alkalinity as CaCO3 (SM 2320B-2011)	200		5.0	5.0	mg/L			02/06/25 18:31	1
Bicarbonate Alkalinity as CaCO3 (SM 2320B-2011)	200		5.0	5.0	mg/L			02/06/25 18:31	1
Carbonate Alkalinity as CaCO3 (SM 2320B-2011)	<5.0		5.0	5.0	mg/L			02/06/25 18:31	1

Client Sample ID: MCI-MGWC-1

Lab Sample ID: 680-261520-7

Date Collected: 02/04/25 12:22

Matrix: Water

Date Received: 02/05/25 09:41

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Potassium	2.2		0.50	0.044	mg/L		02/06/25 06:25	02/14/25 12:35	1
Magnesium	6.5		0.50	0.023	mg/L		02/06/25 06:25	02/14/25 12:35	1
Sodium	22		0.50	0.20	mg/L		02/06/25 06:25	02/14/25 12:35	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Alkalinity as CaCO3 (SM 2320B-2011)	190		5.0	5.0	mg/L			02/06/25 15:06	1
Bicarbonate Alkalinity as CaCO3 (SM 2320B-2011)	190		5.0	5.0	mg/L			02/06/25 15:06	1
Carbonate Alkalinity as CaCO3 (SM 2320B-2011)	<5.0		5.0	5.0	mg/L			02/06/25 15:06	1

Client Sample ID: MCI-MGWC-8

Lab Sample ID: 680-261520-8

Date Collected: 02/04/25 14:24

Matrix: Water

Date Received: 02/05/25 09:41

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Potassium	2.2		0.50	0.044	mg/L		02/06/25 06:25	02/14/25 12:21	1
Magnesium	24		0.50	0.023	mg/L		02/06/25 06:25	02/14/25 12:21	1
Sodium	28		0.50	0.20	mg/L		02/06/25 06:25	02/14/25 12:21	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Alkalinity as CaCO3 (SM 2320B-2011)	110		5.0	5.0	mg/L			02/06/25 17:42	1
Bicarbonate Alkalinity as CaCO3 (SM 2320B-2011)	110		5.0	5.0	mg/L			02/06/25 17:42	1
Carbonate Alkalinity as CaCO3 (SM 2320B-2011)	<5.0		5.0	5.0	mg/L			02/06/25 17:42	1

Client Sample ID: MCI-MGWC-12

Lab Sample ID: 680-261520-9

Date Collected: 02/04/25 14:30

Matrix: Water

Date Received: 02/05/25 09:41

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Potassium	2.3		0.50	0.044	mg/L		02/06/25 06:25	02/14/25 12:17	1
Magnesium	14		0.50	0.023	mg/L		02/06/25 06:25	02/14/25 12:17	1
Sodium	13		0.50	0.20	mg/L		02/06/25 06:25	02/14/25 12:17	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Alkalinity as CaCO3 (SM 2320B-2011)	140		5.0	5.0	mg/L			02/06/25 17:52	1
Bicarbonate Alkalinity as CaCO3 (SM 2320B-2011)	140		5.0	5.0	mg/L			02/06/25 17:52	1
Carbonate Alkalinity as CaCO3 (SM 2320B-2011)	<5.0		5.0	5.0	mg/L			02/06/25 17:52	1

Client: Southern Company
Job ID: 680-261520-2
Project/Site: Plant McIntosh Ash Pond 1

Client Sample ID: MCI-MGWC-7
Lab Sample ID: 680-261520-13
Date Collected: 02/04/25 15:32
Matrix: Water
Date Received: 02/05/25 09:41

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Potassium	4.1		0.50	0.044	mg/L		02/06/25 06:25	02/14/25 12:25	1
Magnesium	5.4		0.50	0.023	mg/L		02/06/25 06:25	02/14/25 12:25	1
Sodium	44		0.50	0.20	mg/L		02/06/25 06:25	02/14/25 12:25	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Alkalinity as CaCO3 (SM 2320B-2011)	37		5.0	5.0	mg/L			02/06/25 17:13	1
Bicarbonate Alkalinity as CaCO3 (SM 2320B-2011)	37		5.0	5.0	mg/L			02/06/25 17:13	1
Carbonate Alkalinity as CaCO3 (SM 2320B-2011)	<5.0		5.0	5.0	mg/L			02/06/25 17:13	1

Client Sample ID: MCI-MGWC-20
Lab Sample ID: 680-261520-14
Date Collected: 02/04/25 16:15
Matrix: Water
Date Received: 02/05/25 09:41

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Potassium	3.2		0.50	0.044	mg/L		02/06/25 06:25	02/14/25 12:27	1
Magnesium	15		0.50	0.023	mg/L		02/06/25 06:25	02/14/25 12:27	1
Sodium	31		0.50	0.20	mg/L		02/06/25 06:25	02/14/25 12:27	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Alkalinity as CaCO3 (SM 2320B-2011)	57		5.0	5.0	mg/L			02/06/25 14:56	1
Bicarbonate Alkalinity as CaCO3 (SM 2320B-2011)	57		5.0	5.0	mg/L			02/06/25 14:56	1
Carbonate Alkalinity as CaCO3 (SM 2320B-2011)	<5.0		5.0	5.0	mg/L			02/06/25 14:56	1

Method: 6020B - Metals (ICP/MS)

Lab Sample ID: MB 680-874637/1-A
Matrix: Water
Analysis Batch: 875841

Client Sample ID: Method Blank
Prep Type: Total Recoverable
Prep Batch: 874637

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Potassium	<0.044		0.50	0.044	mg/L		02/06/25 06:25	02/14/25 11:47	1
Magnesium	<0.023		0.50	0.023	mg/L		02/06/25 06:25	02/14/25 11:47	1
Sodium	<0.20		0.50	0.20	mg/L		02/06/25 06:25	02/14/25 11:47	1

Lab Sample ID: LCS 680-874637/2-A
Matrix: Water
Analysis Batch: 875841

Client Sample ID: Lab Control Sample
Prep Type: Total Recoverable
Prep Batch: 874637

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Potassium	7.00	7.37		mg/L		105	80 - 120
Magnesium	5.00	5.22		mg/L		104	80 - 120
Sodium	5.00	5.24		mg/L		105	80 - 120

Lab Sample ID: 680-261528-C-9-B MS
Matrix: Water
Analysis Batch: 875841

Client Sample ID: Matrix Spike
Prep Type: Dissolved
Prep Batch: 874637

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Potassium	0.37	J	7.00	7.98		mg/L		109	75 - 125
Magnesium	0.68		5.00	6.18		mg/L		110	75 - 125
Sodium	1.2		5.00	6.75		mg/L		112	75 - 125

Lab Sample ID: 680-261528-C-9-C MSD
Matrix: Water
Analysis Batch: 875841

Client Sample ID: Matrix Spike Duplicate
Prep Type: Dissolved
Prep Batch: 874637

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Potassium	0.37	J	7.00	7.92		mg/L		108	75 - 125	1	20
Magnesium	0.68		5.00	6.12		mg/L		109	75 - 125	1	20
Sodium	1.2		5.00	6.63		mg/L		109	75 - 125	2	20

Method: 2320B-2011 - Alkalinity, Total

Lab Sample ID: MB 680-875026/4
Matrix: Water
Analysis Batch: 875026

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Alkalinity as CaCO3	<5.0		5.0	5.0	mg/L			02/06/25 11:24	1
Bicarbonate Alkalinity as CaCO3	<5.0		5.0	5.0	mg/L			02/06/25 11:24	1
Carbonate Alkalinity as CaCO3	<5.0		5.0	5.0	mg/L			02/06/25 11:24	1

Lab Sample ID: LCS 680-875026/6
Matrix: Water
Analysis Batch: 875026

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Total Alkalinity as CaCO3	250	248		mg/L		99	90 - 112

Method: 2320B-2011 - Alkalinity, Total (Continued)

Lab Sample ID: LCSD 680-875026/31
Matrix: Water
Analysis Batch: 875026

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

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Total Alkalinity as CaCO3			250	256		mg/L		103	90 - 112	3	30

Lab Sample ID: 680-261365-E-6 DU
Matrix: Water
Analysis Batch: 875026

Client Sample ID: Duplicate
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier		DU Result	DU Qualifier	Unit	D			RPD	RPD Limit
Total Alkalinity as CaCO3	32			21.4	F3	mg/L				39	30
Bicarbonate Alkalinity as CaCO3	32			21.4	F3	mg/L				39	30
Carbonate Alkalinity as CaCO3	<5.0			<5.0		mg/L				NC	30

Lab Sample ID: MB 680-875028/4
Matrix: Water
Analysis Batch: 875028

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Alkalinity as CaCO3	<5.0		5.0	5.0	mg/L			02/06/25 16:48	1
Bicarbonate Alkalinity as CaCO3	<5.0		5.0	5.0	mg/L			02/06/25 16:48	1
Carbonate Alkalinity as CaCO3	<5.0		5.0	5.0	mg/L			02/06/25 16:48	1

Lab Sample ID: LCS 680-875028/6
Matrix: Water
Analysis Batch: 875028

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

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Total Alkalinity as CaCO3			250	243		mg/L		97	90 - 112		

Lab Sample ID: LCSD 680-875028/31
Matrix: Water
Analysis Batch: 875028

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

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Total Alkalinity as CaCO3			250	261		mg/L		104	90 - 112	7	30

Lab Sample ID: 680-261520-13 DU
Matrix: Water
Analysis Batch: 875028

Client Sample ID: MCI-MGWC-7
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier		DU Result	DU Qualifier	Unit	D			RPD	RPD Limit
Total Alkalinity as CaCO3	37			33.9		mg/L				8	30
Bicarbonate Alkalinity as CaCO3	37			33.9		mg/L				8	30
Carbonate Alkalinity as CaCO3	<5.0			<5.0		mg/L				NC	30

QC Association Summary

Client: Southern Company
Project/Site: Plant McIntosh Ash Pond 1

Job ID: 680-261520-2

Metals

Prep Batch: 874637

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-261520-1	MCI-MGWA-5	Total Recoverable	Water	3005A	
680-261520-2	MCI-MGWA-6	Total Recoverable	Water	3005A	
680-261520-3	MCI-MGWA-6A	Total Recoverable	Water	3005A	
680-261520-4	MCI-MGWA-10	Total Recoverable	Water	3005A	
680-261520-5	MCI-MGWA-11	Total Recoverable	Water	3005A	
680-261520-6	MCI-MGWC-3	Total Recoverable	Water	3005A	
680-261520-7	MCI-MGWC-1	Total Recoverable	Water	3005A	
680-261520-8	MCI-MGWC-8	Total Recoverable	Water	3005A	
680-261520-9	MCI-MGWC-12	Total Recoverable	Water	3005A	
680-261520-13	MCI-MGWC-7	Total Recoverable	Water	3005A	
680-261520-14	MCI-MGWC-20	Total Recoverable	Water	3005A	
MB 680-874637/1-A	Method Blank	Total Recoverable	Water	3005A	
LCS 680-874637/2-A	Lab Control Sample	Total Recoverable	Water	3005A	
680-261528-C-9-B MS	Matrix Spike	Dissolved	Water	3005A	
680-261528-C-9-C MSD	Matrix Spike Duplicate	Dissolved	Water	3005A	

Analysis Batch: 875841

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-261520-1	MCI-MGWA-5	Total Recoverable	Water	6020B	874637
680-261520-2	MCI-MGWA-6	Total Recoverable	Water	6020B	874637
680-261520-3	MCI-MGWA-6A	Total Recoverable	Water	6020B	874637
680-261520-4	MCI-MGWA-10	Total Recoverable	Water	6020B	874637
680-261520-5	MCI-MGWA-11	Total Recoverable	Water	6020B	874637
680-261520-6	MCI-MGWC-3	Total Recoverable	Water	6020B	874637
680-261520-7	MCI-MGWC-1	Total Recoverable	Water	6020B	874637
680-261520-8	MCI-MGWC-8	Total Recoverable	Water	6020B	874637
680-261520-9	MCI-MGWC-12	Total Recoverable	Water	6020B	874637
680-261520-13	MCI-MGWC-7	Total Recoverable	Water	6020B	874637
680-261520-14	MCI-MGWC-20	Total Recoverable	Water	6020B	874637
MB 680-874637/1-A	Method Blank	Total Recoverable	Water	6020B	874637
LCS 680-874637/2-A	Lab Control Sample	Total Recoverable	Water	6020B	874637
680-261528-C-9-B MS	Matrix Spike	Dissolved	Water	6020B	874637
680-261528-C-9-C MSD	Matrix Spike Duplicate	Dissolved	Water	6020B	874637

General Chemistry

Analysis Batch: 875026

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-261520-7	MCI-MGWC-1	Total/NA	Water	2320B-2011	
680-261520-14	MCI-MGWC-20	Total/NA	Water	2320B-2011	
MB 680-875026/4	Method Blank	Total/NA	Water	2320B-2011	
LCS 680-875026/6	Lab Control Sample	Total/NA	Water	2320B-2011	
LCSD 680-875026/31	Lab Control Sample Dup	Total/NA	Water	2320B-2011	
680-261365-E-6 DU	Duplicate	Total/NA	Water	2320B-2011	

Analysis Batch: 875028

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-261520-1	MCI-MGWA-5	Total/NA	Water	2320B-2011	
680-261520-2	MCI-MGWA-6	Total/NA	Water	2320B-2011	
680-261520-3	MCI-MGWA-6A	Total/NA	Water	2320B-2011	
680-261520-4	MCI-MGWA-10	Total/NA	Water	2320B-2011	

General Chemistry (Continued)

Analysis Batch: 875028 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-261520-5	MCI-MGWA-11	Total/NA	Water	2320B-2011	
680-261520-6	MCI-MGWC-3	Total/NA	Water	2320B-2011	
680-261520-8	MCI-MGWC-8	Total/NA	Water	2320B-2011	
680-261520-9	MCI-MGWC-12	Total/NA	Water	2320B-2011	
680-261520-13	MCI-MGWC-7	Total/NA	Water	2320B-2011	
MB 680-875028/4	Method Blank	Total/NA	Water	2320B-2011	
LCS 680-875028/6	Lab Control Sample	Total/NA	Water	2320B-2011	
LCSD 680-875028/31	Lab Control Sample Dup	Total/NA	Water	2320B-2011	
680-261520-13 DU	MCI-MGWC-7	Total/NA	Water	2320B-2011	

Lab Chronicle

Client: Southern Company
Project/Site: Plant McIntosh Ash Pond 1

Job ID: 680-261520-2

Client Sample ID: MCI-MGWA-5

Lab Sample ID: 680-261520-1

Date Collected: 02/03/25 16:32

Matrix: Water

Date Received: 02/05/25 09:41

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total Recoverable	Prep	3005A			25 mL	125 mL	874637	02/06/25 06:25	RR	EET SAV
Total Recoverable	Analysis	6020B		1			875841	02/14/25 12:37	BWR	EET SAV
	Instrument ID: ICPMSG									
Total/NA	Analysis	2320B-2011		1			875028	02/06/25 18:41	PG	EET SAV
	Instrument ID: MANTECH 2									

Client Sample ID: MCI-MGWA-6

Lab Sample ID: 680-261520-2

Date Collected: 02/03/25 16:26

Matrix: Water

Date Received: 02/05/25 09:41

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total Recoverable	Prep	3005A			25 mL	125 mL	874637	02/06/25 06:25	RR	EET SAV
Total Recoverable	Analysis	6020B		1			875841	02/14/25 12:05	BWR	EET SAV
	Instrument ID: ICPMSG									
Total/NA	Analysis	2320B-2011		1			875028	02/06/25 18:21	PG	EET SAV
	Instrument ID: MANTECH 2									

Client Sample ID: MCI-MGWA-6A

Lab Sample ID: 680-261520-3

Date Collected: 02/04/25 09:50

Matrix: Water

Date Received: 02/05/25 09:41

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total Recoverable	Prep	3005A			25 mL	125 mL	874637	02/06/25 06:25	RR	EET SAV
Total Recoverable	Analysis	6020B		1			875841	02/14/25 11:59	BWR	EET SAV
	Instrument ID: ICPMSG									
Total/NA	Analysis	2320B-2011		1			875028	02/06/25 18:10	PG	EET SAV
	Instrument ID: MANTECH 2									

Client Sample ID: MCI-MGWA-10

Lab Sample ID: 680-261520-4

Date Collected: 02/04/25 09:38

Matrix: Water

Date Received: 02/05/25 09:41

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total Recoverable	Prep	3005A			25 mL	125 mL	874637	02/06/25 06:25	RR	EET SAV
Total Recoverable	Analysis	6020B		1			875841	02/14/25 12:19	BWR	EET SAV
	Instrument ID: ICPMSG									
Total/NA	Analysis	2320B-2011		1			875028	02/06/25 17:59	PG	EET SAV
	Instrument ID: MANTECH 2									

Lab Chronicle

Client: Southern Company
Project/Site: Plant McIntosh Ash Pond 1

Job ID: 680-261520-2

Client Sample ID: MCI-MGWA-11

Lab Sample ID: 680-261520-5

Date Collected: 02/04/25 10:49

Matrix: Water

Date Received: 02/05/25 09:41

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total Recoverable	Prep	3005A			25 mL	125 mL	874637	02/06/25 06:25	RR	EET SAV
Total Recoverable	Analysis	6020B		1			875841	02/14/25 12:03	BWR	EET SAV
	Instrument ID: ICPMSG									
Total/NA	Analysis	2320B-2011		1			875028	02/06/25 17:32	PG	EET SAV
	Instrument ID: MANTECH 2									

Client Sample ID: MCI-MGWC-3

Lab Sample ID: 680-261520-6

Date Collected: 02/04/25 11:36

Matrix: Water

Date Received: 02/05/25 09:41

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total Recoverable	Prep	3005A			25 mL	125 mL	874637	02/06/25 06:25	RR	EET SAV
Total Recoverable	Analysis	6020B		1			875841	02/14/25 12:29	BWR	EET SAV
	Instrument ID: ICPMSG									
Total/NA	Analysis	2320B-2011		1			875028	02/06/25 18:31	PG	EET SAV
	Instrument ID: MANTECH 2									

Client Sample ID: MCI-MGWC-1

Lab Sample ID: 680-261520-7

Date Collected: 02/04/25 12:22

Matrix: Water

Date Received: 02/05/25 09:41

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total Recoverable	Prep	3005A			25 mL	125 mL	874637	02/06/25 06:25	RR	EET SAV
Total Recoverable	Analysis	6020B		1			875841	02/14/25 12:35	BWR	EET SAV
	Instrument ID: ICPMSG									
Total/NA	Analysis	2320B-2011		1			875026	02/06/25 15:06	PG	EET SAV
	Instrument ID: MANTECH 2									

Client Sample ID: MCI-MGWC-8

Lab Sample ID: 680-261520-8

Date Collected: 02/04/25 14:24

Matrix: Water

Date Received: 02/05/25 09:41

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total Recoverable	Prep	3005A			25 mL	125 mL	874637	02/06/25 06:25	RR	EET SAV
Total Recoverable	Analysis	6020B		1			875841	02/14/25 12:21	BWR	EET SAV
	Instrument ID: ICPMSG									
Total/NA	Analysis	2320B-2011		1			875028	02/06/25 17:42	PG	EET SAV
	Instrument ID: MANTECH 2									

Lab Chronicle

Client: Southern Company
Project/Site: Plant McIntosh Ash Pond 1

Job ID: 680-261520-2

Client Sample ID: MCI-MGWC-12

Lab Sample ID: 680-261520-9

Date Collected: 02/04/25 14:30
Matrix: Water
Date Received: 02/05/25 09:41

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total Recoverable	Prep	3005A			25 mL	125 mL	874637	02/06/25 06:25	RR	EET SAV
Total Recoverable	Analysis	6020B		1			875841	02/14/25 12:17	BWR	EET SAV
	Instrument ID: ICPMSG									
Total/NA	Analysis	2320B-2011		1			875028	02/06/25 17:52	PG	EET SAV
	Instrument ID: MANTECH 2									

Client Sample ID: MCI-MGWC-7

Lab Sample ID: 680-261520-13

Date Collected: 02/04/25 15:32
Matrix: Water
Date Received: 02/05/25 09:41

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total Recoverable	Prep	3005A			25 mL	125 mL	874637	02/06/25 06:25	RR	EET SAV
Total Recoverable	Analysis	6020B		1			875841	02/14/25 12:25	BWR	EET SAV
	Instrument ID: ICPMSG									
Total/NA	Analysis	2320B-2011		1			875028	02/06/25 17:13	PG	EET SAV
	Instrument ID: MANTECH 2									

Client Sample ID: MCI-MGWC-20

Lab Sample ID: 680-261520-14

Date Collected: 02/04/25 16:15
Matrix: Water
Date Received: 02/05/25 09:41

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total Recoverable	Prep	3005A			25 mL	125 mL	874637	02/06/25 06:25	RR	EET SAV
Total Recoverable	Analysis	6020B		1			875841	02/14/25 12:27	BWR	EET SAV
	Instrument ID: ICPMSG									
Total/NA	Analysis	2320B-2011		1			875026	02/06/25 14:56	PG	EET SAV
	Instrument ID: MANTECH 2									

Laboratory References:

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

Accreditation/Certification Summary

Client: Southern Company
Job ID: 680-261520-2
Project/Site: Plant McIntosh Ash Pond 1

Laboratory: Eurofins Savannah

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

Authority	Program	Identification Number	Expiration Date
Florida	NELAP	E87052	06-30-25
Georgia	State	E87052	06-30-25

Method Summary

Client: Southern Company
Project/Site: Plant McIntosh Ash Pond 1

Job ID: 680-261520-2

Method	Method Description	Protocol	Laboratory
6020B	Metals (ICP/MS)	SW846	EET SAV
2320B-2011	Alkalinity, Total	SM	EET SAV
3005A	Preparation, Total Recoverable or Dissolved Metals	SW846	EET SAV

Protocol References:

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

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

Laboratory References:

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

Eurofins TestAmerica, Savannah
5102 LaRoche Avenue
Savannah, GA 31404
Phone (912) 354-7858 Fax (912) 352-0165

Chain of Custody Record

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Client Information	Sampler: T Goble LJ, May ACC	Lab PM: Fuller, David	Carrier Tracking No(s):	COC No:
Client Contact: SCS Contacts	Phone: 770-594-5998	E-Mail: david.fuller@et.eurofinsus.com		Page: 1 of TG 1
Company: GA Power				Job #:
Address: 241 Ralph McGill Blvd SE	Due Date Requested			
City: Atlanta	TAT Requested (days)			
State, Zip: GA, 30308				
Phone: 404-506-7116(Tel)	Lab Project #: 68027747			
Email: SCS Contacts / ACC Contacts	PO #: GPC82130-0002			
Project Name: Plant McIntosh - Ash Pond 1	Project #:			
Site: Georgia	SSOW#:			

Analysis Requested

Preservation Codes

A - HCL	M - Hexane
B - NaOH	N - None
C - Zn Acetate	O - AsNaO2
D - Nitric Acid	P - Na2O4S
E - NaHSO4	Q - Na2SO3
F - MeOH	R - Na2S2O3
G - Amchlor	S - H2SO4
H - Ascorbic Acid	T - TSP Dodecahydrate
I - Ice	U - Acetone
J - DI Water	V - MCAA
K - EDTA	W - pH 4-5
L - EDA	Z - other (specify)

Other:

Task_Code: MCI-CCR-ASSMT-2025S1

Special Instructions/Note: ALK + 3 Cations (Report Separately)

Sample Identification	Sample Date (mm/dd/yy)	Sample Time (hhmm)	Sample Type (C=comp, G=grab)	Matrix (WG=ground water WS=surface water WQ=quality control)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	Cations Mg Na K	Total Carbonate Bicarbonate Alkalinity	Total Number of containers
			Preservation Code.				D	I	
MCI- MGWA-5	02/03/25	1632	G	WG	N	N	✓	✓	TG 8
MCI- MGWA-6	02/03/25	1626	G	WG	N	N	✓	✓	TG 8
MCI- MGWA-6A	02/04/25	0950	G	WG	N	N	✓	✓	1
MCI- MGWA-10	02/04/25	0938	G	WG	N	N	✓	✓	1
MCI- MGWA-11	02/04/25	1049	G	WG	N	N	✓	✓	1
MCI- MGWC-3	02/04/25	1136	G	WG	N	N	✓	✓	1
MCI- MGWC-1	02/04/25	1222	G	WG	N	N	✓	✓	1
MCI- MGWC-8	02/04/25	1424	G	WG	N	N	✓	✓	1
MCI- MGWC-12	02/04/25	1430	G	WG	N	N	✓	✓	1
MCI- MGWC-7	02/04/25	1532	G	WG	N	N	✓	✓	1
MCI- MGWC-20	02/04/25	1615	G	WG	N	N	✓	✓	1

Possible Hazard Identification
☐ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown ☐ Radiological

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

Deliverable Requested I, II, III, IV, Other (specify)

Special Instructions/QC Requirements Additional Cations magnesium, sodium, potassium

Empty Kit Relinquished by:	Date:	Time	Method of Shipment:

Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
T G Goble	2-4-25 / 0831 TG 2011	ACC		2/4/25 2011	ACC
Relinquished by:	Date/Time: 2/5/25 0941	Company ACC	Received by:	Date/Time: 2/5/25 941	Company
Relinquished by:	Date/Time	Company	Received by:	Date/Time:	Company

Custody Seals Intact: ☐ Yes ☐ No | Custody Seal No

Cooler Temperature(s) °C and Other Remarks: 1.8/1.8 4.4/4.4 2.1/2.1 2.4/2.4 3.2/3.2

Login Sample Receipt Checklist

Client: Southern Company

Job Number: 680-261520-2

Login Number: 261520

List Source: Eurofins Savannah

List Number: 1

Creator: Munro, Caroline

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

This receipt checklist is generated for all samples received in this Login. It may not be applicable to all Jobs associated with this Login.

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ANALYTICAL REPORT

PREPARED FOR

Attn: Kevin Stephenson
Southern Company
241 Ralph McGill Blvd SE
B10185
Atlanta, Georgia 30308

Generated 2/20/2025 1:44:07 PM

JOB DESCRIPTION

Plant McIntosh - Ash Pond 1

JOB NUMBER

680-261610-2

Eurofins Savannah
5102 LaRoche Avenue
Savannah GA 31404

See page two for job notes and contact information.

my EOL

Job Notes

This report may not be reproduced except in full, and with written approval from the laboratory. The results relate only to the samples tested. For questions please contact the Project Manager at the e-mail address or telephone number listed on this page.

The test results in this report relate only to the samples as received by the laboratory and will meet all requirements of the methodology, with any exceptions noted. This report shall not be reproduced except in full, without the express written approval of the laboratory. All questions should be directed to the Eurofins Environment Testing Southeast, LLC Project Manager.

Authorization



Generated
2/20/2025 1:44:07 PM

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

Definitions/Glossary

Client: Southern Company
Job ID: 680-261610-2
Project/Site: Plant McIntosh - Ash Pond 1

Qualifiers

Metals

Qualifier	Qualifier Description
4	MS, MSD: The analyte present in the original sample is greater than 4 times the matrix spike concentration; therefore, control limits are not applicable.

Glossary

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

Sample Summary

Client: Southern Company
Job ID: 680-261610-2
Project/Site: Plant McIntosh - Ash Pond 1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
680-261610-1	MCI-MGWC-2	Water	02/05/25 10:57	02/06/25 09:40
680-261610-2	MCI-MGWC-19	Water	02/05/25 12:41	02/06/25 09:40

Job ID: 680-261610-2 — Eurofins Savannah

Job Narrative
680-261610-2

Analytical test results meet all requirements of the associated regulatory program listed on the Accreditation/Certification Summary Page unless otherwise noted under the individual analysis. Data qualifiers and/or narrative comments are included to explain any exceptions, if applicable.

- Matrix QC may not be reported if insufficient sample is provided or site-specific QC samples were not submitted. In these situations, to demonstrate precision and accuracy at a batch level, a LCS/LCSD may be performed, unless otherwise specified in the method.
- Surrogate and/or isotope dilution analyte recoveries (if applicable) which are outside of the QC window are confirmed unless attributed to a dilution or otherwise noted in the narrative.

Receipt
The samples were received on 2/6/2025 9:40 AM. Unless otherwise noted below, the samples arrived in good condition, and, where required, properly preserved and on ice. The temperature of the cooler at receipt time was 3.0°C.

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

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

Client: Southern Company
Job ID: 680-261610-2
Project/Site: Plant McIntosh - Ash Pond 1

Client Sample ID: MCI-MGWC-2
Lab Sample ID: 680-261610-1
Date Collected: 02/05/25 10:57
Matrix: Water
Date Received: 02/06/25 09:40

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Potassium	2.0		0.50	0.044	mg/L		02/07/25 05:43	02/07/25 15:40	1
Magnesium	16		0.50	0.023	mg/L		02/07/25 05:43	02/07/25 15:40	1
Sodium	29		0.50	0.20	mg/L		02/07/25 05:43	02/07/25 15:40	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Alkalinity as CaCO3 (SM 2320B-2011)	190		5.0	5.0	mg/L			02/12/25 19:17	1
Bicarbonate Alkalinity as CaCO3 (SM 2320B-2011)	190		5.0	5.0	mg/L			02/12/25 19:17	1
Carbonate Alkalinity as CaCO3 (SM 2320B-2011)	<5.0		5.0	5.0	mg/L			02/12/25 19:17	1

Client Sample ID: MCI-MGWC-19
Lab Sample ID: 680-261610-2
Date Collected: 02/05/25 12:41
Matrix: Water
Date Received: 02/06/25 09:40

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Potassium	2.4		0.50	0.044	mg/L		02/07/25 05:43	02/07/25 16:14	1
Magnesium	20		0.50	0.023	mg/L		02/07/25 05:43	02/07/25 16:14	1
Sodium	12		0.50	0.20	mg/L		02/07/25 05:43	02/07/25 16:14	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Alkalinity as CaCO3 (SM 2320B-2011)	92		5.0	5.0	mg/L			02/12/25 19:06	1
Bicarbonate Alkalinity as CaCO3 (SM 2320B-2011)	92		5.0	5.0	mg/L			02/12/25 19:06	1
Carbonate Alkalinity as CaCO3 (SM 2320B-2011)	<5.0		5.0	5.0	mg/L			02/12/25 19:06	1

Method: 6020B - Metals (ICP/MS)

Lab Sample ID: MB 680-874804/1-A
Matrix: Water
Analysis Batch: 874968

Client Sample ID: Method Blank
Prep Type: Total Recoverable
Prep Batch: 874804

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Potassium	<0.044		0.50	0.044	mg/L		02/07/25 05:43	02/07/25 15:46	1
Magnesium	<0.023		0.50	0.023	mg/L		02/07/25 05:43	02/07/25 15:46	1
Sodium	<0.20		0.50	0.20	mg/L		02/07/25 05:43	02/07/25 15:46	1

Lab Sample ID: LCS 680-874804/2-A
Matrix: Water
Analysis Batch: 874968

Client Sample ID: Lab Control Sample
Prep Type: Total Recoverable
Prep Batch: 874804

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Potassium			7.00	7.18		mg/L		103	80 - 120		
Magnesium			5.00	5.32		mg/L		106	80 - 120		
Sodium			5.00	5.40		mg/L		108	80 - 120		

Lab Sample ID: 400-270372-C-1-B MS
Matrix: Water
Analysis Batch: 874968

Client Sample ID: Matrix Spike
Prep Type: Total Recoverable
Prep Batch: 874804

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits		
Potassium	83		7.00	80.7	4	mg/L		-33	75 - 125		
Magnesium	390		5.00	363	4	mg/L		-611	75 - 125		
Sodium	830		5.00	766	4	mg/L		-1357	75 - 125		

Lab Sample ID: 400-270372-C-1-C MSD
Matrix: Water
Analysis Batch: 874968

Client Sample ID: Matrix Spike Duplicate
Prep Type: Total Recoverable
Prep Batch: 874804

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Potassium	83		7.00	85.8	4	mg/L		41	75 - 125	6	20
Magnesium	390		5.00	379	4	mg/L		-279	75 - 125	4	20
Sodium	830		5.00	801	4	mg/L		-651	75 - 125	5	20

Lab Sample ID: MB 680-874805/1-A
Matrix: Water
Analysis Batch: 874968

Client Sample ID: Method Blank
Prep Type: Total Recoverable
Prep Batch: 874805

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Potassium	<0.044		0.50	0.044	mg/L		02/07/25 05:43	02/07/25 14:47	1
Magnesium	<0.023		0.50	0.023	mg/L		02/07/25 05:43	02/07/25 14:47	1
Sodium	<0.20		0.50	0.20	mg/L		02/07/25 05:43	02/07/25 14:47	1

Lab Sample ID: LCS 680-874805/2-A
Matrix: Water
Analysis Batch: 874968

Client Sample ID: Lab Control Sample
Prep Type: Total Recoverable
Prep Batch: 874805

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Potassium			7.00	7.14		mg/L		102	80 - 120		
Magnesium			5.00	5.17		mg/L		103	80 - 120		
Sodium			5.00	5.30		mg/L		106	80 - 120		

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

Lab Sample ID: 400-270372-C-2-B MS
Matrix: Water
Analysis Batch: 874968

Client Sample ID: Matrix Spike
Prep Type: Total Recoverable
Prep Batch: 874805

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Potassium	99		7.00	105	4	mg/L		81	75 - 125
Magnesium	700		5.00	695	4	mg/L		-109	75 - 125
Sodium	2600		5.00	2550	4	mg/L		-585	75 - 125

Lab Sample ID: 400-270372-C-2-C MSD
Matrix: Water
Analysis Batch: 874968

Client Sample ID: Matrix Spike Duplicate
Prep Type: Total Recoverable
Prep Batch: 874805

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Potassium	99		7.00	104	4	mg/L		67	75 - 125	1	20
Magnesium	700		5.00	681	4	mg/L		-377	75 - 125	2	20
Sodium	2600		5.00	2500	4	mg/L		-1733	75 - 125	2	20

Method: 2320B-2011 - Alkalinity, Total

Lab Sample ID: MB 680-875545/4
Matrix: Water
Analysis Batch: 875545

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Alkalinity as CaCO3	<5.0		5.0	5.0	mg/L			02/12/25 18:05	1
Bicarbonate Alkalinity as CaCO3	<5.0		5.0	5.0	mg/L			02/12/25 18:05	1
Carbonate Alkalinity as CaCO3	<5.0		5.0	5.0	mg/L			02/12/25 18:05	1

Lab Sample ID: LCS 680-875545/6
Matrix: Water
Analysis Batch: 875545

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Total Alkalinity as CaCO3	250	243		mg/L		97	90 - 112

Lab Sample ID: LCSD 680-875545/31
Matrix: Water
Analysis Batch: 875545

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

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Total Alkalinity as CaCO3	250	249		mg/L		100	90 - 112	2	30

Lab Sample ID: 680-261588-E-2 DU
Matrix: Water
Analysis Batch: 875545

Client Sample ID: Duplicate
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
Total Alkalinity as CaCO3	44		42.4		mg/L		3	30
Bicarbonate Alkalinity as CaCO3	44		42.4		mg/L		3	30
Carbonate Alkalinity as CaCO3	<5.0		<5.0		mg/L		NC	30

QC Association Summary

Client: Southern Company
Project/Site: Plant McIntosh - Ash Pond 1

Job ID: 680-261610-2

Metals

Prep Batch: 874804

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-261610-2	MCI-MGWC-19	Total Recoverable	Water	3005A	
MB 680-874804/1-A	Method Blank	Total Recoverable	Water	3005A	
LCS 680-874804/2-A	Lab Control Sample	Total Recoverable	Water	3005A	
400-270372-C-1-B MS	Matrix Spike	Total Recoverable	Water	3005A	
400-270372-C-1-C MSD	Matrix Spike Duplicate	Total Recoverable	Water	3005A	

Prep Batch: 874805

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-261610-1	MCI-MGWC-2	Total Recoverable	Water	3005A	
MB 680-874805/1-A	Method Blank	Total Recoverable	Water	3005A	
LCS 680-874805/2-A	Lab Control Sample	Total Recoverable	Water	3005A	
400-270372-C-2-B MS	Matrix Spike	Total Recoverable	Water	3005A	
400-270372-C-2-C MSD	Matrix Spike Duplicate	Total Recoverable	Water	3005A	

Analysis Batch: 874968

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-261610-1	MCI-MGWC-2	Total Recoverable	Water	6020B	874805
680-261610-2	MCI-MGWC-19	Total Recoverable	Water	6020B	874804
MB 680-874804/1-A	Method Blank	Total Recoverable	Water	6020B	874804
MB 680-874805/1-A	Method Blank	Total Recoverable	Water	6020B	874805
LCS 680-874804/2-A	Lab Control Sample	Total Recoverable	Water	6020B	874804
LCS 680-874805/2-A	Lab Control Sample	Total Recoverable	Water	6020B	874805
400-270372-C-1-B MS	Matrix Spike	Total Recoverable	Water	6020B	874804
400-270372-C-1-C MSD	Matrix Spike Duplicate	Total Recoverable	Water	6020B	874804
400-270372-C-2-B MS	Matrix Spike	Total Recoverable	Water	6020B	874805
400-270372-C-2-C MSD	Matrix Spike Duplicate	Total Recoverable	Water	6020B	874805

General Chemistry

Analysis Batch: 875545

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-261610-1	MCI-MGWC-2	Total/NA	Water	2320B-2011	
680-261610-2	MCI-MGWC-19	Total/NA	Water	2320B-2011	
MB 680-875545/4	Method Blank	Total/NA	Water	2320B-2011	
LCS 680-875545/6	Lab Control Sample	Total/NA	Water	2320B-2011	
LCSD 680-875545/31	Lab Control Sample Dup	Total/NA	Water	2320B-2011	
680-261588-E-2 DU	Duplicate	Total/NA	Water	2320B-2011	

Lab Chronicle

Client: Southern Company
Project/Site: Plant McIntosh - Ash Pond 1

Job ID: 680-261610-2

Client Sample ID: MCI-MGWC-2

Lab Sample ID: 680-261610-1

Date Collected: 02/05/25 10:57
Matrix: Water
Date Received: 02/06/25 09:40

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total Recoverable	Prep	3005A			25 mL	125 mL	874805	02/07/25 05:43	RR	EET SAV
Total Recoverable	Analysis	6020B		1			874968	02/07/25 15:40	BWR	EET SAV
	Instrument ID: ICPMSG									
Total/NA	Analysis	2320B-2011		1			875545	02/12/25 19:17	PG	EET SAV
	Instrument ID: MANTECH 2									

Client Sample ID: MCI-MGWC-19

Lab Sample ID: 680-261610-2

Date Collected: 02/05/25 12:41
Matrix: Water
Date Received: 02/06/25 09:40

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total Recoverable	Prep	3005A			25 mL	125 mL	874804	02/07/25 05:43	RR	EET SAV
Total Recoverable	Analysis	6020B		1			874968	02/07/25 16:14	BWR	EET SAV
	Instrument ID: ICPMSG									
Total/NA	Analysis	2320B-2011		1			875545	02/12/25 19:06	PG	EET SAV
	Instrument ID: MANTECH 2									

Laboratory References:

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

Accreditation/Certification Summary

Client: Southern Company
Job ID: 680-261610-2
Project/Site: Plant McIntosh - Ash Pond 1

Laboratory: Eurofins Savannah

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

Authority	Program	Identification Number	Expiration Date
Florida	NELAP	E87052	06-30-25
Georgia	State	E87052	06-30-25

Method Summary

Client: Southern Company
Project/Site: Plant McIntosh - Ash Pond 1

Job ID: 680-261610-2

Method	Method Description	Protocol	Laboratory
6020B	Metals (ICP/MS)	SW846	EET SAV
2320B-2011	Alkalinity, Total	SM	EET SAV
3005A	Preparation, Total Recoverable or Dissolved Metals	SW846	EET SAV

Protocol References:

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

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

Laboratory References:

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

Eurofins TestAmerica, Savannah
5102 LaRoche Avenue
Savannah, GA 31404
Phone (912) 354-7858 Fax (912) 352-0165

Chain of Custody Record

eurofins | Environment Testing America

Client Information	Sampler: T. Goble / J. May ACC	Lab PM: Fuller, David	Carrier Tracking No(s)	COC No
Client Contact: SCS Contacts	Phone: 770-594-5998	E-Mail: david.fuller@et.eurofinsus.com		Page: 1 of 1
Company: GA Power				Job #:
Address: 241 Ralph McGill Blvd SE	Due Date Requested			
City: Atlanta	TAT Requested (days)			
State, Zip: GA, 30308				
Phone: 404-506-7116(Tel)	Lab Project #: 68027747			
Email: SCS Contacts / ACC Contacts	PO #: GPC82130-0002			
Project Name: Plant McIntosh - Ash Pond 1	Project #:			
Site: Georgia	SSOW#:			

Analysis Requested

Preservation Codes:
A - HCL, B - NaOH, C - Zn Acetate, D - Nitric Acid, E - NaHSO4, F - MeOH, G - Amchlor, H - Ascorbic Acid, I - Ice, J - DI Water, K - EDTA, L - EDA, M - Hexane, N - None, O - AsNaO2, P - Na2O4S, Q - Na2SO3, R - Na2S2O3, S - H2SO4, T - TSP Dodecahydrate, U - Acetone, V - MCAA, W - pH 4-5, Z - other (specify)
Other:

Task_Code: MCI-CCR-ASSMT-2025S1

Special Instructions/Note: ALK + 3 Cations (Report Separately)

Sample Identification	Sample Date (mm/dd/yy)	Sample Time (hhmm)	Sample Type (C=Comp, G=grab)	Matrix (WG=ground water, WS=surface water, WQ=quality control)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	Cations Mg Na K	Total Carbonate Bicarbonate Alkalinity	Total Number of containers
			Preservation Code:				D	1	
MCI- MGWL-2	02/05/25	1057	G	WG	N	N	✓	✓	1
MCI- MGWL-19	02/05/25	1241	G	WG	N	N	✓	✓	1
MCI-			G	WG	N	N			
MCI-			G	WG	N	N			
MCI-			G	WG	N	N			
MCI-			G	WG	N	N			
MCI-			G	WG	N	N			
MCI-			G	WG	N	N			
MCI-			G	WG	N	N			
MCI-			G	WG	N	N			
MCI-			G	WG	N	N			

Possible Hazard Identification
☐ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown ☐ Radiological

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

Deliverable Requested: I, II, III, IV, Other (specify)

Special Instructions/QC Requirements: Additional Cations magnesium, sodium, potassium

Empty Kit Relinquished by:	Date:	Time:	Method of Shipment:

	Relinquished by	Date/Time	Company	Received by	Date/Time	Company
1	Taylor Gobble	2-5-25/2035	ACC		2-5-25/2035	~~2035~~ ACC
2		2-6-25/0940	ACC		2/6/25 940	
3						

Custody Seals Intact: ☐ Yes ☐ No
Custody Seal No:
Cooler Temperature(s) °C and Other Remarks: 3.0/3.0

Login Sample Receipt Checklist

Client: Southern Company

Job Number: 680-261610-2

Login Number: 261610

List Source: Eurofins Savannah

List Number: 1

Creator: Munro, Caroline

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

This receipt checklist is generated for all samples received in this Login. It may not be applicable to all Jobs associated with this Login.

LEVEL 2A LABORATORY DATA VALIDATIONS

McIntosh Ash Pond 1

Semiannual Event

February 2025

Georgia Power Company – McIntosh Ash Pond 1

Quality Control Review of Analytical Data – February 2025

This narrative presents results of the Quality Control (QC) data review performed on analytical data submitted by Eurofins Environment Testing America, Savannah and St. Louis for groundwater samples collected at McIntosh Ash Pond 1 (AP-1) between February 3, 2025 and February 5, 2025. The chemical data were reviewed to identify quality issues which could affect the use of the data for decision-making purposes.

Information regarding the primary sample locations, analytical parameters, QC samples, sampling dates, and laboratory sample delivery group (SDG) designations is summarized in Table 1 of this Appendix.

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

Data were reviewed in accordance with the US EPA Region 4 Data Validation Standard Operating Procedures for Contract Laboratory Program Inorganic Data by Inductively Coupled Plasma – Atomic Emission Spectroscopy and Inductively Coupled Plasma – Mass Spectroscopy (September 2011, Rev. 2.0)[1] and the National Functional Guidelines for Inorganic Superfund Methods Data Review (January 2017)[2]. The review included an assessment of the results for completeness, precision (laboratory duplicate recoveries and matrix spike/matrix spike duplicate recoveries), accuracy (laboratory control samples and matrix spike samples), and blank contamination (field, equipment, and laboratory blanks). Sample receipt conditions, holding times, and chains of custody were reviewed. If there was a discrepancy between the QC criteria in the guidelines and the QC criterion established in the analytical methodology, method-specific criteria or professional judgment were used.

DATA QUALITY OBJECTIVES

Laboratory Precision: Laboratory goals for precision were met, except for total dissolved solids (TDS) from MCI-MGWC-20 (680-261520-14) and MCI-MGWC-2 (680-261610-1) and radium-228 from MCI-MGWA-5 (680-261520-1) as described in the qualifications section below.

Field Precision: Field goals for precision were met, except for chloride from MCI-MGWC-3 (680-261520-6) as described in the qualifications section below.

Accuracy: Laboratory goals for accuracy were met, except for chloride, fluoride, and sulfate from MCI-MGWC-12 (680-261520-9) as described in the qualifications section below.

Detection Limits: Project goals for detection limits were met. Certain samples were diluted due to the concentration of target or non-target analyte interferences. Dilutions do not require qualifications based on US EPA guidelines. Reporting limits (RLs) of non-detect compounds are elevated proportional to the dilution when undiluted sample results were not provided by the laboratory. The data usability of diluted results was evaluated by the data user in the context of site-wide characterization.

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

Holding Times: Holding time requirements were met.

QUALIFICATIONS

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

B: The analyte was positively identified above the method detection limit; however, the analyte was also detected in a method blank, field blank, and/or equipment blank.

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

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

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

- Samples MCI-MGWC-3 (680-261520-6) and MCI-AP-1-FD-01 (680-261520-10) were qualified as estimated (J) for chloride as the field relative percent difference (RPD) exceeded QC criteria (53.3%, above the limit of 20).

- Sample MCI-MGWC-20 (680-261520-14) was qualified as estimated (J) for TDS as the lab RPD exceeded QC criteria (9%, above the limit of 5).

- Sample MCI-MGWA-5 (680-261520-1) was qualified as estimated (J) for radium-228 as the lab RPD exceeded QC criteria (1.12%, above the limit of 1).

- Sample MCI-MGWC-2 (680-261610-1) was qualified as estimated (J) for TDS as the lab RPD exceeded QC criteria (6%, above the limit of 5).

- Sample MCI-MGWC-12 (680-261520-9) was qualified as estimated (J) for sulfate as the associated matrix spike (MS) and matrix spike duplicate (MSD) recoveries were outside QC criteria (124% and 143%, respectively, above the range of 80-120).

- Sample MCI-MGWC-12 (680-261520-9) was qualified as estimated (J) for chloride and fluoride as the associated MSD recoveries were outside QC criteria (129% and 129%, respectively, above the range of 80-120).

- Samples MCI-MGWC-1 (680-261520-7) and MCI-MGWC-8 (680-261520-8) were qualified as estimated (B) for arsenic due to the analyte being detected at a similar concentration in an associated blank sample (MCI-AP-1-EB-03).

- Samples MCI-MGWC-2 (680-261610-1) and MCI-AP1-FD-02 (680-261610-3) were qualified as estimated (B) for lithium due to the analyte being detected at a similar concentration in an associated blank sample (Analysis Batch 875084 method blank).

- Certain radium 228 results on work order 680-261520-3 were qualified as non-detect (ND) due to the analytes being detected at similar concentrations in an associated blank sample (MCI-AP1-EB-04). As shown in Table 2, when the original sample result was below the minimum detectable concentration (MDC), the new MDC was raised to the

detectable concentration of the blank as part of the qualification process; when the original sample result was slightly above the MDC, the new MDC was raised to the sample result as part of the qualification process.

Atlantic Coast Consulting, Inc. reviewed the laboratory data from McIntosh AP-1 sampled between February 3, 2025 and February 5, 2025 in accordance with the analytical methods, the laboratory-specified QC criteria, and the guidelines. As described above, the results were acceptable for project use.

REFERENCES

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

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

TABLE 1

Sample Summary Table – February 2025

Georgia Power Company – McIntosh AP-1

						Analyses			
SDG	Field Identification	Collection Date	Lab Identification	Matrix	QC Samples	Metals (6020B, 7470A)	Anions (300.0)	TDS (SM 2540C)	Radium-226/-228 (9315, 9320)
261520-1	MCI-MGWA-5	02/03/25	680-261520-1	WG		X	X	X	
261520-3	MCI-MGWA-5	02/03/25	680-261520-1	WG					X
261520-1	MCI-MGWA-6	02/03/25	680-261520-2	WG		X	X	X	
261520-3	MCI-MGWA-6	02/03/25	680-261520-2	WG					X
261520-1	MCI-MGWA-6A	02/04/25	680-261520-3	WG		X	X	X	
261520-3	MCI-MGWA-6A	02/04/25	680-261520-3	WG					X
261520-1	MCI-MGWA-10	02/04/25	680-261520-4	WG		X	X	X	
261520-3	MCI-MGWA-10	02/04/25	680-261520-4	WG					X
261520-1	MCI-MGWA-11	02/04/25	680-261520-5	WG		X	X	X	
261520-3	MCI-MGWA-11	02/04/25	680-261520-5	WG					X
261520-1	MCI-MGWC-3	02/04/25	680-261520-6	WG		X	X	X	
261520-3	MCI-MGWC-3	02/04/25	680-261520-6	WG					X
261520-1	MCI-MGWC-1	02/04/25	680-261520-7	WG		X	X	X	
261520-3	MCI-MGWC-1	02/04/25	680-261520-7	WG					X
261520-1	MCI-MGWC-8	02/04/25	680-261520-8	WG		X	X	X	
261520-3	MCI-MGWC-8	02/04/25	680-261520-8	WG					X
261520-1	MCI-MGWC-12	02/04/25	680-261520-9	WG		X	X	X	
261520-3	MCI-MGWC-12	02/04/25	680-261520-9	WG					X
261520-1	MCI-AP1-FD-01	02/04/25	680-261520-10	WG	FD (MCI-MGWC-3)	X	X	X	
261520-3	MCI-AP1-FD-01	02/04/25	680-261520-10	WG	FD (MCI-MGWC-3)				X
261520-1	MCI-AP1-EB-03	02/04/25	680-261520-11	WQ	EB	X	X	X	
261520-3	MCI-AP1-EB-03	02/04/25	680-261520-11	WQ	EB				X
261520-1	MCI-AP1-FB-01	02/04/25	680-261520-12	WQ	FB	X	X	X	
261520-3	MCI-AP1-FB-01	02/04/25	680-261520-12	WQ	FB				X
261520-1	MCI-MGWC-7	02/04/25	680-261520-13	WG		X	X	X	
261520-3	MCI-MGWC-7	02/04/25	680-261520-13	WG					X

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

TABLE 1 (continued)

Sample Summary Table – February 2025

Georgia Power Company – McIntosh AP-1

						Analyses			
SDG	Field Identification	Collection Date	Lab Identification	Matrix	QC Samples	Metals (6020B, 7470A)	Anions (300.0)	TDS (SM 2540C)	Radium-226/-228 (9315, 9320)
261520-1	MCI-MGWC-20	02/04/25	680-261520-14	WG		X	X	X	
261520-3	MCI-MGWC-20	02/04/25	680-261520-14	WG					X
261520-1	MCI-AP1-EB-04	02/04/25	680-261520-15	WQ	FB	X	X	X	
261520-3	MCI-AP1-EB-04	02/04/25	680-261520-15	WQ	FB				X
261520-1	MCI-AP1-FB-02	02/04/25	680-261520-16	WQ	FB	X	X	X	
261520-3	MCI-AP1-FB-02	02/04/25	680-261520-16	WQ	FB				X
261610-1	MCI-MGWC-2	02/05/25	680-261610-1	WG		X	X	X	
261610-3	MCI-MGWC-2	02/05/25	680-261610-1	WG					X
261610-1	MCI-MGWC-19	02/05/25	680-261610-2	WG		X	X	X	
261610-3	MCI-MGWC-19	02/05/25	680-261610-2	WG					X
261610-1	MCI-AP1-FD-02	02/05/25	680-261610-3	WG	FD (MCI-MGWC-2)	X	X	X	
261610-3	MCI-AP1-FD-02	02/05/25	680-261610-3	WG	FD (MCI-MGWC-2)				X

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

TABLE 2

Qualifier Summary Table – February 2025

Georgia Power Company – McIntosh AP-1

SDG	Field Identification	Constituent	New RL	New MDL or MDC	Qualifier	Reason
261520-1	MCI-MGWC-1	Arsenic			B	Blank detection
261520-1	MCI-MGWC-8	Arsenic			B	Blank detection
261520-3	MCI-MGWA-6A	Radium-228		0.907	ND	Blank detection
261520-3	MCI-MGWA-10	Radium-228		0.818	ND	Blank detection
261520-3	MCI-MGWC-3	Radium-228		0.971	ND	Blank detection
261520-3	MCI-AP1-FD-01	Radium-228		0.818	ND	Blank detection
261520-1	MCI-MGWC-3	Chloride			J	RPD exceeds field goal
261520-1	MCI-MGWC-20	TDS			J	RPD exceeds lab goal
261520-3	MCI-MGWA-5	Radium-228			J	RPD exceeds lab goal
261520-1	MCI-MGWC-12	Chloride			J	MSD outside QC criterion
261520-1	MCI-MGWC-12	Fluoride			J	MSD outside QC criterion
261520-1	MCI-MGWC-12	Sulfate			J	MS/MSD outside QC criterion
261610-1	MCI-MGWC-2	Lithium			B	Blank detection
261610-1	MCI-AP1-FD-02	Lithium			B	Blank detection
261610-1	MCI-MGWC-2	TDS			J	RPD exceeds lab 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:
B – Method, Field, or Equipment Blank Detection
J – Estimated Result
ND – Non-Detect Result

LEVEL 2A LABORATORY DATA VALIDATIONS

McIntosh Ash Pond 1

Geochemical Parameters Event

February 2025

Georgia Power Company – McIntosh Ash Pond 1

Quality Control Review of Analytical Data – February 2025

This narrative presents results of the Quality Control (QC) data review performed on analytical data submitted by Eurofins Environment Testing America, Savannah for groundwater samples collected at McIntosh Ash Pond 1 (AP-1) between February 3, 2025 and February 5, 2025. 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.

The samples were analyzed for geochemical parameters. Test methods included Inductively Coupled Plasma – Mass Spectrometry (US EPA Method 6020B) and Alkalinity in Water (Standard Methods 2320B).

Data were reviewed in accordance with the US EPA Region 4 Data Validation Standard Operating Procedures for Contract Laboratory Program Inorganic Data by Inductively Coupled Plasma – Atomic Emission Spectroscopy and Inductively Coupled Plasma – Mass Spectroscopy (September 2011, Rev. 2.0)[1] and the National Functional Guidelines for Inorganic Superfund Methods Data Review (January 2017)[2]. The review included an assessment of the results for completeness, precision (laboratory duplicate recoveries and matrix spike/matrix spike duplicate recoveries), accuracy (laboratory control samples and matrix spike samples), and blank contamination (laboratory blanks). Sample receipt conditions, holding times, and chains of custody were reviewed. If there was a discrepancy between the QC criteria in the guidelines and the QC criterion established in the analytical methodology, method-specific criteria or professional judgment were used.

DATA QUALITY OBJECTIVES

Laboratory Precision: Laboratory goals for precision were met.

Field Precision: Field goals for precision were not applicable to this sampling event.

Accuracy: Laboratory goals for accuracy were met.

Detection Limits: Project goals for detection limits were met.

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

Holding Times: Holding time requirements were met.

QUALIFICATIONS

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

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

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

The data generated as part of this sampling event met the QC criteria established in the respective analytical methods and data validation guidelines.

Atlantic Coast Consulting, Inc. reviewed the laboratory data from McIntosh AP-1 sampled between February 3, 2025 and February 4, 2025 in accordance with the analytical methods, the laboratory-specified QC criteria, and the guidelines. As described above, the results were acceptable for project use.

REFERENCES

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

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

TABLE 1

Sample Summary Table – February 2025

Georgia Power Company – McIntosh AP-1

						Analyses	
SDG	Field Identification	Collection Date	Lab Identification	Matrix	QC Samples	Metals (6020B)	Alkalinity (SM 2320B)
261520-2	MCI-MGWA-5	02/03/25	680-261520-1	WG		X	X
261520-2	MCI-MGWA-6	02/03/25	680-261520-2	WG		X	X
261520-2	MCI-MGWA-6A	02/04/25	680-261520-3	WG		X	X
261520-2	MCI-MGWA-10	02/04/25	680-261520-4	WG		X	X
261520-2	MCI-MGWA-11	02/04/25	680-261520-5	WG		X	X
261520-2	MCI-MGWC-3	02/04/25	680-261520-6	WG		X	X
261520-2	MCI-MGWC-1	02/04/25	680-261520-7	WG		X	X
261520-2	MCI-MGWC-8	02/04/25	680-261520-8	WG		X	X
261520-2	MCI-MGWC-12	02/04/25	680-261520-9	WG		X	X
261520-2	MCI-MGWC-7	02/04/25	680-261520-13	WG		X	X
261520-2	MCI-MGWC-20	02/04/25	680-261520-14	WG		X	X
261610-2	MCI-MGWC-2	02/05/25	680-261610-1	WG		X	X
261610-2	MCI-MGWC-19	02/05/25	680-261610-2	WG		X	X

Abbreviations:
QC – Quality Control
SDG – Sample Delivery Group
WG – Groundwater

Low-Flow Test Report:

Test Date / Time: 2/4/2025 11:47:30 AM
Project: Plant McIntosh AP-1
Operator Name: J. May

Location Name: MGWC-1 **Well Diameter: 2 in** **Casing Type: PVC** **Screen Length: 10 ft** **Top of Screen: 46.08 ft** **Total Depth: 56.08 ft** **Initial Depth to Water: 39.48 ft**	**Pump Type: Portable Bladder Pump** **Tubing Type: Poly** **Tubing Inner Diameter: 0.17 in** **Pump Intake From TOC: 51 ft** **Estimated Total Volume Pumped: 7 liter** **Flow Cell Volume: 130 ml** **Final Flow Rate: 200 ml/min** **Final Draw Down: 15.84 in**	**Instrument Used: Aqua TROLL 500** **Serial Number: 1183949**

Test Notes:
Sample Time: 1222
Sunny, 70s

Low-Flow Readings:

Date Time	Elapsed Time	pH	Temperature	Specific Conductivity	RDO Concentration	Turbidity	ORP	Depth to Water	Flow
		+/- 0.1	+/- 3	+/- 5 %	+/- 10 %	+/- 10	+/- 25	+/- 0.3	
2/4/2025 11:47 AM	00:00	6.80 pH	24.05 °C	527.25 µS/cm	2.88 mg/L	1.04 NTU	96.4 mV	39.48 ft	200.00 ml/min
2/4/2025 11:52 AM	05:00	6.80 pH	22.38 °C	524.85 µS/cm	1.81 mg/L	1.02 NTU	91.9 mV	40.50 ft	200.00 ml/min
2/4/2025 11:57 AM	10:00	6.68 pH	22.23 °C	524.03 µS/cm	1.62 mg/L	0.69 NTU	103.9 mV	40.70 ft	200.00 ml/min
2/4/2025 12:02 PM	15:00	6.79 pH	22.14 °C	535.78 µS/cm	1.25 mg/L	0.94 NTU	98.3 mV	40.80 ft	200.00 ml/min
2/4/2025 12:07 PM	20:00	6.99 pH	22.14 °C	576.28 µS/cm	0.58 mg/L	1.05 NTU	81.3 mV	40.80 ft	200.00 ml/min
2/4/2025 12:12 PM	25:00	7.10 pH	22.13 °C	598.59 µS/cm	0.35 mg/L	0.67 NTU	63.7 mV	40.80 ft	200.00 ml/min
2/4/2025 12:17 PM	30:00	7.17 pH	22.22 °C	609.28 µS/cm	0.26 mg/L	0.68 NTU	52.1 mV	40.80 ft	200.00 ml/min
2/4/2025 12:22 PM	35:00	7.20 pH	22.10 °C	612.94 µS/cm	0.25 mg/L	0.66 NTU	45.1 mV	40.80 ft	200.00 ml/min

Samples

Sample ID:	Description:

Low-Flow Test Report:

Test Date / Time: 2/5/2025 8:57:05 AM
Project: Plant McIntosh AP-1
Operator Name: J. May

Location Name: MGWC-2 **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: 21.16 ft**	**Pump Type: Peristaltic Pump** **Tubing Type: Poly** **Tubing Inner Diameter: 0.17 in** **Pump Intake From TOC: 32 ft** **Estimated Total Volume Pumped: 21 liter** **Flow Cell Volume: 130 ml** **Final Flow Rate: 150 ml/min** **Final Draw Down: 12.48 in**	**Instrument Used: Aqua TROLL 500** **Serial Number: 1183949**

Test Notes:
Sample Time: 1057
Sunny, 60s

Low-Flow Readings:

Date Time	Elapsed Time	pH	Temperature	Specific Conductivity	RDO Concentration	Turbidity	ORP	Depth to Water	Flow
		+/- 0.1	+/- 3	+/- 5 %	+/- 10 %	+/- 10	+/- 25	+/- 0.3	
2/5/2025 8:57 AM	00:00	8.30 pH	18.66 °C	668.83 µS/cm	2.92 mg/L	1.76 NTU	210.2 mV	21.16 ft	200.00 ml/min
2/5/2025 9:02 AM	05:00	7.57 pH	19.93 °C	669.39 µS/cm	0.40 mg/L	2.24 NTU	187.2 mV	22.20 ft	200.00 ml/min
2/5/2025 9:07 AM	10:00	7.57 pH	20.33 °C	667.26 µS/cm	0.26 mg/L	2.57 NTU	166.9 mV	22.40 ft	200.00 ml/min
2/5/2025 9:12 AM	15:00	7.57 pH	20.51 °C	667.22 µS/cm	0.20 mg/L	1.64 NTU	141.7 mV	22.70 ft	200.00 ml/min
2/5/2025 9:17 AM	20:00	7.58 pH	20.60 °C	666.98 µS/cm	0.18 mg/L	2.22 NTU	56.0 mV	22.90 ft	200.00 ml/min
2/5/2025 9:22 AM	25:00	7.59 pH	20.70 °C	666.30 µS/cm	0.18 mg/L	2.34 NTU	10.9 mV	22.90 ft	200.00 ml/min
2/5/2025 9:27 AM	30:00	7.61 pH	20.75 °C	666.21 µS/cm	0.19 mg/L	4.20 NTU	-23.2 mV	22.90 ft	200.00 ml/min
2/5/2025 9:32 AM	35:00	7.62 pH	20.79 °C	662.60 µS/cm	0.20 mg/L	8.00 NTU	-46.8 mV	22.90 ft	200.00 ml/min
2/5/2025 9:37 AM	40:00	7.65 pH	20.82 °C	648.67 µS/cm	0.25 mg/L	14.10 NTU	-61.0 mV	22.90 ft	200.00 ml/min
2/5/2025 9:42 AM	45:00	7.95 pH	20.83 °C	602.03 µS/cm	0.79 mg/L	24.90 NTU	-72.7 mV	22.90 ft	200.00 ml/min
2/5/2025 9:47 AM	50:00	7.71 pH	20.79 °C	633.21 µS/cm	0.54 mg/L	18.70 NTU	-70.1 mV	22.90 ft	200.00 ml/min
2/5/2025 9:52 AM	55:00	7.72 pH	20.78 °C	617.65 µS/cm	0.57 mg/L	23.30 NTU	-73.2 mV	22.90 ft	200.00 ml/min
2/5/2025 9:57 AM	01:00:00	7.72 pH	20.79 °C	611.45 µS/cm	0.64 mg/L	22.30 NTU	-73.8 mV	22.80 ft	150.00 ml/min
2/5/2025 10:02 AM	01:05:00	7.68 pH	20.83 °C	629.03 µS/cm	0.58 mg/L	19.60 NTU	-73.0 mV	22.60 ft	150.00 ml/min

2/5/2025 10:07 AM	01:10:00	7.67 pH	20.85 °C	619.34 µS/cm	0.54 mg/L	16.40 NTU	-75.3 mV	22.30 ft	150.00 ml/min
2/5/2025 10:12 AM	01:15:00	7.68 pH	20.79 °C	614.02 µS/cm	0.61 mg/L	18.70 NTU	-74.3 mV	22.20 ft	150.00 ml/min
2/5/2025 10:17 AM	01:20:00	7.69 pH	20.79 °C	609.88 µS/cm	0.63 mg/L	17.30 NTU	-74.0 mV	22.20 ft	150.00 ml/min
2/5/2025 10:22 AM	01:25:00	7.69 pH	20.75 °C	610.39 µS/cm	0.63 mg/L	15.80 NTU	-73.3 mV	22.20 ft	150.00 ml/min
2/5/2025 10:27 AM	01:30:00	7.69 pH	20.77 °C	613.25 µS/cm	0.61 mg/L	10.30 NTU	-74.9 mV	22.20 ft	150.00 ml/min
2/5/2025 10:32 AM	01:35:00	7.68 pH	20.76 °C	614.44 µS/cm	0.58 mg/L	10.20 NTU	-76.0 mV	22.20 ft	150.00 ml/min
2/5/2025 10:37 AM	01:40:00	7.68 pH	20.78 °C	615.54 µS/cm	0.57 mg/L	7.81 NTU	-76.0 mV	22.20 ft	150.00 ml/min
2/5/2025 10:42 AM	01:45:00	7.66 pH	20.81 °C	619.73 µS/cm	0.53 mg/L	7.78 NTU	-78.2 mV	22.20 ft	150.00 ml/min
2/5/2025 10:47 AM	01:50:00	7.67 pH	20.87 °C	619.55 µS/cm	0.53 mg/L	7.00 NTU	-79.1 mV	22.20 ft	150.00 ml/min
2/5/2025 10:52 AM	01:55:00	7.66 pH	20.84 °C	622.52 µS/cm	0.51 mg/L	6.56 NTU	-80.5 mV	22.20 ft	150.00 ml/min
2/5/2025 10:57 AM	02:00:00	7.66 pH	20.92 °C	621.96 µS/cm	0.51 mg/L	4.65 NTU	-82.1 mV	22.20 ft	150.00 ml/min

Samples

Sample ID:	Description:

Low-Flow Test Report:

Test Date / Time: 2/4/2025 11:06:09 AM
Project: Plant McIntosh AP-1
Operator Name: C.Klamke

Location Name: MGWC-3 **Well Diameter: 2 in** **Casing Type: PVC** **Screen Length: 10 ft** **Top of Screen: 28.74 ft** **Total Depth: 38.74 ft** **Initial Depth to Water: 20.24 ft**	**Pump Type: Peristaltic Pump** **Tubing Type: Poly** **Tubing Inner Diameter: 0.17 in** **Pump Intake From TOC: 33 ft** **Estimated Total Volume Pumped: 7.8 liter** **Flow Cell Volume: 130 ml** **Final Flow Rate: 260 ml/min** **Final Draw Down: 0.66 ft**	**Instrument Used: Aqua TROLL 500** **Serial Number: 1183974**

Test Notes:
Sampled at 1136. Clear 69 degrees. AP1-FD-01 poured here.

Low-Flow Readings:

Date Time	Elapsed Time	pH	Temperature	Specific Conductivity	RDO Concentration	Turbidity	ORP	Depth to Water	Flow
		+/- 0.1	+/- 3	+/- 5 %	+/- 10 %	+/- 10	+/- 25	+/- 0.5	
2/4/2025 11:06 AM	00:00	7.20 pH	21.28 °C	486.99 µS/cm	0.62 mg/L	1.83 NTU	135.8 mV	20.79 ft	260.00 ml/min
2/4/2025 11:11 AM	05:00	6.98 pH	20.99 °C	496.87 µS/cm	0.20 mg/L	1.21 NTU	147.3 mV	20.85 ft	260.00 ml/min
2/4/2025 11:16 AM	10:00	6.84 pH	20.97 °C	499.16 µS/cm	0.17 mg/L	0.64 NTU	144.4 mV	20.82 ft	260.00 ml/min
2/4/2025 11:21 AM	15:00	6.97 pH	20.99 °C	499.23 µS/cm	0.15 mg/L	0.47 NTU	135.7 mV	20.89 ft	260.00 ml/min
2/4/2025 11:26 AM	20:00	6.89 pH	20.97 °C	503.27 µS/cm	0.17 mg/L	0.71 NTU	126.7 mV	20.89 ft	260.00 ml/min
2/4/2025 11:31 AM	25:00	6.80 pH	20.94 °C	503.89 µS/cm	0.18 mg/L	0.86 NTU	117.3 mV	20.90 ft	260.00 ml/min
2/4/2025 11:36 AM	30:00	6.90 pH	20.98 °C	504.64 µS/cm	0.21 mg/L	0.63 NTU	101.8 mV	20.90 ft	260.00 ml/min

Samples

Sample ID:	Description:

Created using VuSitu from In-Situ, Inc.

Low-Flow Test Report:

Test Date / Time: 2/3/2025 3:57:39 PM
Project: Plant McIntosh AP-1
Operator Name: Taylor Goble

Location Name: MGWA-5 **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: 23.98 ft**	**Pump Type: Peristaltic Pump** **Tubing Type: Poly** **Tubing Inner Diameter: 0.17 in** **Pump Intake From TOC: 58 ft** **Estimated Total Volume Pumped: 5.25 liter** **Flow Cell Volume: 130 ml** **Final Flow Rate: 150 ml/min** **Final Draw Down: 0.98 ft**	**Instrument Used: Aqua TROLL 500** **Serial Number: 1183974**

Test Notes:
Sunny 71, sample time 1632

Low-Flow Readings:

Date Time	Elapsed Time	pH	Temperature	Specific Conductivity	RDO Concentration	Turbidity	ORP	Depth to Water	Flow
		+/- 0.1	+/- 3	+/- 5 %	+/- 10 %	+/- 10	+/- 25	+/- 0.3	
2/3/2025 3:57 PM	00:00	7.78 pH	21.69 °C	237.89 µS/cm	5.31 mg/L	45.70 NTU	214.5 mV	24.63 ft	150.00 ml/min
2/3/2025 4:02 PM	05:00	7.72 pH	20.89 °C	220.94 µS/cm	0.74 mg/L	25.40 NTU	181.4 mV	24.78 ft	150.00 ml/min
2/3/2025 4:07 PM	10:00	7.67 pH	20.84 °C	219.55 µS/cm	0.62 mg/L	18.90 NTU	124.6 mV	24.78 ft	150.00 ml/min
2/3/2025 4:12 PM	15:00	7.67 pH	20.73 °C	218.50 µS/cm	0.44 mg/L	16.70 NTU	90.0 mV	24.86 ft	150.00 ml/min
2/3/2025 4:17 PM	20:00	7.63 pH	20.67 °C	217.43 µS/cm	0.37 mg/L	9.18 NTU	7.7 mV	24.94 ft	150.00 ml/min
2/3/2025 4:22 PM	25:00	7.64 pH	20.61 °C	216.77 µS/cm	0.31 mg/L	8.31 NTU	-15.0 mV	24.97 ft	150.00 ml/min
2/3/2025 4:27 PM	30:00	7.66 pH	20.66 °C	216.07 µS/cm	0.28 mg/L	5.33 NTU	-31.2 mV	24.99 ft	150.00 ml/min
2/3/2025 4:32 PM	35:00	7.67 pH	20.61 °C	215.59 µS/cm	0.28 mg/L	4.28 NTU	-48.1 mV	24.96 ft	150.00 ml/min

Samples

Sample ID:	Description:

Low-Flow Test Report:

Test Date / Time: 2/3/2025 4:01:30 PM
Project: Plant McIntosh AP-1
Operator Name: J. May

Location Name: MGWA-6 **Well Diameter: 2 in** **Casing Type: PVC** **Screen Length: 10 ft** **Top of Screen: 31.93 ft** **Total Depth: 41.93 ft** **Initial Depth to Water: 23.55 ft**	**Pump Type: Peristaltic Pump** **Tubing Type: Poly** **Pump Intake From TOC: 37 ft** **Estimated Total Volume Pumped: 3.75 liter** **Flow Cell Volume: 130 ml** **Final Flow Rate: 150 ml/min** **Final Draw Down: 3 in**	**Instrument Used: Aqua TROLL 500** **Serial Number: 1183949**

Test Notes:
Sample Time: 1626
Sunny, 70s

Low-Flow Readings:

Date Time	Elapsed Time	pH	Temperature	Specific Conductivity	RDO Concentration	Turbidity	ORP	Depth to Water	Flow
		+/- 0.1	+/- 0.5	+/- 3 %	+/- 0.3	+/- 10	+/- 10	+/- 0.3	
2/3/2025 4:01 PM	00:00	7.25 pH	21.69 °C	477.31 µS/cm	1.45 mg/L	1.65 NTU	204.6 mV	23.55 ft	150.00 ml/min
2/3/2025 4:06 PM	05:00	7.21 pH	21.39 °C	474.30 µS/cm	0.40 mg/L	1.50 NTU	196.9 mV	23.70 ft	150.00 ml/min
2/3/2025 4:11 PM	10:00	7.19 pH	21.30 °C	474.36 µS/cm	0.30 mg/L	1.47 NTU	190.9 mV	23.80 ft	150.00 ml/min
2/3/2025 4:16 PM	15:00	7.18 pH	21.29 °C	473.20 µS/cm	0.27 mg/L	1.68 NTU	169.5 mV	23.80 ft	150.00 ml/min
2/3/2025 4:21 PM	20:00	7.17 pH	21.32 °C	472.76 µS/cm	0.24 mg/L	1.18 NTU	137.5 mV	23.80 ft	150.00 ml/min
2/3/2025 4:26 PM	25:00	7.17 pH	21.35 °C	472.96 µS/cm	0.23 mg/L	1.02 NTU	92.8 mV	23.80 ft	150.00 ml/min

Samples

Sample ID:	Description:

Created using VuSitu from In-Situ, Inc.

Low-Flow Test Report:

Test Date / Time: 2/4/2025 9:20:11 AM
Project: Plant McIntosh AP-1
Operator Name: C.Klamke

Location Name: MGWA-6A **Well Diameter: 2 in** **Casing Type: PVC** **Screen Length: 10 ft** **Top of Screen: 29.67 ft** **Total Depth: 39.67 ft** **Initial Depth to Water: 22.2 ft**	**Pump Type: Peristaltic Pump** **Tubing Type: Poly** **Tubing Inner Diameter: 0.17 in** **Pump Intake From TOC: 34 ft** **Estimated Total Volume Pumped: 4.5 liter** **Flow Cell Volume: 130 ml** **Final Flow Rate: 150 ml/min** **Final Draw Down: 17 in**	**Instrument Used: Aqua TROLL 500** **Serial Number: 1183974**

Test Notes:
Clear 59, sample time 0950

Low-Flow Readings:

Date Time	Elapsed Time	pH	Temperature	Specific Conductivity	RDO Concentration	Turbidity	ORP	Depth to Water	Flow
		+/- 0.1	+/- 3	+/- 5 %	+/- 10 %	+/- 10	+/- 25	+/- 0.5	
2/4/2025 9:20 AM	00:00	7.15 pH	15.57 °C	0.07 µS/cm	10.09 mg/L	4.07 NTU	239.4 mV	22.82 ft	150.00 ml/min
2/4/2025 9:25 AM	05:00	7.42 pH	19.22 °C	459.38 µS/cm	0.68 mg/L	2.58 NTU	-80.4 mV	23.11 ft	150.00 ml/min
2/4/2025 9:30 AM	10:00	7.44 pH	19.61 °C	456.69 µS/cm	0.47 mg/L	1.96 NTU	-80.1 mV	23.32 ft	150.00 ml/min
2/4/2025 9:35 AM	15:00	7.44 pH	20.07 °C	457.41 µS/cm	0.37 mg/L	1.45 NTU	-91.7 mV	23.49 ft	150.00 ml/min
2/4/2025 9:40 AM	20:00	7.42 pH	20.14 °C	457.30 µS/cm	0.29 mg/L	1.39 NTU	-96.7 mV	23.56 ft	150.00 ml/min
2/4/2025 9:45 AM	25:00	7.43 pH	20.32 °C	457.66 µS/cm	0.25 mg/L	0.99 NTU	-101.7 mV	23.60 ft	150.00 ml/min
2/4/2025 9:50 AM	30:00	7.42 pH	20.23 °C	457.18 µS/cm	0.23 mg/L	0.78 NTU	-102.7 mV	23.62 ft	150.00 ml/min

Samples

Sample ID:	Description:

Low-Flow Test Report:

Test Date / Time: 2/4/2025 3:07:26 PM
Project: Plant McIntosh AP-1
Operator Name: J. May

Location Name: MGWC-7 **Well Diameter: 2 in** **Casing Type: PVC** **Screen Length: 10 ft** **Top of Screen: 32.29 ft** **Total Depth: 42.29 ft** **Initial Depth to Water: 23.99 ft**	**Pump Type: Peristaltic Pump** **Tubing Type: Poly** **Tubing Inner Diameter: 0.17 in** **Pump Intake From TOC: 37 ft** **Estimated Total Volume Pumped: 3.75 liter** **Flow Cell Volume: 130 ml** **Final Flow Rate: 150 ml/min** **Final Draw Down: 4.92 in**	**Instrument Used: Aqua TROLL 500** **Serial Number: 1183949**

Test Notes:
Sample Time: 1532
Sunny, 70s

Low-Flow Readings:

Date Time	Elapsed Time	pH	Temperature	Specific Conductivity	RDO Concentration	Turbidity	ORP	Depth to Water	Flow
		+/- 0.1	+/- 3	+/- 5 %	+/- 10 %	+/- 10	+/- 25	+/- 0.3	
2/4/2025 3:07 PM	00:00	7.04 pH	24.00 °C	477.66 µS/cm	2.91 mg/L	0.83 NTU	-29.6 mV	23.99 ft	150.00 ml/min
2/4/2025 3:12 PM	05:00	6.92 pH	22.80 °C	486.45 µS/cm	0.60 mg/L	1.19 NTU	-63.1 mV	24.40 ft	150.00 ml/min
2/4/2025 3:17 PM	10:00	6.72 pH	22.63 °C	489.07 µS/cm	0.33 mg/L	1.10 NTU	-66.4 mV	24.40 ft	150.00 ml/min
2/4/2025 3:22 PM	15:00	6.69 pH	22.41 °C	482.53 µS/cm	0.25 mg/L	0.51 NTU	-71.2 mV	24.40 ft	150.00 ml/min
2/4/2025 3:27 PM	20:00	6.70 pH	22.17 °C	478.81 µS/cm	0.21 mg/L	0.52 NTU	-74.5 mV	24.40 ft	150.00 ml/min
2/4/2025 3:32 PM	25:00	6.71 pH	22.10 °C	476.69 µS/cm	0.18 mg/L	0.50 NTU	-76.5 mV	24.40 ft	150.00 ml/min

Samples

Sample ID:	Description:

Low-Flow Test Report:

Test Date / Time: 2/4/2025 1:59:19 PM
Project: Plant McIntosh AP-1
Operator Name: J. May

Location Name: MGWC-8 **Well Diameter: 2 in** **Casing Type: PVC** **Screen Length: 10 ft** **Top of Screen: 42.56 ft** **Total Depth: 52.56 ft** **Initial Depth to Water: 34.57 ft**	**Pump Type: Portable Bladder Pump** **Tubing Type: Poly** **Tubing Inner Diameter: 0.17 in** **Pump Intake From TOC: 47 ft** **Estimated Total Volume Pumped: 5 liter** **Flow Cell Volume: 130 ml** **Final Flow Rate: 200 ml/min** **Final Draw Down: 3.96 in**	**Instrument Used: Aqua TROLL 500** **Serial Number: 1183949**

Test Notes:
Sample Time: 1424
Sunny, 70s

Low-Flow Readings:

Date Time	Elapsed Time	pH	Temperature	Specific Conductivity	RDO Concentration	Turbidity	ORP	Depth to Water	Flow
		+/- 0.1	+/- 3	+/- 5 %	+/- 10 %	+/- 10	+/- 25	+/- 0.3	
2/4/2025 1:59 PM	00:00	7.49 pH	23.40 °C	739.91 µS/cm	0.81 mg/L	8.50 NTU	-154.8 mV	34.57 ft	200.00 ml/min
2/4/2025 2:04 PM	05:00	7.61 pH	22.53 °C	752.47 µS/cm	0.29 mg/L	6.49 NTU	-177.9 mV	34.90 ft	200.00 ml/min
2/4/2025 2:09 PM	10:00	7.64 pH	22.40 °C	756.77 µS/cm	0.24 mg/L	3.79 NTU	-178.5 mV	34.90 ft	200.00 ml/min
2/4/2025 2:14 PM	15:00	7.63 pH	22.21 °C	755.99 µS/cm	0.22 mg/L	3.37 NTU	-185.0 mV	34.90 ft	200.00 ml/min
2/4/2025 2:19 PM	20:00	7.64 pH	22.17 °C	754.40 µS/cm	0.19 mg/L	2.24 NTU	-188.0 mV	34.90 ft	200.00 ml/min
2/4/2025 2:24 PM	25:00	7.67 pH	22.06 °C	755.63 µS/cm	0.17 mg/L	1.90 NTU	-188.5 mV	34.90 ft	200.00 ml/min

Samples

Sample ID:	Description:

Created using VuSitu from In-Situ, Inc.

Low-Flow Test Report:

Test Date / Time: 2/4/2025 8:58:37 AM
Project: Plant McIntosh AP-1
Operator Name: J. May

Location Name: MGWA-10 **Well Diameter: 2 in** **Casing Type: PVC** **Screen Length: 10 ft** **Top of Screen: 43.09 ft** **Total Depth: 53.09 ft** **Initial Depth to Water: 17.27 ft**	**Pump Type: Peristaltic Pump** **Tubing Type: Poly** **Tubing Inner Diameter: 0.17 in** **Pump Intake From TOC: 48 ft** **Estimated Total Volume Pumped: 4 liter** **Flow Cell Volume: 130 ml** **Final Flow Rate: 100 ml/min** **Final Draw Down: 42.36 in**	**Instrument Used: Aqua TROLL 500** **Serial Number: 1183949**

Test Notes:
Sample Time: 0938
Sunny, 60s

Low-Flow Readings:

Date Time	Elapsed Time	pH	Temperature	Specific Conductivity	RDO Concentration	Turbidity	ORP	Depth to Water	Flow
		+/- 0.1	+/- 3	+/- 5 %	+/- 10 %	+/- 10	+/- 25	+/- 0.3	
2/4/2025 8:58 AM	00:00	5.69 pH	18.80 °C	56.38 µS/cm	4.59 mg/L	1.03 NTU	187.6 mV	17.27 ft	100.00 ml/min
2/4/2025 9:03 AM	05:00	5.48 pH	19.63 °C	53.88 µS/cm	2.42 mg/L	0.51 NTU	207.1 mV	18.40 ft	100.00 ml/min
2/4/2025 9:08 AM	10:00	5.45 pH	20.07 °C	51.70 µS/cm	2.24 mg/L	0.56 NTU	209.9 mV	19.00 ft	100.00 ml/min
2/4/2025 9:13 AM	15:00	5.44 pH	20.29 °C	51.36 µS/cm	2.18 mg/L	0.38 NTU	211.6 mV	19.50 ft	100.00 ml/min
2/4/2025 9:18 AM	20:00	5.42 pH	20.48 °C	51.54 µS/cm	2.15 mg/L	0.55 NTU	212.5 mV	19.90 ft	100.00 ml/min
2/4/2025 9:23 AM	25:00	5.41 pH	20.56 °C	51.09 µS/cm	2.12 mg/L	0.47 NTU	214.0 mV	20.30 ft	100.00 ml/min
2/4/2025 9:28 AM	30:00	5.41 pH	20.61 °C	51.20 µS/cm	2.14 mg/L	0.42 NTU	217.3 mV	20.60 ft	100.00 ml/min
2/4/2025 9:33 AM	35:00	5.40 pH	20.69 °C	51.41 µS/cm	2.13 mg/L	0.46 NTU	221.8 mV	20.80 ft	100.00 ml/min
2/4/2025 9:38 AM	40:00	5.40 pH	20.75 °C	51.08 µS/cm	2.12 mg/L	0.51 NTU	226.0 mV	20.80 ft	100.00 ml/min

Samples

Sample ID:	Description:

Low-Flow Test Report:

Test Date / Time: 2/4/2025 10:24:23 AM
Project: Plant McIntosh AP-1
Operator Name: J. May

Location Name: MGWA-11 **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: 21.54 ft**	**Pump Type: Peristaltic Pump** **Tubing Type: Poly** **Tubing Inner Diameter: 0.17 in** **Pump Intake From TOC: 50 ft** **Estimated Total Volume Pumped: 6.25 liter** **Flow Cell Volume: 130 ml** **Final Flow Rate: 250 ml/min** **Final Draw Down: 4.32 in**	**Instrument Used: Aqua TROLL 500** **Serial Number: 1183949**

Test Notes:
Sample Time: 1049
Sunny, 60s

Low-Flow Readings:

Date Time	Elapsed Time	pH	Temperature	Specific Conductivity	RDO Concentration	Turbidity	ORP	Depth to Water	Flow
		+/- 0.1	+/- 3	+/- 5 %	+/- 10 %	+/- 10	+/- 25	+/- 0.3	
2/4/2025 10:24 AM	00:00	7.43 pH	21.40 °C	235.15 µS/cm	3.24 mg/L	0.55 NTU	152.2 mV	21.54 ft	250.00 ml/min
2/4/2025 10:29 AM	05:00	7.64 pH	21.26 °C	241.01 µS/cm	0.42 mg/L	0.71 NTU	90.2 mV	21.90 ft	250.00 ml/min
2/4/2025 10:34 AM	10:00	7.65 pH	21.31 °C	269.12 µS/cm	0.24 mg/L	0.61 NTU	-119.8 mV	21.90 ft	250.00 ml/min
2/4/2025 10:39 AM	15:00	7.60 pH	21.29 °C	300.29 µS/cm	0.20 mg/L	0.50 NTU	-119.0 mV	21.90 ft	250.00 ml/min
2/4/2025 10:44 AM	20:00	7.61 pH	21.32 °C	301.92 µS/cm	0.18 mg/L	0.47 NTU	-127.3 mV	21.90 ft	250.00 ml/min
2/4/2025 10:49 AM	25:00	7.61 pH	21.39 °C	302.86 µS/cm	0.17 mg/L	0.43 NTU	-133.6 mV	21.90 ft	250.00 ml/min

Samples

Sample ID:	Description:

Low-Flow Test Report:

Test Date / Time: 2/4/2025 1:55:46 PM
Project: Plant McIntosh AP-1
Operator Name: C.Klamke

Location Name: MGWC-12 **Well Diameter: 2 in** **Casing Type: PVC** **Screen Length: 10 ft** **Top of Screen: 42.9 ft** **Total Depth: 52.9 ft** **Initial Depth to Water: 26.78 ft**	**Pump Type: Peristaltic Pump** **Tubing Type: Poly** **Tubing Inner Diameter: 0.17 in** **Pump Intake From TOC: 47 ft** **Estimated Total Volume Pumped: 6.3 liter** **Flow Cell Volume: 130 ml** **Final Flow Rate: 180 ml/min** **Final Draw Down: 0.8 ft**	**Instrument Used: Aqua TROLL 500** **Serial Number: 1183990**

Test Notes:
Sampled at 1430. Sunny 79 degrees. AP1-FB-01 poured here

Low-Flow Readings:

Date Time	Elapsed Time	pH	Temperature	Specific Conductivity	RDO Concentration	Turbidity	ORP	Depth to Water	Flow
		+/- 0.1	+/- 3	+/- 5 %	+/- 10 %	+/- 10	+/- 25	+/- 0.5	
2/4/2025 1:55 PM	00:00	6.96 pH	27.47 °C	326.79 µS/cm	4.59 mg/L	0.70 NTU	167.4 mV	27.31 ft	180.00 ml/min
2/4/2025 2:00 PM	05:00	6.62 pH	22.37 °C	320.27 µS/cm	1.25 mg/L	0.51 NTU	178.2 mV	27.48 ft	180.00 ml/min
2/4/2025 2:05 PM	10:00	6.60 pH	22.24 °C	321.78 µS/cm	1.06 mg/L	0.79 NTU	174.5 mV	27.53 ft	180.00 ml/min
2/4/2025 2:10 PM	15:00	6.65 pH	22.12 °C	321.06 µS/cm	0.91 mg/L	0.45 NTU	170.4 mV	27.54 ft	180.00 ml/min
2/4/2025 2:15 PM	20:00	6.66 pH	22.00 °C	321.46 µS/cm	0.81 mg/L	0.34 NTU	156.7 mV	27.55 ft	180.00 ml/min
2/4/2025 2:20 PM	25:00	6.70 pH	21.84 °C	319.53 µS/cm	0.55 mg/L	0.33 NTU	103.4 mV	27.56 ft	180.00 ml/min
2/4/2025 2:25 PM	30:00	6.79 pH	21.64 °C	312.40 µS/cm	0.48 mg/L	0.32 NTU	77.3 mV	27.58 ft	180.00 ml/min
2/4/2025 2:30 PM	35:00	6.75 pH	21.63 °C	309.01 µS/cm	0.40 mg/L	0.56 NTU	52.1 mV	27.58 ft	180.00 ml/min

Samples

Sample ID:	Description:

Low-Flow Test Report:

Test Date / Time: 2/5/2025 12:11:43 PM
Project: Plant McIntosh AP-1
Operator Name: J. May

Location Name: MGWC-19 **Well Diameter: 2 in** **Casing Type: PVC** **Screen Length: 10 ft** **Top of Screen: 62.7 ft** **Total Depth: 72.7 ft** **Initial Depth to Water: 24.5 ft**	**Pump Type: Peristaltic Pump** **Tubing Type: Poly** **Tubing Inner Diameter: 0.17 in** **Pump Intake From TOC: 67 ft** **Estimated Total Volume Pumped: 5.9 liter** **Flow Cell Volume: 130 ml** **Final Flow Rate: 200 ml/min** **Final Draw Down: 1.77 ft**	**Instrument Used: Aqua TROLL 500** **Serial Number: 1183949**

Test Notes:
Sampled at 1241. Sunny 74 degrees.

Low-Flow Readings:

Date Time	Elapsed Time	pH	Temperature	Specific Conductivity	RDO Concentration	Turbidity	ORP	Depth to Water	Flow
		+/- 0.1	+/- 3	+/- 5 %	+/- 10 %	+/- 10	+/- 25	+/- 0.3	
2/5/2025 12:11 PM	00:00	7.78 pH	23.32 °C	639.02 µS/cm	2.73 mg/L	2.86 NTU	-114.9 mV	25.32 ft	200.00 ml/min
2/5/2025 12:16 PM	05:00	7.78 pH	22.93 °C	688.92 µS/cm	0.38 mg/L	2.47 NTU	-153.1 mV	25.63 ft	200.00 ml/min
2/5/2025 12:21 PM	10:00	7.77 pH	22.89 °C	687.06 µS/cm	0.30 mg/L	1.84 NTU	-158.1 mV	26.02 ft	200.00 ml/min
2/5/2025 12:26 PM	14:56	7.77 pH	23.11 °C	683.50 µS/cm	0.28 mg/L	2.08 NTU	-159.2 mV	26.16 ft	200.00 ml/min
2/5/2025 12:31 PM	19:56	7.77 pH	23.03 °C	678.99 µS/cm	0.25 mg/L	2.02 NTU	-157.9 mV	26.22 ft	200.00 ml/min
2/5/2025 12:36 PM	24:56	7.77 pH	22.93 °C	677.35 µS/cm	0.24 mg/L	2.77 NTU	-161.2 mV	26.25 ft	200.00 ml/min
2/5/2025 12:41 PM	29:56	7.75 pH	22.71 °C	676.80 µS/cm	0.23 mg/L	3.10 NTU	-157.7 mV	26.27 ft	200.00 ml/min

Samples

Sample ID:	Description:

Created using VuSitu from In-Situ, Inc.

Low-Flow Test Report:

Test Date / Time: 2/4/2025 3:45:04 PM
Project: Plant McIntosh AP-1
Operator Name: C.Klamke

Location Name: MGWC-20 **Well Diameter: 2 in** **Casing Type: PVC** **Screen Length: 10 ft** **Top of Screen: 44.77 ft** **Total Depth: 54.77 ft** **Initial Depth to Water: 24.71 ft**	**Pump Type: Peristaltic Pump** **Tubing Type: Poly** **Tubing Inner Diameter: 0.17 in** **Pump Intake From TOC: 49 ft** **Estimated Total Volume Pumped: 6 liter** **Flow Cell Volume: 90 ml** **Final Flow Rate: 200 ml/min** **Final Draw Down: 0.71 ft**	**Instrument Used: Aqua TROLL 400** **Serial Number: 965658**

Test Notes:
Sampled at 1615. Sunny 79 degrees. AP1-FB-02 poured here

Low-Flow Readings:

Date Time	Elapsed Time	pH	Temperature	Specific Conductivity	RDO Concentration	Turbidity	ORP	Depth to Water	Flow
		+/- 0.1	+/- 3	+/- 5 %	+/- 10 %	+/- 10	+/- 25	+/- 0.5	
2/4/2025 3:45 PM	00:00	6.92 pH	27.69 °C	318.54 µS/cm	1.86 mg/L	1.72 NTU	102.4 mV	25.29 ft	200.00 ml/min
2/4/2025 3:50 PM	05:00	6.71 pH	23.52 °C	343.53 µS/cm	1.07 mg/L	1.32 NTU	86.8 mV	25.39 ft	200.00 ml/min
2/4/2025 3:55 PM	10:00	6.57 pH	23.27 °C	348.71 µS/cm	0.73 mg/L	1.69 NTU	79.8 mV	25.42 ft	200.00 ml/min
2/4/2025 4:00 PM	15:00	6.48 pH	23.06 °C	350.88 µS/cm	0.55 mg/L	2.80 NTU	75.7 mV	25.42 ft	200.00 ml/min
2/4/2025 4:05 PM	20:00	6.43 pH	22.47 °C	357.89 µS/cm	0.42 mg/L	1.99 NTU	72.8 mV	25.42 ft	200.00 ml/min
2/4/2025 4:10 PM	25:00	6.41 pH	22.60 °C	359.43 µS/cm	0.34 mg/L	2.82 NTU	70.4 mV	25.42 ft	200.00 ml/min
2/4/2025 4:15 PM	30:00	6.42 pH	22.42 °C	365.69 µS/cm	0.29 mg/L	2.11 NTU	68.4 mV	25.42 ft	200.00 ml/min

Samples

Sample ID:	Description:

Created using VuSitu from In-Situ, Inc.

Field Instrumentation Calibration Form

ATLANTIC COAST CONSULTING, INC.

Site Name: McIntosh AP-1 Date: 02-03-25

Calibrated By: J. May Field Conditions: Sunny, 70s

Instrument	Manufactuer/ Model	Serial Number
Water Quality Meter	AquaTroll 500	1183949
Turbidity Meter	Hach 2100Q	24010D000462

Calibration Standard Information				
Parameter	**Standard**	**Lot #**	**Date of Expiration**	**Brand**
D.O. (%)	N/A	DI Water	—	—
pH (SU)	4.00	4611219	09/26	PINE
pH (SU)	7.00	4G10109	09/26	PINE
pH (SU)	10.00	4G61192	01/26	PINE
Specific Conductance (µS/cm)	1,413	4GH0240	08/25	PINE
ORP (mV)	240.0	4GJ1196	07/25	PINE

	Standard	**Lot #**	**Date of Expiration**	**Brand**
Turbidity (NTU)	0	DI Water	—	—
	10	A4029	5/25	PINE
	20	A3363	4/25	PINE
	100	A4002	4/25	PINE

Calibration					
Time Start: 1515		**Time Finish:** 1535			
Parameter	**Standard**	**Calibration Value**	**Calibration Solution Temperature (°C)**	**Acceptance Criteria**	**Reference**
D.O. (%)	N/A	99.73	24.43	± 10%	EPA 2023
pH (SU)	4.00	4.00	21.56	± 0.1	GWMP
pH (SU)	7.00	7.02	20.37	± 0.1	GWMP
pH (SU)	10.00	10.05	21.00	± 0.1	GWMP
Specific Conductance (µS/cm)	1,413	1413.0	20.62	± 10% of standard	NA
ORP (mV)	240.0	234.9	20.75	± 10	EPA 2023

	Standard	**Calibration Value**	**Acceptance Criteria**	**Reference**
Turbidity (NTU)	0	0.37	± 10% of standard	EPA 2023
	10	10.4		
	20	20.5		
	100	100		

Calibration Check					
Time Start		**Time Finish**			
Parameter	**Standard**	**Calibration Value**	**Calibration Solution Temperature (°C)**	**Acceptance Criteria**	**Reference**
pH (SU)	4.00			± 0.1	GWMP
pH (SU)	7.00			± 0.1	GWMP
pH (SU)	10.00			± 0.1	GWMP
Specific Conductance (µS/cm)	1,413			± 10% of standard	EPA 2023

	Standard	**Calibration Value**	**Acceptance Criteria**	**Reference**
Turbidity (NTU)	0		± 10% of standard	EPA 2023
	10			
	20			
	100			

Notes:

Field Instrumentation Calibration Form

ATLANTIC COAST CONSULTING, INC.

Site Name: Plant McIntosh AP-1 Date: 02-04-25

Calibrated By: J. May Field Conditions: Sunny, 50s

Instrument	Manufactuer/ Model	Serial Number
Water Quality Meter	AquaTroll 500	1183949
Turbidity Meter	Hach 2100Q	24010D000462

Calibration Standard Information				
Parameter	**Standard**	**Lot #**	**Date of Expiration**	**Brand**
D.O. (%)	N/A	DI Water	—	—
pH (SU)	4.00	4G11219	09/26	PINE
pH (SU)	7.00	4G10109	09/26	PINE
pH (SU)	10.00	4G61192	01/26	PINE
Specific Conductance (µS/cm)	1,413	4GH0240	08/25	PINE
ORP (mV)	240.0	4GJ1196	07/25	PINE

	Standard	**Lot #**	**Date of Expiration**	**Brand**
Turbidity (NTU)	0	DI Water	—	—
	10	A4029	05/25	Hach
	20	A33603	04/25	Hach
	100	A4002	04/25	Hach

Calibration					
Time Start: 0805		**Time Finish:** 0825			
Parameter	**Standard**	**Calibration Value**	**Calibration Solution Temperature (°C)**	**Acceptance Criteria**	**Reference**
D.O. (%)	N/A	99.97	12.96	± 10%	EPA 2023
pH (SU)	4.00	4.00	13.22	± 0.1	GWMP
pH (SU)	7.00	7.04	13.42	± 0.1	GWMP
pH (SU)	10.00	10.11	13.18	± 0.1	GWMP
Specific Conductance (µS/cm)	1,413	1411.6	13.43	± 10% of standard	NA
ORP (mV)	240.0	244.5	13.40	± 10	EPA 2023

	Standard	**Calibration Value**	**Acceptance Criteria**	**Reference**
Turbidity (NTU)	0	0.43	± 10% of standard	EPA 2023
	10	10.5		
	20	20.2		
	100	101		

Calibration Check					
Time Start 1330		**Time Finish** 1340			
Parameter	**Standard**	**Calibration Value**	**Calibration Solution Temperature (°C)**	**Acceptance Criteria**	**Reference**
pH (SU)	4.00	4.00	24.54	± 0.1	GWMP
pH (SU)	7.00	7.00	23.35	± 0.1	GWMP
pH (SU)	10.00	10.00	23.92	± 0.1	GWMP
Specific Conductance (µS/cm)	1,413	1413.0	23.50	± 10% of standard	EPA 2023

	Standard	**Calibration Value**	**Acceptance Criteria**	**Reference**
Turbidity (NTU)	0	0.42	± 10% of standard	EPA 2023
	10	10.1		
	20	21.0		
	100	99.8		

Notes:

Field Instrumentation Calibration Form

ATLANTIC COAST CONSULTING, INC.

Site Name: Plant McIntosh AP-1 Date: 07-05-25

Calibrated By: J. May Field Conditions: Sunny, 50s

Instrument	Manufactuer/ Model	Serial Number
Water Quality Meter	AquaTroll 500	11839449
Turbidity Meter	Hach 2100Q	24010D000462

Calibration Standard Information				
Parameter	**Standard**	**Lot #**	**Date of Expiration**	**Brand**
D.O. (%)	N/A	DI Water	—	—
pH (SU)	4.00	4G1219	09/26	PINE
pH (SU)	7.00	4G1D109	09/26	PINE
pH (SU)	10.00	4G61192	01/26	PINE
Specific Conductance (µS/cm)	1,413	4GH0240	08/25	PINE
ORP (mV)	240.0	4GJ1196	07/25	PINE

	Standard	**Lot #**	**Date of Expiration**	**Brand**
Turbidity (NTU)	0	DI Water	—	—
	10	A4029	05/25	Hach
	20	A33603	04/25	Hach
	100	A4002	04/25	Hach

Calibration					
Time Start: 0810		**Time Finish:** 0815			
Parameter	**Standard**	**Calibration Value**	**Calibration Solution Temperature (°C)**	**Acceptance Criteria**	**Reference**
D.O. (%)	N/A	99.98	14.94	± 10%	EPA 2023
pH (SU)	4.00	4.00	15.24	± 0.1	GWMP
pH (SU)	7.00	7.04	15.10	± 0.1	GWMP
pH (SU)	10.00	10.11	15.01	± 0.1	GWMP
Specific Conductance (µS/cm)	1,413	1413.0	15.30	± 10% of standard	NA
ORP (mV)	240.0	241.25	15.27	± 10	EPA 2023

	Standard	**Calibration Value**	**Acceptance Criteria**	**Reference**
Turbidity (NTU)	0	0.13	± 10% of standard	EPA 2023
	10	10.0		
	20	20.6		
	100	102		

Calibration Check					
Time Start 1305		**Time Finish** 1315			
Parameter	**Standard**	**Calibration Value**	**Calibration Solution Temperature (°C)**	**Acceptance Criteria**	**Reference**
pH (SU)	4.00	4.01	20.68	± 0.1	GWMP
pH (SU)	7.00	7.00	21.70	± 0.1	GWMP
pH (SU)	10.00	10.03	21.45	± 0.1	GWMP
Specific Conductance (µS/cm)	1,413	1413.0	20.99	± 10% of standard	EPA 2023

	Standard	**Calibration Value**	**Acceptance Criteria**	**Reference**
Turbidity (NTU)	0	0.20	± 10% of standard	EPA 2023
	10	10.1		
	20	19.9		
	100	99.8		

Notes:

Field Instrumentation Calibration Form

ATLANTIC COAST CONSULTING, INC.

Site Name: McIntosh AP-1 Date: 2-3-25

Calibrated By: T. Gable / C. Klanke Field Conditions: Sunny 72°F

Instrument	Manufactuer/ Model	Serial Number
Water Quality Meter	AquaTroll 500	1193974
Turbidity Meter	HACH 2100Q	24060D000186

Calibration Standard Information

Parameter	Standard	Lot #	Date of Expiration	Brand
D.O. (%)	N/A	DI H_2O	N/A	N/A
pH (SU)	4.00	4GK0127	5/26	PINE
pH (SU)	7.00	4GD1667	4/26	PINE
pH (SU)	10.00	3GG0538	7/25	PINE
Specific Conductance (µS/cm)	1,413	4GF0677	5/25	PINE
ORP (mV)	240.0	4GE1370	2/25	PINE

	Standard	Lot #	Date of Expiration	Brand
Turbidity (NTU)	0	DI H_2O	N/A	N/A
	10	AH029	5/25	HACH
	20	A3363	4/25	HACH
	100	AH002	4/25	HACH

Calibration

Time Start: 1500 Time Finish: 1520

Parameter	Standard	Calibration Value	Calibration Solution Temperature (°C)	Acceptance Criteria	Reference
D.O. (%)	N/A	103.14	24.37	± 10%	EPA 2023
pH (SU)	4.00	4.00	23.87	± 0.1	GWMP
pH (SU)	7.00	7.00	23.89	± 0.1	GWMP
pH (SU)	10.00	10.00	24.09	± 0.1	GWMP
Specific Conductance (µS/cm)	1,413	1341	24.25	± 10% of standard	NA
ORP (mV)	240.0	235.3	24.46	± 10	EPA 2023

	Standard	Calibration Value	Acceptance Criteria	Reference
Turbidity (NTU)	0	0.38	± 10% of standard	EPA 2023
	10	10.5		
	20	19.5		
	100	98.2		

Calibration Check

Time Start Time Finish

Parameter	Standard	Calibration Value	Calibration Solution Temperature (°C)	Acceptance Criteria	Reference
pH (SU)	4.00			± 0.1	GWMP
pH (SU)	7.00			± 0.1	GWMP
pH (SU)	10.00			± 0.1	GWMP
Specific Conductance (µS/cm)	1,413			± 10% of standard	EPA 2023

	Standard	Calibration Value	Acceptance Criteria	Reference
Turbidity (NTU)	0		± 10% of standard	EPA 2023
	10			
	20			
	100			

Only one well sampled, therefore no calibration check needed.

Field Instrumentation Calibration Form

ATLANTIC COAST CONSULTING, INC.

Site Name: Plant McIntosh AP-1 Date: 2-4-25

Calibrated By: T. Gable / C. Klamke Field Conditions: Foggy 54°F

Instrument	Manufactuer/ Model	Serial Number
Water Quality Meter	AquaTroll 500	1183974
Turbidity Meter	HACH 2100Q	24010C000426

Calibration Standard Information				
Parameter	Standard	Lot #	Date of Expiration	Brand
D.O. (%)	N/A	DI H_2O	N/A	N/A
pH (SU)	4.00	4GE0127	5/26	PINE
pH (SU)	7.00	4GD1667	4/26	PINE
pH (SU)	10.00	3GG0538	7/25	PINE
Specific Conductance (µS/cm)	1,413	4GF0677	5/25	PINE
ORP (mV)	240.0	4GE1370	2/25	PINE

	Standard	Lot #	Date of Expiration	Brand
Turbidity (NTU)	0	DI H_2O	N/A	N/A
	10	A4029	5/25	HACH
	20	A3363	4/25	HACH
	100	A4002	4/25	HACH

Calibration					
Time Start: 0820		Time Finish: 0840			
Parameter	Standard	Calibration Value	Calibration Solution Temperature (°C)	Acceptance Criteria	Reference
D.O. (%)	N/A	99.53	12.80	± 10%	EPA 2023
pH (SU)	4.00	4.02	12.94	± 0.1	GWMP
pH (SU)	7.00	7.01	13.30	± 0.1	GWMP
pH (SU)	10.00	10.11	13.25	± 0.1	GWMP
Specific Conductance (µS/cm)	1,413	1388	12.36	± 10% of standard	NA
ORP (mV)	240.0	245.3	12.53	± 10	EPA 2023

	Standard	Calibration Value	Acceptance Criteria	Reference
Turbidity (NTU)	0	0.33	± 10% of standard	EPA 2023
	10	10.9		
	20	21.8		
	100	103		

Calibration Check					
Time Start		Time Finish			
Parameter	Standard	Calibration Value	Calibration Solution Temperature (°C)	Acceptance Criteria	Reference
pH (SU)	4.00			± 0.1	GWMP
pH (SU)	7.00			± 0.1	GWMP
pH (SU)	10.00			± 0.1	GWMP
Specific Conductance (µS/cm)	1,413			± 10% of standard	EPA 2023

	Standard	Calibration Value	Acceptance Criteria	Reference
Turbidity (NTU)	0		± 10% of standard	EPA 2023
	10			
	20			
	100			

*Switched to AquaTroll ~~574751~~ 1183990 at midday, no midday cal

Field Instrumentation Calibration Form

ATLANTIC COAST CONSULTING, INC.

Site Name: Plant McIntosh AP-1 Date: 2-4-25

Calibrated By: T. Goble Field Conditions: Sunny 79°F

Instrument	Manufactuer/ Model	Serial Number
Water Quality Meter	AquaTroll 400	965658
Turbidity Meter	HACH 2100Q	24010D000426

Calibration Standard Information				
Parameter	**Standard**	**Lot #**	**Date of Expiration**	**Brand**
D.O. (%)	N/A	DI H_2O	N/A	N/A
pH (SU)	4.00	4GE0127	5/26	PINE
pH (SU)	7.00	4GC0526	3/26	PINE
pH (SU)	10.00	4GD0774	4/26	PINE
Specific Conductance (µS/cm)	1,413	4GE0677	5/25	PINE
ORP (mV)	240.0	4GG0439	4/25	PINE

	Standard	Lot #	Date of Expiration	Brand
Turbidity (NTU)	0	DI H_2O	N/A	N/A
	10	A4029	5/25	HACH
	20	A3363	4/25	HACH
	100	A4002	4/25	HACH

Calibration					
Time Start: 1520		**Time Finish:** 1540			
Parameter	**Standard**	**Calibration Value**	**Calibration Solution Temperature (°C)**	**Acceptance Criteria**	**Reference**
D.O. (%)	N/A	~~DI~~ 107.8	28.43	± 10%	EPA 2023
pH (SU)	4.00	4.00	28.99	± 0.1	GWMP
pH (SU)	7.00	7.00	27.10	± 0.1	GWMP
pH (SU)	10.00	10.00	25.00	± 0.1	GWMP
Specific Conductance (µS/cm)	1,413	1489	25.14	± 10% of standard	NA
ORP (mV)	240.0	240	29.12	± 10	EPA 2023

	Standard	Calibration Value	Acceptance Criteria	Reference
Turbidity (NTU)	0	0.31	± 10% of standard	EPA 2023
	10	10.7		
	20	21.6		
	100	102		

Calibration Check					
Time Start		**Time Finish**			
Parameter	**Standard**	**Calibration Value**	**Calibration Solution Temperature (°C)**	**Acceptance Criteria**	**Reference**
pH (SU)	4.00			± 0.1	GWMP
pH (SU)	7.00			± 0.1	GWMP
pH (SU)	10.00			± 0.1	GWMP
Specific Conductance (µS/cm)	1,413			± 10% of standard	EPA 2023

	Standard	Calibration Value	Acceptance Criteria	Reference
Turbidity (NTU)	0		± 10% of standard	EPA 2023
	10			
	20			
	100			

Calibrated 1520, no midday cal

Field Instrumentation Calibration Form

ATLANTIC COAST CONSULTING, INC.

Site Name: Plant McIntosh AP-1 Date: 2/4/25

Calibrated By: C. Klampe Field Conditions: Sunny 78°F

Instrument	Manufactuer/ Model	Serial Number
Water Quality Meter	~~Solinst/10PT~~	~~574751~~ 1183990 Aquatroll 500
Turbidity Meter	Hach / 2100Q	24010D000426

Calibration Standard Information				
Parameter	**Standard**	**Lot #**	**Date of Expiration**	**Brand**
D.O. (%)	N/A	$DI H_2O$	N/A	N/A
pH (SU)	4.00	4GG1238	7/26	Pine
pH (SU)	7.00	4GC0526	3/26	Pine
pH (SU)	10.00	3GG0538	7/25	Pine
Specific Conductance (µS/cm)	1,413	4GE0258	5/25	Pine
ORP (mV)	240.0	4GG0438	4/25	Pine

	Standard	**Lot #**	**Date of Expiration**	**Brand**
Turbidity (NTU)	0	$DI H_2O$	N/A	N/A
	10	A4029	5/25	Hach
	20	A3363	4/25	Hach
	100	A4002	4/25	Hach

Calibration					
Time Start: 1310		**Time Finish:** 1330			
Parameter	**Standard**	**Calibration Value**	**Calibration Solution Temperature (°C)**	**Acceptance Criteria**	**Reference**
D.O. (%)	N/A	100.29	27.98	± 10%	EPA 2023
pH (SU)	4.00	4.00	24.16	± 0.1	GWMP
pH (SU)	7.00	7.00	24.29	± 0.1	GWMP
pH (SU)	10.00	10.00	24.13	± 0.1	GWMP
Specific Conductance (µS/cm)	1,413	1413	23.32	± 10% of standard	NA
ORP (mV)	240.0	245.1	23.95	± 10	EPA 2023

	Standard	**Calibration Value**	**Acceptance Criteria**	**Reference**
Turbidity (NTU)	0	0.50	± 10% of standard	EPA 2023
	10	10.7		
	20	20.5		
	100	98.7		

Calibration Check					
Time Start		**Time Finish**			
Parameter	**Standard**	**Calibration Value**	**Calibration Solution Temperature (°C)**	**Acceptance Criteria**	**Reference**
pH (SU)	4.00			± 0.1	GWMP
pH (SU)	7.00			± 0.1	GWMP
pH (SU)	10.00			± 0.1	GWMP
Specific Conductance (µS/cm)	1,413			± 10% of standard	EPA 2023

	Standard	**Calibration Value**	**Acceptance Criteria**	**Reference**
Turbidity (NTU)	0		± 10% of standard	EPA 2023
	10			
	20			
	100			

Calibrated at 1330 (switched meters), no midday cal

Well Inspection

Site Name: Plant Mcintosh AP1

Date: 2/3/2025

Permit Number: 051-011D(CCR)

Field Conditions: 72 °F

Well ID:	Location/Identification			
	Visible and accessible	Properly identified with correct well ID	Located in high traffic area; does the well require protection from traffic	Acceptable drainage around well (no standing water, not located in obvious drainage flow path)
MGWC-1	Yes	Yes	No	Yes
MGWC-2	Yes	Yes	No	Yes
MGWC-3	Yes	Yes	No	Yes
MGWC-4	Yes	Yes	No	Yes
MGWA-5	Yes	Yes	No	Yes
MGWA-6	Yes	Yes	No	Yes
MGWA-6A	Yes	Yes	No	Yes
MGWC-7	Yes	Yes	No	Yes
MGWC-8	Yes	Yes	No	Yes
MGWA-9	Yes	Yes	No	Yes
MGWA-10	Yes	Yes	No	Yes
MGWA-11	Yes	Yes	No	Yes
MGWC-12	Yes	Yes	No	Yes
PZ-13	Yes	Yes	No	Yes
PZ-14	Yes	Yes	No	Yes
PZ-15	Yes	Yes	No	Yes
PZ-16	Yes	Yes	No	Yes
PZ-17	Yes	Yes	No	Yes
PZ-18	Yes	Yes	No	Yes
MGWC-19	Yes	Yes	No	Yes
MGWC-20	Yes	Yes	No	Yes
MGWC-21	Yes	Yes	No	Yes
MGWC-22	Yes	Yes	No	Yes
MGWC-23	Yes	Yes	No	Yes
MGWA-24	Yes	Yes	No	Yes

Well Inspection

Site Name: Plant Mcintosh AP1 Date: 2/3/2025

Permit Number: 051-011D(CCR) Field Conditions: 72 °F

Well ID:	Protective Casing				
	Free from apparent damage and able to be secured	No degradation or deterioration	Functioning weep hole	Annular space clear of debris and water, or filled with pea gravel/sand	Locked and is the lock in good condition
MGWC-1	Yes	Yes	Yes	Yes	Yes
MGWC-2	Yes	Yes	Yes	Yes	Yes
MGWC-3	Yes	Yes	Yes	Yes	Yes
MGWC-4	Yes	Yes	Yes	Yes	Yes
MGWA-5	Yes	Yes	Yes	Yes	Yes
MGWA-6	Yes	Yes	Yes	Yes	Yes
MGWA-6A	Yes	Yes	Yes	Yes	Yes
MGWC-7	Yes	Yes	Yes	Yes	Yes
MGWC-8	Yes	Yes	Yes	Yes	Yes
MGWA-9	Yes	Yes	Yes	Yes	Yes
MGWA-10	Yes	Yes	Yes	Yes	Yes
MGWA-11	Yes	Yes	Yes	Yes	Yes
MGWC-12	Yes	Yes	Yes	Yes	Yes
PZ-13	Yes	Yes	Yes	Yes	Yes
PZ-14	Yes	Yes	Yes	Yes	Yes
PZ-15	Yes	Yes	Yes	Yes	Yes
PZ-16	Yes	Yes	Yes	Yes	Yes
PZ-17	Yes	Yes	Yes	Yes	Yes
PZ-18	Yes	Yes	Yes	Yes	Yes
MGWC-19	Yes	Yes	Yes	Yes	Yes
MGWC-20	Yes	Yes	Yes	Yes	Yes
MGWC-21	Yes	Yes	Yes	Yes	Yes
MGWC-22	Yes	Yes	Yes	Yes	Yes
MGWC-23	Yes	Yes	Yes	Yes	Yes
MGWA-24	Yes	Yes	Yes	Yes	Yes

Well Inspection

Site Name: Plant Mcintosh AP1 Date: 2/3/2025

Permit Number: 051-011D(CCR) Field Conditions: 72 °F

Well ID:	Surface Pad			Internal Casing		
	Good condition (not cracked/ broken)	Sloped away from the protective casing	In complete contact with the ground surface and stable	Cap prevents entry of foreign material into the well	Free of kinks/bends, or any obstructions from foreign objects (such as bailers)	Properly vented for equilibration of air pressure
MGWC-1	Yes	Yes	Yes	Yes	Yes	Yes
MGWC-2	Yes	Yes	Yes	Yes	Yes	Yes
MGWC-3	Yes	Yes	Yes	Yes	Yes	Yes
MGWC-4	Yes	Yes	Yes	Yes	Yes	Yes
MGWA-5	Yes	Yes	Yes	Yes	Yes	Yes
MGWA-6	Yes	Yes	Yes	Yes	Yes	Yes
MGWA-6A	Yes	Yes	Yes	Yes	Yes	Yes
MGWC-7	Yes	Yes	Yes	Yes	Yes	Yes
MGWC-8	Yes	Yes	Yes	Yes	Yes	Yes
MGWA-9	Yes	Yes	Yes	Yes	Yes	Yes
MGWA-10	Yes	Yes	Yes	Yes	Yes	Yes
MGWA-11	Yes	Yes	Yes	Yes	Yes	Yes
MGWC-12	Yes	Yes	Yes	Yes	Yes	Yes
PZ-13	Yes	Yes	Yes	Yes	Yes	Yes
PZ-14	Yes	Yes	Yes	Yes	Yes	Yes
PZ-15	Yes	Yes	Yes	Yes	Yes	Yes
PZ-16	Yes	Yes	Yes	Yes	Yes	Yes
PZ-17	Yes	Yes	Yes	Yes	Yes	Yes
PZ-18	Yes	Yes	Yes	Yes	Yes	Yes
MGWC-19	Yes	Yes	Yes	Yes	Yes	Yes
MGWC-20	Yes	Yes	Yes	Yes	Yes	Yes
MGWC-21	Yes	Yes	Yes	Yes	Yes	Yes
MGWC-22	Yes	Yes	Yes	Yes	Yes	Yes
MGWC-23	Yes	Yes	Yes	Yes	Yes	Yes
MGWA-24	Yes	Yes	Yes	Yes	Yes	Yes

Well Inspection

Site Name: Plant Mcintosh AP1

Date: 2/3/2025

Permit Number: 051-011D(CCR)

Field Conditions: 72 °F

Well ID:	Corrective actions as needed, by date:
MGWC-1	
MGWC-2	
MGWC-3	
MGWC-4	
MGWA-5	
MGWA-6	
MGWA-6A	
MGWC-7	
MGWC-8	
MGWA-9	
MGWA-10	
MGWA-11	
MGWC-12	
PZ-13	
PZ-14	
PZ-15	
PZ-16	
PZ-17	
PZ-18	
MGWC-19	
MGWC-20	
MGWC-21	
MGWC-22	
MGWC-23	
MGWA-24	

APPENDIX B

Statistical Analysis Reports

APPENDIX B

Statistical Analysis Reports
February 2025 Monitoring Event

GROUNDWATER STATS CONSULTING

August 29, 2025

Southern Company Services
Attn: Mr. Kevin Stephenson
241 Ralph McGill Blvd NE, Bin 10160
Atlanta, Georgia 30308

Re: Plant McIntosh Ash Pond 1 (AP-1)
Statistical Analysis February 2025

Dear Mr. Stephenson,

Groundwater Stats Consulting, formerly the statistical consulting division of Sanitas Technologies, is pleased to provide the February 2025 Semi-Annual Groundwater Detection and Assessment Monitoring statistical analysis for Georgia Power Company's Plant McIntosh AP-1. The analysis complies with the federal rule for the Disposal of Coal Combustion Residuals 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 for the Appendix III and IV parameters began in 2016, and at least 8 background samples were collected at each of the groundwater monitoring wells. Sampling is conducted on a semi-annual basis for all constituents. A list of all parameters is provided below.

The monitoring well network, as provided by Southern Company Services, consists of the following:

- **Upgradient well:** MGWA-5, MGWA-6, MGWA-6A, MGWA-10, and MGWA-11
- **Downgradient wells:** MGWC-1, MGWC-2, MGWC-3, MGWC-7, MGWC-8, and MGWC-12
- **Assessment wells:** MGWC-19 and MGWC-20

Note that assessment wells MGWC-19 and MGWC-20 were previously designated as piezometers. All Appendix III constituents and cobalt, fluoride, and lithium among Appendix IV constituents have been sampled. Data from assessment wells are plotted on time series and box plots, and Appendix IV parameters are evaluated with confidence intervals for assessment wells when a minimum of 4 samples have been collected. Currently, cobalt and lithium at well MGWC-20 have sufficient samples for confidence intervals.

Data were sent electronically to Groundwater Stats Consulting, and the statistical analysis was reviewed by Kristina Rayner, Founder and Senior Statistician for Groundwater Stats Consulting. In 2024, Georgia Power Company completed a data audit and migration of all CCR related groundwater data to the EarthSoft EQuIS Database Management Program (EQuIS). Data were then exported from EQuIS to Groundwater Stats Consulting (GSC) for use in completing this statistical analysis. Georgia Power Company contracted an independent third-party consultant, Environmental Resources Management (ERM), to support the data audit and migration to EQuIS. Based on the results of the audit and statistical analysis results from GSC, EQuIS will now be used by Georgia Power Company and its third-party geologists and engineers for management of data imported by independent third-party laboratories and data exported by Georgia Power Company and its Consultants. The data will be used in preparation of report submittals, modeling, strategic planning, and other purposes appropriate and consistent with EQuIS's data management and reporting tools and capabilities.

The Coal Combustion Residuals (CCR) program consists of the following constituents:

- **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

Note that when there are no detections present in downgradient wells for a given constituent, statistical analyses are not required. A summary of Appendix IV downgradient well/constituent pairs containing 100% non-detects follows this letter.

Time series plots for Appendix III and IV parameters at all wells are provided for the purpose of screening data at these 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. Values in background which have been flagged as outliers may be seen in a lighter font and as a disconnected symbol on the graphs. A summary of flagged outliers follows this report (Figure C).

In earlier analyses, data at all wells were evaluated for the following: 1) outliers; 2) trends; 3) most appropriate statistical method for Appendix III parameters based on site characteristics of groundwater data upgradient of the facility; and 4) eligibility of downgradient wells when intrawell statistical methods are recommended. Power curves were provided with the previous screening and demonstrated that the selected statistical methods for Appendix III parameters comply with the USEPA Unified Guidance. 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.

The original background screening was conducted in 2017 by MacStat Consulting. Values identified as outliers were flagged in the database and excluded prior to construction of statistical limits. Both intrawell and interwell prediction limits, combined with a 1-of-2 resample plan, were originally recommended. The Analysis of Variance (ANOVA) was used to statistically evaluate differences in average concentrations among upgradient wells, which assists in identifying the most appropriate statistical approach.

Interwell tests, which compare downgradient well data to statistical limits constructed from pooled upgradient well data, are appropriate when average concentrations are similar across upgradient wells. Intrawell tests, which compare compliance data from a single well to screened historical data within the same well, are appropriate when upgradient wells exhibit spatial variation; when statistical limits constructed from upgradient wells would not be conservative from a regulatory perspective; and when downgradient water quality is unimpacted compared to upgradient water quality for the same parameter. While data were further tested for intrawell eligibility during the screening, interwell methods will be used for all Appendix III constituents in accordance with Georgia EPD requirements.

Summary of Statistical Methods – Appendix III Parameters

Based on the earlier evaluation described above, the following method was selected:

- Interwell prediction limits, combined with a 1-of-2 resample plan for boron, calcium, chloride, fluoride, pH, sulfate, and TDS

Parametric prediction limits are utilized when the screened historical data follow a normal or transformed-normal distribution. When data cannot be normalized or the majority of

data are non-detects, a nonparametric test is utilized. While the false positive rate associated with the parametric limits is based on an annual 10% (5% per semi-annual event) as recommended by the EPA Unified Guidance (2009), the false positive rate associated with the nonparametric limits is dependent upon the available background sample size, number of future comparisons, and verification resample plan. The distribution of data is tested using the Shapiro-Wilk/Shapiro-Francia test for normality. After testing for normality and performing any adjustments as discussed below (US EPA, 2009), data are analyzed using either parametric or non-parametric prediction limits.

- No statistical analyses are required on wells and analytes containing 100% non-detects (USEPA Unified Guidance, 2009, Chapter 6).
- When data contain <15% non-detects, simple substitution of one-half the reporting limit is utilized in the statistical analysis. The reporting limit utilized for non-detects is the most recent practical quantification limit (PQL) as reported by the laboratory.
- When data contain between 15-50% non-detects, the Kaplan-Meier non-detect adjustment is applied to the background data for parametric limits. This technique adjusts the mean and standard deviation of the historical concentrations to account for concentrations below the reporting limit.
- Nonparametric prediction limits are used on data containing greater than 50% non-detects.

Natural systems continuously evolve due to physical changes made to the environment. Examples include capping a landfill, paving areas near a well, or lining a drainage channel to prevent erosion. Periodic updating of background statistical limits is necessary to accommodate these types of changes. In the interwell case, prediction limits are updated with upgradient well data during each event after careful screening for any new outliers. In some cases, deselecting the earlier portion of data may be necessary prior to construction of limits so that resulting statistical limits are conservative (lower) from a regulatory perspective and capable of rapidly detecting 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.

Statistical Analysis of Appendix III Parameters – February 2025

All Appendix III parameters were analyzed using interwell prediction limits. Background (upgradient) well data were reassessed for potential outliers during this analysis. When values in background have been flagged as outliers, the measurements may be seen in a lighter font and as a disconnected symbol on the time series graphs. Previously flagged measurements were confirmed and no additional values were flagged as outliers during this analysis. A summary of flagged values follows this report (Figure C).

Interwell Prediction Limits

Interwell prediction limits, combined with a 1-of-2 resample plan, were constructed using all historical upgradient well data through February 2025 (Figure D). Interwell prediction limits pool upgradient well data to establish a background limit for an individual constituent. The February 2025 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. When a resample confirms the initial exceedance, a statistically significant increase is identified and further research would be required to identify the cause of the exceedance (i.e., impact from the site, natural variation, or an off-site source). If the resample falls within the statistical limit, the initial exceedance is considered to be a false positive result and, therefore, no exceedance is noted and no further action is necessary. If no resample is collected, the original result is considered a confirmed exceedance. A summary table of the interwell prediction limits follows this letter and includes a list of exceedances. Exceedances were identified for the following well/constituent pairs:

- Boron: MGWC-1, MGWC-2, MGWC-3, MGWC-7, and MGWC-8
- Calcium: MGWC-1 and MGWC-8
- Chloride: MGWC-1, MGWC-2, MGWC-3, and MGWC-8
- Sulfate: MGWC-1, MGWC-2, MGWC-3, MGWC-7, and MGWC-8
- TDS: MGWC-1, MGWC-2, and MGWC-8

Trend Test Evaluation – Appendix III

When prediction limit exceedances are identified in downgradient wells, data are further evaluated using the Sen's Slope/Mann Kendall trend test to determine whether concentrations are statistically increasing, decreasing, or stable at the 99% confidence level (Figure E). Upgradient 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, which is an indication of variability in groundwater unrelated to practices at the site. A summary of the trend test results follows this letter. Statistically significant trends were noted for the following well/constituent pairs:

Increasing

- Boron: MGWC-1, MGWC-7, and MGWC-8
- Calcium: MGWA-6A (upgradient), MGWC-1, and MGWC-8
- Chloride: MGWC-8

- Sulfate: MGWC-7 and MGWC-8
- TDS: MGWC-8

Decreasing
- Boron: MGWA-6 (upgradient), MGWC-2, and MGWC-3
- Calcium: MGWA-10 (upgradient)
- Chloride: MGWA-5 (upgradient), MGWA-6 (upgradient), MGWA-6A (upgradient), and MGWC-2
- Sulfate: MGWA-5 (upgradient), MGWA-6 (upgradient), MGWA-10 (upgradient), and MGWC-2
- TDS: MGWC-2

Statistical Methods – Appendix IV Parameters

Appendix IV parameters are evaluated by statistically comparing the mean or median of each downgradient well/constituent pair against corresponding Groundwater Protection Standards (GWPS). The GWPS may be either regulatory (MCL or CCR rule-specified limits) or site-specific limits that are based on upgradient background groundwater quality. Site-specific background limits are determined using tolerance limits, and the comparison of downgradient means or medians to GWPS is performed using confidence intervals. Confidence intervals are provided for Appendix IV well/constituent pairs with detections and with current reported data. The methods are described below.

Statistical Analysis of Appendix IV Parameters – February 2025

For Appendix IV parameters, confidence intervals for each downgradient well/constituent pair were compared against corresponding Groundwater Protection Standards (GWPS). GWPS were developed as described below. Well/constituent pairs that contain 100% non-detects do not require analysis. Data from upgradient wells for Appendix IV parameters are reassessed for outliers during each analysis.

During previous analyses, high concentrations from May 2016 through April 2017 for arsenic at upgradient well MGWA-6 were deselected prior to calculating an interwell upper tolerance limit. These historical measurements were considerably higher than more recent measurements (as may be seen on the time series graph) as well as at neighboring upgradient wells. Deselecting these measurements results in a more conservative (i.e., lower) statistical limit from a regulatory perspective. All background data will be re-evaluated for upgradient wells during the next analysis. A summary of these background data ranges follows this letter. No additional values were flagged as outliers during this analysis and a summary of previously flagged outliers follows this report (Figure C).

Interwell Upper Tolerance Limits

Interwell upper tolerance limits were used to calculate the site-specific background limits from pooled upgradient well data through the current sample event for Appendix IV constituents (Figure F). Parametric tolerance limits are calculated, with a target of 95% confidence and 95% coverage, when data follow a normal or transformed-normal distribution, such as for combined radium 226 + 228. When data contained greater than 50% non-detects or did not follow a normal or transformed-normal distribution, non-parametric tolerance limits were constructed using the highest background measurement. The confidence and coverage levels for nonparametric tolerance limits are dependent upon the number of background samples.

Groundwater Protection Standards

The background limits were then used when determining the groundwater protection standard (GWPS) under 40 CFR §257.95(h) and Georgia EPD Rule 391-3-4-.10(6)(a). On July 30, 2018, US EPA revised the Federal CCR rule updating GWPS for cobalt, lead, lithium, and molybdenum as described above in 40 CFR §257.95(h)(2). Effective on February 22, 2022, Georgia EPD incorporated the updated GWPS into the current Georgia EPD Rules for Solid Waste Management 391-3-4-.10(6)(a). In accordance with the updated Rules, the GWPS is:

- The maximum contaminant level (MCL) established under §141.62 and §141.66 of this title
- Where an MCL has not been established for a constituent, Federal and State CCR Rules specify levels for cobalt (0.006 mg/L), lead (0.015 mg/L), lithium (0.040 mg/L), and molybdenum (0.100 mg/L)
- The respective background level for a constituent when the background level is higher than the MCL or Federal CCR Rule identified GWPS

Following Georgia EPD Rule requirements and the Federal CCR requirements, GWPS were established for statistical comparison of Appendix IV constituents for this sample event (Figure G).

Confidence Intervals

To complete the statistical comparison of downgradient well data to GWPS, confidence intervals were constructed for the Appendix IV constituents in each downgradient well with at least 8 samples and in each assessment well with at least 4 samples using all available data through February 2025.

The Sanitas software was used to calculate the confidence intervals, either parametric or nonparametric, depending on the data distribution and percentage of non-detects. When data followed a normal or transformed-normal distribution, parametric confidence intervals were used for Appendix IV parameters. Nonparametric confidence intervals, which use the largest and smallest order statistics depending on the sample size as interval limits, were constructed when data did not follow a normal or transformed-normal distribution or when there were greater than 50% non-detects. The lower confidence limit, which is constructed with 99% confidence for parametric confidence intervals, is compared to the GWPS prepared as described above. The confidence level associated with nonparametric confidence intervals is dependent upon the number of samples available.

Only when the entire confidence interval is above a GWPS is the downgradient well/constituent pair considered to exceed its respective standard. If there is an exceedance of the GWPS, a statistically significant level (SSL) exceedance is identified. Note that due to a statistically significant decreasing trend for cobalt at downgradient well MGWC-7 with the majority of more recent data reported below the GWPS, only the most recent 8 observations were used to construct a confidence interval on stable, non-trending data (USEPA Unified Guidance, 2009, Chapter 7). Trend tests using both the full and truncated records follow this report (Figure H). Summaries of the confidence intervals follow this letter (Figure I) and exceedances were identified for the following well/constituent pairs:

- Lithium: MGWC-7

Trend Test Evaluation – Appendix IV

Data at wells with confidence interval exceedances are further evaluated using the Sen's Slope/Mann Kendall trend test at the 95% confidence level to determine whether concentrations are statistically increasing, decreasing, or stable (Figure J). Although the trend tests for Assessment monitoring pairs were previously evaluated using 99% confidence, the 95% confidence level more rapidly identifies statistically significant trends. Additionally, the 95% confidence level is recommended in cases with limited sample sizes and, particularly, for new assessment wells. Upgradient wells are included in the trend analyses to identify whether similar patterns exist upgradient of the site for the same constituents. When trends are present in upgradient wells, it is an indication of variability in groundwater quality unrelated to practices at the site. A summary of the Appendix IV trend test results follows this letter and a statistically significant trend was identified for the following well/constituent pair:

Increasing

- Lithium: MGWA-11 (upgradient)

Decreasing

- Lithium: MGWA-6A (upgradient)

Thank you for the opportunity to assist you in the statistical analysis of groundwater quality for Plant McIntosh AP-1. If you have any questions or comments, please feel free to contact us.

For Groundwater Stats Consulting,



Andrew Collins
Project Manager



Kristina Rayner
Senior Statistician

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Summary Tables

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100% Non-Detects: Appendix IV Downgradient

Analysis Run 3/26/2025 3:20 PM View: Confidence Intervals
Plant McIntosh Client: Southern Company Data: McIntosh AP-1

Antimony (mg/L)
MGWC-2, MGWC-8, MGWC-19, MGWC-20

Beryllium (mg/L)
MGWC-2, MGWC-7, MGWC-12, MGWC-19, MGWC-20

Cadmium (mg/L)
MGWC-3, MGWC-12, MGWC-19

Chromium (mg/L)
MGWC-19, MGWC-20

Cobalt (mg/L)
MGWC-19

Fluoride (mg/L)
MGWC-19, MGWC-20

Lead (mg/L)
MGWC-19, MGWC-20

Mercury (mg/L)
MGWC-1, MGWC-19, MGWC-20

Molybdenum (mg/L)
MGWC-2, MGWC-3, MGWC-20

Selenium (mg/L)
MGWC-19, MGWC-20

Thallium (mg/L)
MGWC-19, MGWC-20

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Date Ranges

Date: 3/26/2025 12:49 PM

Plant McIntosh Client: Southern Company Data: McIntosh AP-1

Arsenic (mg/L)
MGWA-6 overall:3/29/2018-2/4/2025
Cobalt (mg/L)
MGWC-7 overall:3/24/2021-2/4/2025

Appendix III Interwell Prediction Limits - Significant Results

Plant McIntosh Client: Southern Company Data: McIntosh AP-1 Printed 6/4/2025, 4:37 AM

Constituent	Well	Upper Lim.	Lower Lim.	Date	Observ.	Sig.	Bg N	Bg Mean	Std. Dev.	%NDs	ND Adj.	Transform	Alpha	Method
Boron (mg/L)	MGWC-1	0.18	n/a	2/4/2025	1.6	Yes	110	n/a	n/a	51.82	n/a	n/a	0.0001641	NP Inter (NDs) 1 of 2
Boron (mg/L)	MGWC-2	0.18	n/a	2/5/2025	1.7	Yes	110	n/a	n/a	51.82	n/a	n/a	0.0001641	NP Inter (NDs) 1 of 2
Boron (mg/L)	MGWC-3	0.18	n/a	2/4/2025	0.45	Yes	110	n/a	n/a	51.82	n/a	n/a	0.0001641	NP Inter (NDs) 1 of 2
Boron (mg/L)	MGWC-7	0.18	n/a	2/4/2025	2.4	Yes	110	n/a	n/a	51.82	n/a	n/a	0.0001641	NP Inter (NDs) 1 of 2
Boron (mg/L)	MGWC-8	0.18	n/a	2/4/2025	5.9	Yes	110	n/a	n/a	51.82	n/a	n/a	0.0001641	NP Inter (NDs) 1 of 2
Calcium (mg/L)	MGWC-1	110	n/a	2/4/2025	120	Yes	111	n/a	n/a	0	n/a	n/a	0.0001612	NP Inter (normality) 1 of 2
Calcium (mg/L)	MGWC-8	110	n/a	2/4/2025	130	Yes	111	n/a	n/a	0	n/a	n/a	0.0001612	NP Inter (normality) 1 of 2
Chloride (mg/L)	MGWC-1	10	n/a	2/4/2025	20	Yes	111	n/a	n/a	0	n/a	n/a	0.0001612	NP Inter (normality) 1 of 2
Chloride (mg/L)	MGWC-2	10	n/a	2/5/2025	12	Yes	111	n/a	n/a	0	n/a	n/a	0.0001612	NP Inter (normality) 1 of 2
Chloride (mg/L)	MGWC-3	10	n/a	2/4/2025	19	Yes	111	n/a	n/a	0	n/a	n/a	0.0001612	NP Inter (normality) 1 of 2
Chloride (mg/L)	MGWC-8	10	n/a	2/4/2025	11	Yes	111	n/a	n/a	0	n/a	n/a	0.0001612	NP Inter (normality) 1 of 2
Sulfate (mg/L)	MGWC-1	15.5	n/a	2/4/2025	140	Yes	111	0.8751	1.015	12.61	None	ln(x)	0.001254	Param Inter 1 of 2
Sulfate (mg/L)	MGWC-2	15.5	n/a	2/5/2025	150	Yes	111	0.8751	1.015	12.61	None	ln(x)	0.001254	Param Inter 1 of 2
Sulfate (mg/L)	MGWC-3	15.5	n/a	2/4/2025	73	Yes	111	0.8751	1.015	12.61	None	ln(x)	0.001254	Param Inter 1 of 2
Sulfate (mg/L)	MGWC-7	15.5	n/a	2/4/2025	230	Yes	111	0.8751	1.015	12.61	None	ln(x)	0.001254	Param Inter 1 of 2
Sulfate (mg/L)	MGWC-8	15.5	n/a	2/4/2025	380	Yes	111	0.8751	1.015	12.61	None	ln(x)	0.001254	Param Inter 1 of 2
TDS (mg/L)	MGWC-1	360	n/a	2/4/2025	400	Yes	110	n/a	n/a	0	n/a	n/a	0.0001641	NP Inter (normality) 1 of 2
TDS (mg/L)	MGWC-2	360	n/a	2/5/2025	420	Yes	110	n/a	n/a	0	n/a	n/a	0.0001641	NP Inter (normality) 1 of 2
TDS (mg/L)	MGWC-8	360	n/a	2/4/2025	590	Yes	110	n/a	n/a	0	n/a	n/a	0.0001641	NP Inter (normality) 1 of 2

Appendix III Interwell Prediction Limits - All Results

Plant McIntosh Client: Southern Company Data: McIntosh AP-1 Printed 6/4/2025, 4:37 AM

Constituent	Well	Upper Lim.	Lower Lim.	Date	Observ.	Sig.	Bg N	Bg Mean	Std. Dev.	%NDs	ND Adj.	Transform	Alpha	Method
Boron (mg/L)	**MGWC-1**	**0.18**	**n/a**	**2/4/2025**	**1.6**	**Yes**	**110**	**n/a**	**n/a**	**51.82**	**n/a**	**n/a**	**0.0001641**	**NP Inter (NDs) 1 of 2**
Boron (mg/L)	**MGWC-2**	**0.18**	**n/a**	**2/5/2025**	**1.7**	**Yes**	**110**	**n/a**	**n/a**	**51.82**	**n/a**	**n/a**	**0.0001641**	**NP Inter (NDs) 1 of 2**
Boron (mg/L)	**MGWC-3**	**0.18**	**n/a**	**2/4/2025**	**0.45**	**Yes**	**110**	**n/a**	**n/a**	**51.82**	**n/a**	**n/a**	**0.0001641**	**NP Inter (NDs) 1 of 2**
Boron (mg/L)	**MGWC-7**	**0.18**	**n/a**	**2/4/2025**	**2.4**	**Yes**	**110**	**n/a**	**n/a**	**51.82**	**n/a**	**n/a**	**0.0001641**	**NP Inter (NDs) 1 of 2**
Boron (mg/L)	**MGWC-8**	**0.18**	**n/a**	**2/4/2025**	**5.9**	**Yes**	**110**	**n/a**	**n/a**	**51.82**	**n/a**	**n/a**	**0.0001641**	**NP Inter (NDs) 1 of 2**
Boron (mg/L)	MGWC-12	0.18	n/a	2/4/2025	0.03J	No	110	n/a	n/a	51.82	n/a	n/a	0.0001641	NP Inter (NDs) 1 of 2
Calcium (mg/L)	**MGWC-1**	**110**	**n/a**	**2/4/2025**	**120**	**Yes**	**111**	**n/a**	**n/a**	**0**	**n/a**	**n/a**	**0.0001612**	**NP Inter (normality) 1 of 2**
Calcium (mg/L)	MGWC-2	110	n/a	2/5/2025	100	No	111	n/a	n/a	0	n/a	n/a	0.0001612	NP Inter (normality) 1 of 2
Calcium (mg/L)	MGWC-3	110	n/a	2/4/2025	110	No	111	n/a	n/a	0	n/a	n/a	0.0001612	NP Inter (normality) 1 of 2
Calcium (mg/L)	MGWC-7	110	n/a	2/4/2025	61	No	111	n/a	n/a	0	n/a	n/a	0.0001612	NP Inter (normality) 1 of 2
Calcium (mg/L)	**MGWC-8**	**110**	**n/a**	**2/4/2025**	**130**	**Yes**	**111**	**n/a**	**n/a**	**0**	**n/a**	**n/a**	**0.0001612**	**NP Inter (normality) 1 of 2**
Calcium (mg/L)	MGWC-12	110	n/a	2/4/2025	36	No	111	n/a	n/a	0	n/a	n/a	0.0001612	NP Inter (normality) 1 of 2
Chloride (mg/L)	**MGWC-1**	**10**	**n/a**	**2/4/2025**	**20**	**Yes**	**111**	**n/a**	**n/a**	**0**	**n/a**	**n/a**	**0.0001612**	**NP Inter (normality) 1 of 2**
Chloride (mg/L)	**MGWC-2**	**10**	**n/a**	**2/5/2025**	**12**	**Yes**	**111**	**n/a**	**n/a**	**0**	**n/a**	**n/a**	**0.0001612**	**NP Inter (normality) 1 of 2**
Chloride (mg/L)	**MGWC-3**	**10**	**n/a**	**2/4/2025**	**19**	**Yes**	**111**	**n/a**	**n/a**	**0**	**n/a**	**n/a**	**0.0001612**	**NP Inter (normality) 1 of 2**
Chloride (mg/L)	MGWC-7	10	n/a	2/4/2025	10	No	111	n/a	n/a	0	n/a	n/a	0.0001612	NP Inter (normality) 1 of 2
Chloride (mg/L)	**MGWC-8**	**10**	**n/a**	**2/4/2025**	**11**	**Yes**	**111**	**n/a**	**n/a**	**0**	**n/a**	**n/a**	**0.0001612**	**NP Inter (normality) 1 of 2**
Chloride (mg/L)	MGWC-12	10	n/a	2/4/2025	5.7	No	111	n/a	n/a	0	n/a	n/a	0.0001612	NP Inter (normality) 1 of 2
Fluoride (mg/L)	MGWC-1	0.19	n/a	2/4/2025	0.1ND	No	119	n/a	n/a	34.45	n/a	n/a	0.0001379	NP Inter (normality) 1 of 2
Fluoride (mg/L)	MGWC-2	0.19	n/a	2/5/2025	0.1ND	No	119	n/a	n/a	34.45	n/a	n/a	0.0001379	NP Inter (normality) 1 of 2
Fluoride (mg/L)	MGWC-3	0.19	n/a	2/4/2025	0.1ND	No	119	n/a	n/a	34.45	n/a	n/a	0.0001379	NP Inter (normality) 1 of 2
Fluoride (mg/L)	MGWC-7	0.19	n/a	2/4/2025	0.1ND	No	119	n/a	n/a	34.45	n/a	n/a	0.0001379	NP Inter (normality) 1 of 2
Fluoride (mg/L)	MGWC-8	0.19	n/a	2/4/2025	0.1ND	No	119	n/a	n/a	34.45	n/a	n/a	0.0001379	NP Inter (normality) 1 of 2
Fluoride (mg/L)	MGWC-12	0.19	n/a	2/4/2025	0.043J	No	119	n/a	n/a	34.45	n/a	n/a	0.0001379	NP Inter (normality) 1 of 2
pH, Field (SU)	MGWC-1	8.12	4.87	2/4/2025	7.2	No	137	n/a	n/a	0	n/a	n/a	0.0002099	NP Inter (normality) 1 of 2
pH, Field (SU)	MGWC-2	8.12	4.87	2/5/2025	7.66	No	137	n/a	n/a	0	n/a	n/a	0.0002099	NP Inter (normality) 1 of 2
pH, Field (SU)	MGWC-3	8.12	4.87	2/4/2025	6.9	No	137	n/a	n/a	0	n/a	n/a	0.0002099	NP Inter (normality) 1 of 2
pH, Field (SU)	MGWC-7	8.12	4.87	2/4/2025	6.71	No	137	n/a	n/a	0	n/a	n/a	0.0002099	NP Inter (normality) 1 of 2
pH, Field (SU)	MGWC-8	8.12	4.87	2/4/2025	7.67	No	137	n/a	n/a	0	n/a	n/a	0.0002099	NP Inter (normality) 1 of 2
pH, Field (SU)	MGWC-12	8.12	4.87	2/4/2025	6.75	No	137	n/a	n/a	0	n/a	n/a	0.0002099	NP Inter (normality) 1 of 2
Sulfate (mg/L)	**MGWC-1**	**15.5**	**n/a**	**2/4/2025**	**140**	**Yes**	**111**	**0.8751**	**1.015**	**12.61**	**None**	**ln(x)**	**0.001254**	**Param Inter 1 of 2**
Sulfate (mg/L)	**MGWC-2**	**15.5**	**n/a**	**2/5/2025**	**150**	**Yes**	**111**	**0.8751**	**1.015**	**12.61**	**None**	**ln(x)**	**0.001254**	**Param Inter 1 of 2**
Sulfate (mg/L)	**MGWC-3**	**15.5**	**n/a**	**2/4/2025**	**73**	**Yes**	**111**	**0.8751**	**1.015**	**12.61**	**None**	**ln(x)**	**0.001254**	**Param Inter 1 of 2**
Sulfate (mg/L)	**MGWC-7**	**15.5**	**n/a**	**2/4/2025**	**230**	**Yes**	**111**	**0.8751**	**1.015**	**12.61**	**None**	**ln(x)**	**0.001254**	**Param Inter 1 of 2**
Sulfate (mg/L)	**MGWC-8**	**15.5**	**n/a**	**2/4/2025**	**380**	**Yes**	**111**	**0.8751**	**1.015**	**12.61**	**None**	**ln(x)**	**0.001254**	**Param Inter 1 of 2**
Sulfate (mg/L)	MGWC-12	15.5	n/a	2/4/2025	11	No	111	0.8751	1.015	12.61	None	ln(x)	0.001254	Param Inter 1 of 2
TDS (mg/L)	**MGWC-1**	**360**	**n/a**	**2/4/2025**	**400**	**Yes**	**110**	**n/a**	**n/a**	**0**	**n/a**	**n/a**	**0.0001641**	**NP Inter (normality) 1 of 2**
TDS (mg/L)	**MGWC-2**	**360**	**n/a**	**2/5/2025**	**420**	**Yes**	**110**	**n/a**	**n/a**	**0**	**n/a**	**n/a**	**0.0001641**	**NP Inter (normality) 1 of 2**
TDS (mg/L)	MGWC-3	360	n/a	2/4/2025	330	No	110	n/a	n/a	0	n/a	n/a	0.0001641	NP Inter (normality) 1 of 2
TDS (mg/L)	MGWC-7	360	n/a	2/4/2025	330	No	110	n/a	n/a	0	n/a	n/a	0.0001641	NP Inter (normality) 1 of 2
TDS (mg/L)	**MGWC-8**	**360**	**n/a**	**2/4/2025**	**590**	**Yes**	**110**	**n/a**	**n/a**	**0**	**n/a**	**n/a**	**0.0001641**	**NP Inter (normality) 1 of 2**
TDS (mg/L)	MGWC-12	360	n/a	2/4/2025	200	No	110	n/a	n/a	0	n/a	n/a	0.0001641	NP Inter (normality) 1 of 2

Appendix III Trend Tests - Significant Results

Plant McIntosh Client: Southern Company Data: McIntosh AP-1 Printed 6/4/2025, 4:41 AM

Constituent	Well	Slope	Calc.	Critical	Sig.	N	%NDs	Normality	Alpha	Method
Boron (mg/L)	MGWA-6 (bg)	-0.0165	-205	-105	Yes	24	16.67	n/a	0.01	NP
Boron (mg/L)	MGWC-1	0.08898	114	105	Yes	24	0	n/a	0.01	NP
Boron (mg/L)	MGWC-2	-0.2194	-217	-105	Yes	24	0	n/a	0.01	NP
Boron (mg/L)	MGWC-3	-0.09977	-111	-105	Yes	24	0	n/a	0.01	NP
Boron (mg/L)	MGWC-7	0.1315	218	105	Yes	24	0	n/a	0.01	NP
Boron (mg/L)	MGWC-8	0.5069	155	105	Yes	24	0	n/a	0.01	NP
Calcium (mg/L)	MGWA-6A (bg)	3.356	53	48	Yes	14	0	n/a	0.01	NP
Calcium (mg/L)	MGWA-10 (bg)	-0.3403	-159	-105	Yes	24	0	n/a	0.01	NP
Calcium (mg/L)	MGWC-1	2.571	114	105	Yes	24	0	n/a	0.01	NP
Calcium (mg/L)	MGWC-8	11.86	225	105	Yes	24	0	n/a	0.01	NP
Chloride (mg/L)	MGWA-5 (bg)	-0.127	-135	-105	Yes	24	0	n/a	0.01	NP
Chloride (mg/L)	MGWA-6 (bg)	-0.9733	-226	-105	Yes	24	0	n/a	0.01	NP
Chloride (mg/L)	MGWA-6A (bg)	-0.2055	-53	-48	Yes	14	0	n/a	0.01	NP
Chloride (mg/L)	MGWC-2	-1.096	-222	-105	Yes	24	0	n/a	0.01	NP
Chloride (mg/L)	MGWC-8	0.3742	149	105	Yes	24	0	n/a	0.01	NP
Sulfate (mg/L)	MGWA-5 (bg)	-0.4863	-183	-105	Yes	24	0	n/a	0.01	NP
Sulfate (mg/L)	MGWA-6 (bg)	-2.13	-198	-105	Yes	24	0	n/a	0.01	NP
Sulfate (mg/L)	MGWA-10 (bg)	-0.1069	-147	-105	Yes	24	33.33	n/a	0.01	NP
Sulfate (mg/L)	MGWC-2	-18.82	-237	-105	Yes	24	0	n/a	0.01	NP
Sulfate (mg/L)	MGWC-7	5.385	162	111	Yes	25	0	n/a	0.01	NP
Sulfate (mg/L)	MGWC-8	24.78	115	105	Yes	24	0	n/a	0.01	NP
TDS (mg/L)	MGWC-2	-27.63	-209	-105	Yes	24	0	n/a	0.01	NP
TDS (mg/L)	MGWC-8	46.42	129	105	Yes	24	0	n/a	0.01	NP

Appendix III Trend Tests - All Results

Plant McIntosh Client: Southern Company Data: McIntosh AP-1 Printed 6/4/2025, 4:41 AM

Constituent	Well	Slope	Calc.	Critical	Sig.	N	%NDs	Normality	Alpha	Method
Boron (mg/L)	MGWA-5 (bg)	0	-6	-105	No	24	70.83	n/a	0.01	NP
Boron (mg/L)	**MGWA-6 (bg)**	**-0.0165**	**-205**	**-105**	**Yes**	**24**	**16.67**	**n/a**	**0.01**	**NP**
Boron (mg/L)	MGWA-6A (bg)	-0.0006959	-29	-48	No	14	50	n/a	0.01	NP
Boron (mg/L)	MGWA-10 (bg)	0	67	105	No	24	70.83	n/a	0.01	NP
Boron (mg/L)	MGWA-11 (bg)	0	-24	-105	No	24	50	n/a	0.01	NP
Boron (mg/L)	**MGWC-1**	**0.08898**	**114**	**105**	**Yes**	**24**	**0**	**n/a**	**0.01**	**NP**
Boron (mg/L)	**MGWC-2**	**-0.2194**	**-217**	**-105**	**Yes**	**24**	**0**	**n/a**	**0.01**	**NP**
Boron (mg/L)	**MGWC-3**	**-0.09977**	**-111**	**-105**	**Yes**	**24**	**0**	**n/a**	**0.01**	**NP**
Boron (mg/L)	**MGWC-7**	**0.1315**	**218**	**105**	**Yes**	**24**	**0**	**n/a**	**0.01**	**NP**
Boron (mg/L)	**MGWC-8**	**0.5069**	**155**	**105**	**Yes**	**24**	**0**	**n/a**	**0.01**	**NP**
Calcium (mg/L)	MGWA-5 (bg)	0	-34	-105	No	24	0	n/a	0.01	NP
Calcium (mg/L)	MGWA-6 (bg)	0	75	105	No	24	0	n/a	0.01	NP
Calcium (mg/L)	**MGWA-6A (bg)**	**3.356**	**53**	**48**	**Yes**	**14**	**0**	**n/a**	**0.01**	**NP**
Calcium (mg/L)	**MGWA-10 (bg)**	**-0.3403**	**-159**	**-105**	**Yes**	**24**	**0**	**n/a**	**0.01**	**NP**
Calcium (mg/L)	MGWA-11 (bg)	0.5342	67	111	No	25	0	n/a	0.01	NP
Calcium (mg/L)	**MGWC-1**	**2.571**	**114**	**105**	**Yes**	**24**	**0**	**n/a**	**0.01**	**NP**
Calcium (mg/L)	**MGWC-8**	**11.86**	**225**	**105**	**Yes**	**24**	**0**	**n/a**	**0.01**	**NP**
Chloride (mg/L)	**MGWA-5 (bg)**	**-0.127**	**-135**	**-105**	**Yes**	**24**	**0**	**n/a**	**0.01**	**NP**
Chloride (mg/L)	**MGWA-6 (bg)**	**-0.9733**	**-226**	**-105**	**Yes**	**24**	**0**	**n/a**	**0.01**	**NP**
Chloride (mg/L)	**MGWA-6A (bg)**	**-0.2055**	**-53**	**-48**	**Yes**	**14**	**0**	**n/a**	**0.01**	**NP**
Chloride (mg/L)	MGWA-10 (bg)	0.04199	59	105	No	24	0	n/a	0.01	NP
Chloride (mg/L)	MGWA-11 (bg)	-0.03284	-37	-111	No	25	0	n/a	0.01	NP
Chloride (mg/L)	MGWC-1	0	-70	-105	No	24	0	n/a	0.01	NP
Chloride (mg/L)	**MGWC-2**	**-1.096**	**-222**	**-105**	**Yes**	**24**	**0**	**n/a**	**0.01**	**NP**
Chloride (mg/L)	MGWC-3	0	1	105	No	24	0	n/a	0.01	NP
Chloride (mg/L)	**MGWC-8**	**0.3742**	**149**	**105**	**Yes**	**24**	**0**	**n/a**	**0.01**	**NP**
Sulfate (mg/L)	**MGWA-5 (bg)**	**-0.4863**	**-183**	**-105**	**Yes**	**24**	**0**	**n/a**	**0.01**	**NP**
Sulfate (mg/L)	**MGWA-6 (bg)**	**-2.13**	**-198**	**-105**	**Yes**	**24**	**0**	**n/a**	**0.01**	**NP**
Sulfate (mg/L)	MGWA-6A (bg)	0.3028	26	48	No	14	0	n/a	0.01	NP
Sulfate (mg/L)	**MGWA-10 (bg)**	**-0.1069**	**-147**	**-105**	**Yes**	**24**	**33.33**	**n/a**	**0.01**	**NP**
Sulfate (mg/L)	MGWA-11 (bg)	0.05133	59	111	No	25	24	n/a	0.01	NP
Sulfate (mg/L)	MGWC-1	1.363	63	105	No	24	0	n/a	0.01	NP
Sulfate (mg/L)	**MGWC-2**	**-18.82**	**-237**	**-105**	**Yes**	**24**	**0**	**n/a**	**0.01**	**NP**
Sulfate (mg/L)	MGWC-3	4.522	78	105	No	24	0	n/a	0.01	NP
Sulfate (mg/L)	**MGWC-7**	**5.385**	**162**	**111**	**Yes**	**25**	**0**	**n/a**	**0.01**	**NP**
Sulfate (mg/L)	**MGWC-8**	**24.78**	**115**	**105**	**Yes**	**24**	**0**	**n/a**	**0.01**	**NP**
TDS (mg/L)	MGWA-5 (bg)	0	8	105	No	24	0	n/a	0.01	NP
TDS (mg/L)	MGWA-6 (bg)	-1.975	-54	-105	No	24	0	n/a	0.01	NP
TDS (mg/L)	MGWA-6A (bg)	0	-3	-48	No	14	0	n/a	0.01	NP
TDS (mg/L)	MGWA-10 (bg)	-1.366	-41	-105	No	24	0	n/a	0.01	NP
TDS (mg/L)	MGWA-11 (bg)	4.672	77	105	No	24	0	n/a	0.01	NP
TDS (mg/L)	MGWC-1	7.05	67	105	No	24	0	n/a	0.01	NP
TDS (mg/L)	**MGWC-2**	**-27.63**	**-209**	**-105**	**Yes**	**24**	**0**	**n/a**	**0.01**	**NP**
TDS (mg/L)	**MGWC-8**	**46.42**	**129**	**105**	**Yes**	**24**	**0**	**n/a**	**0.01**	**NP**

Upper Tolerance Limits Summary Table

Plant McIntosh Client: Southern Company Data: McIntosh AP-1 Printed 3/26/2025, 3:10 PM

Constituent	Upper Lim.	Bg N	Bg Mean	Std. Dev.	%NDs	ND Adj.	Transform	Alpha	Method
Antimony (mg/L)	0.002	106	n/a	n/a	93.4	n/a	n/a	0.004352	NP Inter(NDs)
Arsenic (mg/L)	0.014	116	n/a	n/a	33.62	n/a	n/a	0.002606	NP Inter(normality)
Barium (mg/L)	0.15	124	n/a	n/a	0	n/a	n/a	0.001729	NP Inter(normality)
Beryllium (mg/L)	0.0025	114	n/a	n/a	95.61	n/a	n/a	0.002887	NP Inter(NDs)
Cadmium (mg/L)	0.0025	124	n/a	n/a	99.19	n/a	n/a	0.001729	NP Inter(NDs)
Chromium (mg/L)	0.0066	114	n/a	n/a	72.81	n/a	n/a	0.002887	NP Inter(NDs)
Cobalt (mg/L)	0.0025	127	n/a	n/a	72.44	n/a	n/a	0.001482	NP Inter(NDs)
Combined Radium 226 + 228 (pCi/L)	1.245	125	0.6146	0.3336	0	None	No	0.05	Inter
Fluoride (mg/L)	0.19	119	n/a	n/a	34.45	n/a	n/a	0.002234	NP Inter(normality)
Lead (mg/L)	0.001	106	n/a	n/a	93.4	n/a	n/a	0.004352	NP Inter(NDs)
Lithium (mg/L)	0.037	128	n/a	n/a	27.34	n/a	n/a	0.001408	NP Inter(normality)
Mercury (mg/L)	0.0002	114	n/a	n/a	97.37	n/a	n/a	0.002887	NP Inter(NDs)
Molybdenum (mg/L)	0.015	114	n/a	n/a	64.04	n/a	n/a	0.002887	NP Inter(NDs)
Selenium (mg/L)	0.005	94	n/a	n/a	93.62	n/a	n/a	0.008054	NP Inter(NDs)
Thallium (mg/L)	0.001	114	n/a	n/a	86.84	n/a	n/a	0.002887	NP Inter(NDs)

Cobalt MGWC-7 Trend Test - All Results

Plant McIntosh Client: Southern Company Data: McIntosh AP-1 Printed 8/12/2025, 3:59 PM

Constituent	Well	Slope	Calc.	Critical	Sig.	N	%NDs	Normality	Alpha	Method
Cobalt (mg/L)	**MGWC-7**	**-0.0008603**	**-189**	**-101**	**Yes**	**28**	**0**	**n/a**	**0.05**	**NP**

Cobalt MGWC-7 Trend Test - Truncated Record - All Results

Plant McIntosh Client: Southern Company Data: McIntosh AP-1 Printed 3/26/2025, 3:44 PM

Constituent	Well	Slope	Calc.	Critical	Sig.	N	%NDs	Normality	Alpha	Method
Cobalt (mg/L)	**MGWC-7**	**-0.0008915**	**-21**	**-20**	**Yes**	**9**	**0**	**n/a**	**0.05**	**NP**

PLANT MCINTOSH AP 1 GWPS				
Constituent Name	**MCL**	**CCR-Rule Specified**	**Background Limit**	**GWPS**
Antimony, Total (mg/L)	0.006		0.002	0.006
Arsenic, Total (mg/L)	0.01		0.014	0.014
Barium, Total (mg/L)	2		0.15	2
Beryllium, Total (mg/L)	0.004		0.0025	0.004
Cadmium, Total (mg/L)	0.005		0.0025	0.005
Chromium, Total (mg/L)	0.1		0.0066	0.1
Cobalt, Total (mg/L)	n/a	0.006	0.0025	0.006
Combined Radium, Total (pCi/L)	5		1.25	5
Fluoride, Total (mg/L)	4		0.19	4
Lead, Total (mg/L)	n/a	0.015	0.001	0.015
Lithium, Total (mg/L)	n/a	0.04	0.037	0.04
Mercury, Total (mg/L)	0.002		0.0002	0.002
Molybdenum, Total (mg/L)	n/a	0.1	0.015	0.1
Selenium, Total (mg/L)	0.05		0.005	0.05
Thallium, Total (mg/L)	0.002		0.001	0.002

*Grey cell indicates background is higher than MCL or CCR-Rule

**GWPS = Groundwater Protection Standard*

**MCL = Maximum Contaminant Level*

**CCR = Coal Combustion Residuals*

Appendix IV Confidence Intervals - Significant Results

Plant McIntosh Client: Southern Company Data: McIntosh AP-1 Printed 3/26/2025, 3:34 PM

Constituent	Well	Upper Lim.	Lower Lim.	Compliance	Sig.	N	Mean	Std. Dev.	%NDs	ND Adj.	Transform	Alpha	Method
Lithium (mg/L)	**MGWC-7**	**0.1353**	**0.118**	**0.04**	**Yes**	**28**	**0.1255**	**0.01963**	**0**	**None**	**x^2**	**0.01**	**Param.**

Appendix IV Confidence Intervals - All Results

Plant McIntosh Client: Southern Company Data: McIntosh AP-1 Printed 3/26/2025, 3:34 PM

Constituent	Well	Upper Lim.	Lower Lim.	Compliance	Sig.	N	Mean	Std. Dev.	%NDs	ND Adj.	Transform	Alpha	Method
Antimony (mg/L)	MGWC-1	0.002	0.00038	0.006	No	23	0.00193	0.0003378	95.65	None	No	0.01	NP (NDs)
Antimony (mg/L)	MGWC-3	0.002	0.00044	0.006	No	23	0.001858	0.0004701	91.3	None	No	0.01	NP (NDs)
Antimony (mg/L)	MGWC-7	0.002	0.00197	0.006	No	23	0.001934	0.0003105	91.3	None	No	0.01	NP (NDs)
Antimony (mg/L)	MGWC-12	0.002	0.0015	0.006	No	23	0.001909	0.000345	91.3	None	No	0.01	NP (NDs)
Arsenic (mg/L)	MGWC-1	0.002673	0.001902	0.014	No	27	0.002287	0.0008074	0	None	No	0.01	Param.
Arsenic (mg/L)	MGWC-2	0.001	0.00068	0.014	No	27	0.0009293	0.0001818	85.19	None	No	0.01	NP (NDs)
Arsenic (mg/L)	MGWC-3	0.001823	0.001483	0.014	No	27	0.001653	0.0003567	3.704	None	No	0.01	Param.
Arsenic (mg/L)	MGWC-7	0.001	0.00055	0.014	No	27	0.0008596	0.0002696	40.74	None	No	0.01	NP (normality)
Arsenic (mg/L)	MGWC-8	0.001	0.00099	0.014	No	27	0.0009919	0.0003087	59.26	None	No	0.01	NP (NDs)
Arsenic (mg/L)	MGWC-12	0.0009941	0.0006742	0.014	No	27	0.001014	0.0003315	33.33	Kaplan-Meier	sqrt(x)	0.01	Param.
Barium (mg/L)	MGWC-1	0.12	0.097	2	No	27	0.109	0.01617	0	None	No	0.01	NP (normality)
Barium (mg/L)	MGWC-2	0.05294	0.04776	2	No	27	0.05035	0.005431	0	None	No	0.01	Param.
Barium (mg/L)	MGWC-3	0.1569	0.1441	2	No	27	0.1505	0.01347	0	None	No	0.01	Param.
Barium (mg/L)	MGWC-7	0.01634	0.0114	2	No	27	0.01439	0.006291	0	None	x^(1/3)	0.01	Param.
Barium (mg/L)	MGWC-8	0.043	0.034	2	No	27	0.04039	0.01082	0	None	No	0.01	NP (normality)
Barium (mg/L)	MGWC-12	0.06247	0.05103	2	No	27	0.05722	0.01257	0	None	sqrt(x)	0.01	Param.
Beryllium (mg/L)	MGWC-1	0.0025	0.00018	0.004	No	25	0.002407	0.000464	96	None	No	0.01	NP (NDs)
Beryllium (mg/L)	MGWC-3	0.0025	0.00031	0.004	No	25	0.002412	0.000438	96	None	No	0.01	NP (NDs)
Beryllium (mg/L)	MGWC-8	0.001176	0.0006293	0.004	No	25	0.001368	0.000824	24	Kaplan-Meier	No	0.01	Param.
Cadmium (mg/L)	MGWC-1	0.0025	0.0005	0.005	No	27	0.00199	0.0009738	77.78	None	No	0.01	NP (NDs)
Cadmium (mg/L)	MGWC-2	0.002463	0.000997	0.005	No	27	0.001994	0.001842	0	None	sqrt(x)	0.01	Param.
Cadmium (mg/L)	MGWC-7	0.0025	0.00041	0.005	No	27	0.002169	0.0008093	85.19	None	No	0.01	NP (NDs)
Cadmium (mg/L)	MGWC-8	0.002201	0.0008081	0.005	No	27	0.002142	0.00204	22.22	Kaplan-Meier	sqrt(x)	0.01	Param.
Chromium (mg/L)	MGWC-1	0.0023	0.0015	0.1	No	25	0.002032	0.0003671	84	None	No	0.01	NP (NDs)
Chromium (mg/L)	MGWC-2	0.0027	0.002	0.1	No	25	0.00208	0.0002901	92	None	No	0.01	NP (NDs)
Chromium (mg/L)	MGWC-3	0.003	0.002	0.1	No	25	0.00204	0.0002	96	None	No	0.01	NP (NDs)
Chromium (mg/L)	MGWC-7	0.0034	0.0015	0.1	No	25	0.002008	0.0003353	88	None	No	0.01	NP (NDs)
Chromium (mg/L)	MGWC-8	0.0031	0.0013	0.1	No	25	0.002016	0.0002656	92	None	No	0.01	NP (NDs)
Chromium (mg/L)	MGWC-12	0.0032	0.0012	0.1	No	25	0.003096	0.005405	88	None	No	0.01	NP (NDs)
Cobalt (mg/L)	MGWC-1	0.0025	0.00047	0.006	No	28	0.001756	0.001031	64.29	None	No	0.01	NP (NDs)
Cobalt (mg/L)	MGWC-2	0.002971	0.002049	0.006	No	28	0.00251	0.0009869	0	None	No	0.01	Param.
Cobalt (mg/L)	MGWC-3	0.00067	0.00051	0.006	No	28	0.0007414	0.0004484	10.71	None	No	0.01	NP (normality)
Cobalt (mg/L)	MGWC-7	0.005728	0.002339	0.006	No	9	0.004033	0.001755	0	None	No	0.01	Param.
Cobalt (mg/L)	MGWC-8	0.01299	0.005118	0.006	No	28	0.01059	0.008337	0	None	sqrt(x)	0.01	Param.
Cobalt (mg/L)	MGWC-12	0.0025	0.0015	0.006	No	28	0.002381	0.0004744	92.86	None	No	0.01	NP (NDs)
Cobalt (mg/L)	MGWC-20	0.0008567	0.0001608	0.006	No	4	0.000965	0.001033	25	Kaplan-Meier	sqrt(x)	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	MGWC-1	1.825	1.407	5	No	28	1.616	0.4471	0	None	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	MGWC-2	0.7333	0.4388	5	No	27	0.5861	0.3087	0	None	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	MGWC-3	1.745	1.413	5	No	28	1.579	0.355	0	None	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	MGWC-7	1.323	0.9888	5	No	27	1.156	0.35	0	None	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	MGWC-8	1.837	1.313	5	No	27	1.575	0.5494	0	None	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	MGWC-12	0.702	0.4235	5	No	27	0.5627	0.2919	0	None	No	0.01	Param.
Fluoride (mg/L)	MGWC-1	0.2221	0.1478	4	No	26	0.1849	0.07624	7.692	None	No	0.01	Param.
Fluoride (mg/L)	MGWC-2	1	0.076	4	No	26	0.4052	0.4422	34.62	None	No	0.01	NP (normality)
Fluoride (mg/L)	MGWC-3	0.23	0.083	4	No	26	0.2201	0.193	30.77	None	No	0.01	NP (normality)
Fluoride (mg/L)	MGWC-7	0.3389	0.2268	4	No	26	0.2828	0.1149	7.692	None	No	0.01	Param.
Fluoride (mg/L)	MGWC-8	0.15	0.087	4	No	26	0.2715	0.3635	19.23	None	No	0.01	NP (normality)
Fluoride (mg/L)	MGWC-12	0.2473	0.1937	4	No	26	0.2119	0.06791	0	None	x^2	0.01	Param.
Lead (mg/L)	MGWC-1	0.001	0.00058	0.015	No	23	0.0009817	0.00008758	95.65	None	No	0.01	NP (NDs)
Lead (mg/L)	MGWC-2	0.001	0.00027	0.015	No	23	0.0009309	0.0002299	91.3	None	No	0.01	NP (NDs)
Lead (mg/L)	MGWC-3	0.001	0.00034	0.015	No	23	0.0009352	0.0002162	91.3	None	No	0.01	NP (NDs)
Lead (mg/L)	MGWC-7	0.001	0.0003	0.015	No	23	0.0009	0.0002646	86.96	None	No	0.01	NP (NDs)
Lead (mg/L)	MGWC-8	0.001	0.00022	0.015	No	23	0.0009309	0.0002291	91.3	None	No	0.01	NP (NDs)
Lead (mg/L)	MGWC-12	0.001	0.0001	0.015	No	23	0.0009609	0.0001877	95.65	None	No	0.01	NP (NDs)

Appendix IV Confidence Intervals - All Results

Plant McIntosh Client: Southern Company Data: McIntosh AP-1 Printed 3/26/2025, 3:34 PM

Constituent	Well	Upper Lim.	Lower Lim.	Compliance	Sig.	N	Mean	Std. Dev.	%NDs	ND Adj.	Transform	Alpha	Method
Lithium (mg/L)	MGWC-1	0.01211	0.01019	0.04	No	28	0.01115	0.002055	3.571	None	No	0.01	Param.
Lithium (mg/L)	MGWC-2	0.0066	0.0051	0.04	No	28	0.006563	0.003798	3.571	None	No	0.01	NP (normality)
Lithium (mg/L)	MGWC-3	0.01353	0.01156	0.04	No	28	0.01255	0.002101	0	None	No	0.01	Param.
Lithium (mg/L)	**MGWC-7**	**0.1353**	**0.118**	**0.04**	**Yes**	**28**	**0.1255**	**0.01963**	**0**	**None**	**x^2**	**0.01**	**Param.**
Lithium (mg/L)	MGWC-8	0.03462	0.02278	0.04	No	28	0.0287	0.01267	0	None	No	0.01	Param.
Lithium (mg/L)	MGWC-12	0.02312	0.0179	0.04	No	28	0.02051	0.005584	0	None	No	0.01	Param.
Lithium (mg/L)	MGWC-20	0.01276	0.001556	0.04	No	5	0.00716	0.003344	0	None	No	0.01	Param.
Mercury (mg/L)	MGWC-2	0.0002	0.0001	0.002	No	25	0.0001911	0.0000309	92	None	No	0.01	NP (NDs)
Mercury (mg/L)	MGWC-3	0.0002	0.00007	0.002	No	25	0.0001948	0.000026	96	None	No	0.01	NP (NDs)
Mercury (mg/L)	MGWC-7	0.0002	0.00008	0.002	No	25	0.0001952	0.000024	96	None	No	0.01	NP (NDs)
Mercury (mg/L)	MGWC-8	0.00051	0.00015	0.002	No	26	0.0005118	0.0008753	30.77	None	No	0.01	NP (normality)
Mercury (mg/L)	MGWC-12	0.0002	0.000086	0.002	No	25	0.0001904	0.00003327	92	None	No	0.01	NP (NDs)
Molybdenum (mg/L)	MGWC-1	0.002	0.0011	0.1	No	25	0.01321	0.02753	16	None	No	0.01	NP (normality)
Molybdenum (mg/L)	MGWC-7	0.015	0.00351	0.1	No	25	0.01454	0.002298	96	None	No	0.01	NP (NDs)
Molybdenum (mg/L)	MGWC-8	0.015	0.0037	0.1	No	25	0.01455	0.00226	96	None	No	0.01	NP (NDs)
Molybdenum (mg/L)	MGWC-12	0.015	0.0024	0.1	No	25	0.01174	0.005923	76	None	No	0.01	NP (NDs)
Selenium (mg/L)	MGWC-1	0.005	0.0005	0.05	No	21	0.004565	0.001375	90.48	None	No	0.01	NP (NDs)
Selenium (mg/L)	MGWC-2	0.005	0.00045	0.05	No	21	0.004783	0.0009929	95.24	None	No	0.01	NP (NDs)
Selenium (mg/L)	MGWC-3	0.005	0.00044	0.05	No	21	0.004783	0.0009951	95.24	None	No	0.01	NP (NDs)
Selenium (mg/L)	MGWC-7	0.005	0.00026	0.05	No	21	0.004774	0.001034	95.24	None	No	0.01	NP (NDs)
Selenium (mg/L)	MGWC-8	0.005	0.0024	0.05	No	21	0.003989	0.001898	76.19	None	No	0.01	NP (NDs)
Selenium (mg/L)	MGWC-12	0.005	0.00027	0.05	No	21	0.004775	0.001032	95.24	None	No	0.01	NP (NDs)
Thallium (mg/L)	MGWC-1	0.001	0.00032	0.002	No	25	0.0007986	0.0003678	76	None	No	0.01	NP (NDs)
Thallium (mg/L)	MGWC-2	0.001	0.00021	0.002	No	25	0.0009684	0.000158	96	None	No	0.01	NP (NDs)
Thallium (mg/L)	MGWC-3	0.001	0.00037	0.002	No	25	0.0009412	0.0002058	92	None	No	0.01	NP (NDs)
Thallium (mg/L)	MGWC-7	0.001	0.00016	0.002	No	25	0.0009664	0.000168	96	None	No	0.01	NP (NDs)
Thallium (mg/L)	MGWC-8	0.001	0.00019	0.002	No	25	0.0005396	0.0003911	40	None	No	0.01	NP (normality)
Thallium (mg/L)	MGWC-12	0.001	0.00027	0.002	No	25	0.0009368	0.0002194	92	None	No	0.01	NP (NDs)

Appendix IV Trend Tests - Significant Results

Plant McIntosh Client: Southern Company Data: McIntosh AP-1 Printed 3/26/2025, 3:37 PM

Constituent	Well	Slope	Calc.	Critical	Sig.	N	%NDs	Normality	Alpha	Method
Lithium (mg/L)	**MGWA-6A (bg)**	**-0.0001217**	**-59**	**-45**	**Yes**	**16**	**62.5**	**n/a**	**0.05**	**NP**
Lithium (mg/L)	**MGWA-11 (bg)**	**0.001191**	**113**	**101**	**Yes**	**28**	**0**	**n/a**	**0.05**	**NP**

Appendix IV Trend Tests - All Results

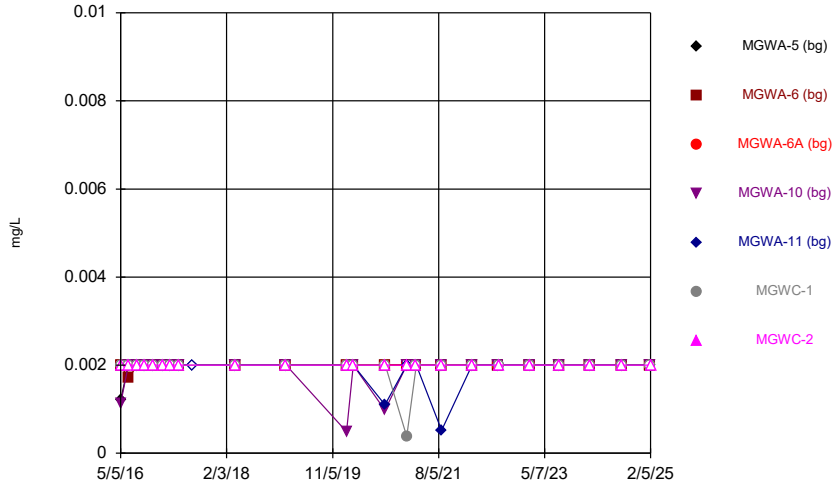
Plant McIntosh Client: Southern Company Data: McIntosh AP-1 Printed 3/26/2025, 3:37 PM

Constituent	Well	Slope	Calc.	Critical	Sig.	N	%NDs	Normality	Alpha	Method
Lithium (mg/L)	MGWA-5 (bg)	0.0001505	52	101	No	28	3.571	n/a	0.05	NP
Lithium (mg/L)	MGWA-6 (bg)	0	61	101	No	28	82.14	n/a	0.05	NP
Lithium (mg/L)	**MGWA-6A (bg)**	**-0.0001217**	**-59**	**-45**	**Yes**	**16**	**62.5**	**n/a**	**0.05**	**NP**
Lithium (mg/L)	MGWA-10 (bg)	0.00005176	30	101	No	28	3.571	n/a	0.05	NP
Lithium (mg/L)	**MGWA-11 (bg)**	**0.001191**	**113**	**101**	**Yes**	**28**	**0**	**n/a**	**0.05**	**NP**
Lithium (mg/L)	MGWC-7	0.00164	78	101	No	28	0	n/a	0.05	NP

FIGURE A.

Sanitas™ v.10.0.24 Software licensed to Groundwater Stats Consulting. UG
Hollow symbols indicate censored values.

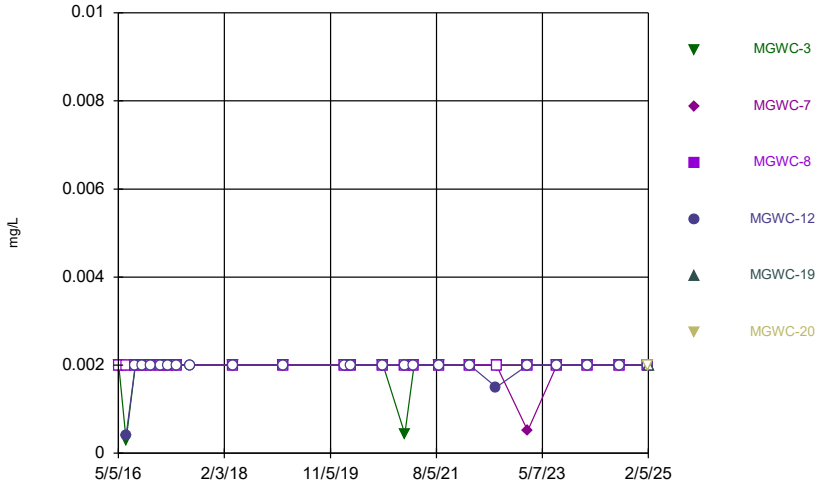
Time Series



Constituent: Antimony Analysis Run 3/26/2025 12:54 PM
Plant McIntosh Client: Southern Company Data: McIntosh AP-1

Sanitas™ v.10.0.24 Software licensed to Groundwater Stats Consulting. UG
Hollow symbols indicate censored values.

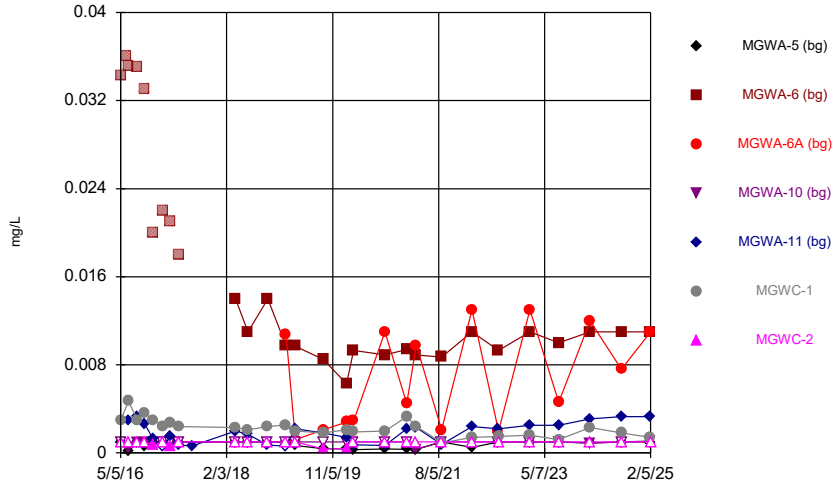
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Constituent: Antimony Analysis Run 3/26/2025 12:54 PM
Plant McIntosh Client: Southern Company Data: McIntosh AP-1

Sanitas™ v.10.0.24 Software licensed to Groundwater Stats Consulting. UG
Hollow symbols indicate censored values.

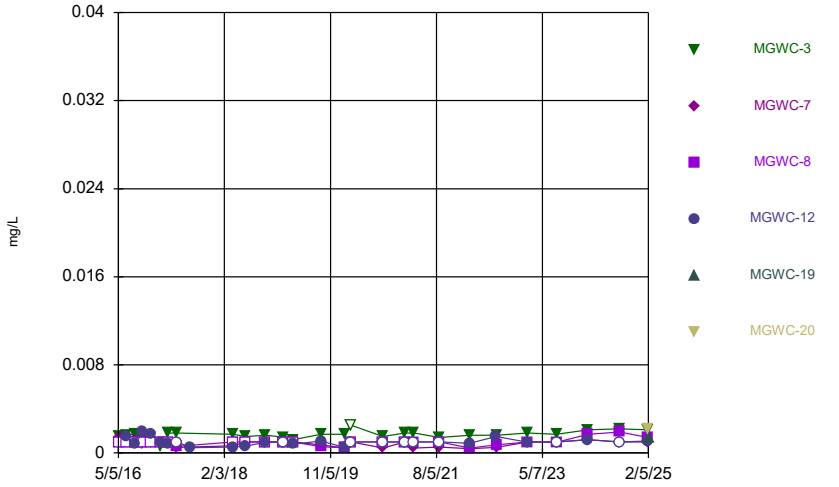
Time Series



Constituent: Arsenic Analysis Run 3/26/2025 12:54 PM
Plant McIntosh Client: Southern Company Data: McIntosh AP-1

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Hollow symbols indicate censored values.

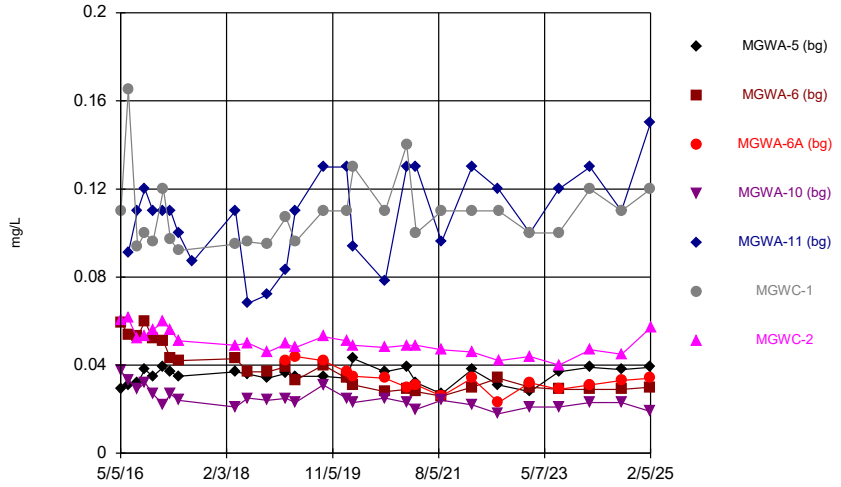
Time Series



Constituent: Arsenic Analysis Run 3/26/2025 12:54 PM
Plant McIntosh Client: Southern Company Data: McIntosh AP-1

Sanitas™ v.10.0.24 Software licensed to Groundwater Stats Consulting. UG

Time Series

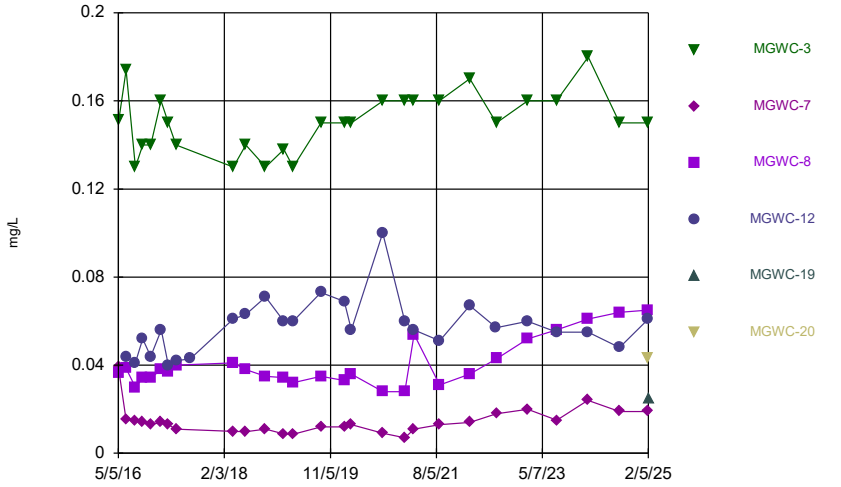


Constituent: Barium Analysis Run 3/26/2025 12:54 PM

Plant McIntosh Client: Southern Company Data: McIntosh AP-1

Sanitas™ v.10.0.24 Software licensed to Groundwater Stats Consulting. UG

Time Series

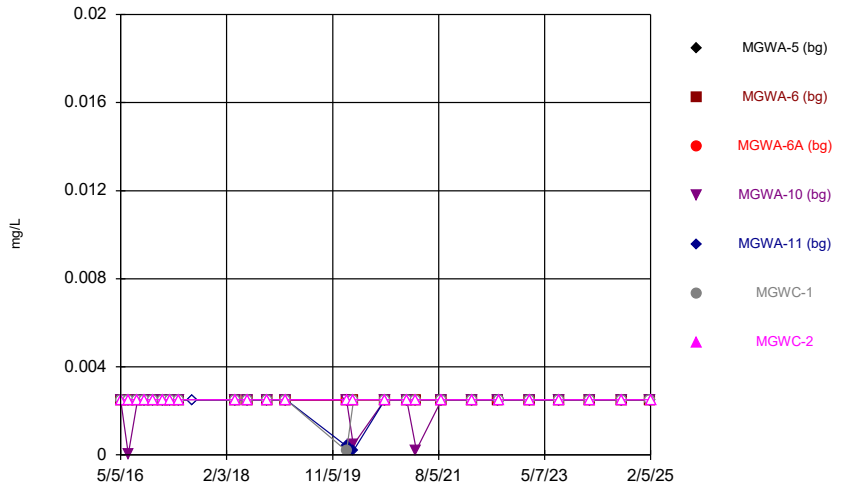


Constituent: Barium Analysis Run 3/26/2025 12:54 PM

Plant McIntosh Client: Southern Company Data: McIntosh AP-1

Sanitas™ v.10.0.24 Software licensed to Groundwater Stats Consulting. UG
Hollow symbols indicate censored values.

Time Series

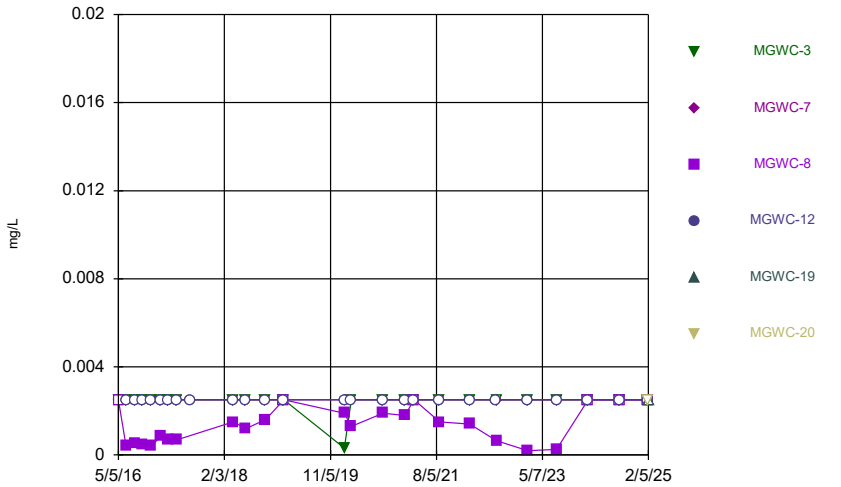


Constituent: Beryllium Analysis Run 3/26/2025 12:54 PM

Plant McIntosh Client: Southern Company Data: McIntosh AP-1

Sanitas™ v.10.0.24 Software licensed to Groundwater Stats Consulting. UG
Hollow symbols indicate censored values.

Time Series

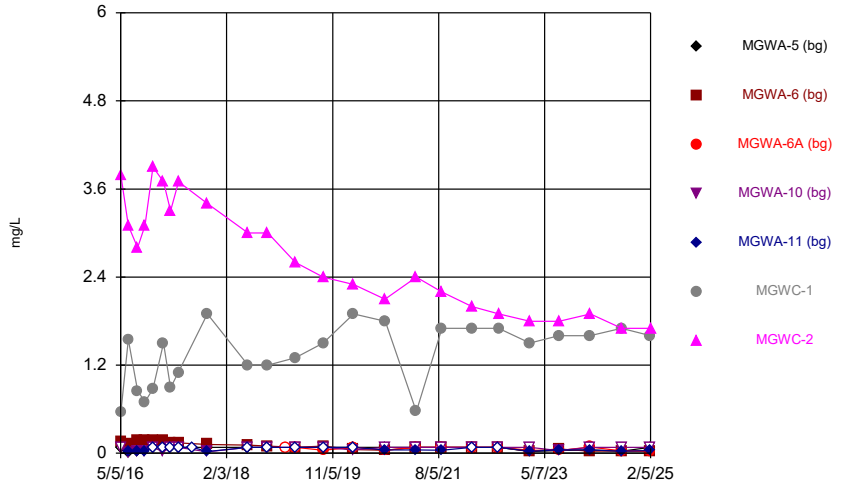


Constituent: Beryllium Analysis Run 3/26/2025 12:54 PM

Plant McIntosh Client: Southern Company Data: McIntosh AP-1

Sanitas™ v.10.0.24 Software licensed to Groundwater Stats Consulting. UG
Hollow symbols indicate censored values.

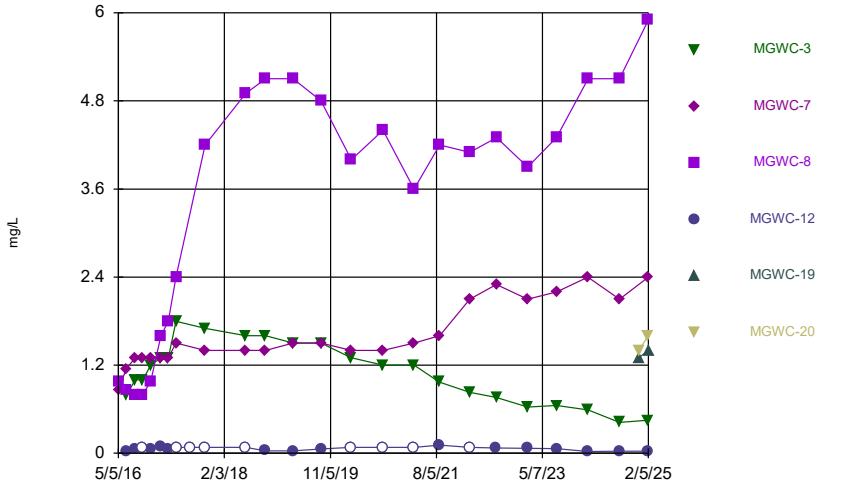
Time Series



Constituent: Boron Analysis Run 3/26/2025 12:54 PM
Plant McIntosh Client: Southern Company Data: McIntosh AP-1

Sanitas™ v.10.0.24 Software licensed to Groundwater Stats Consulting. UG
Hollow symbols indicate censored values.

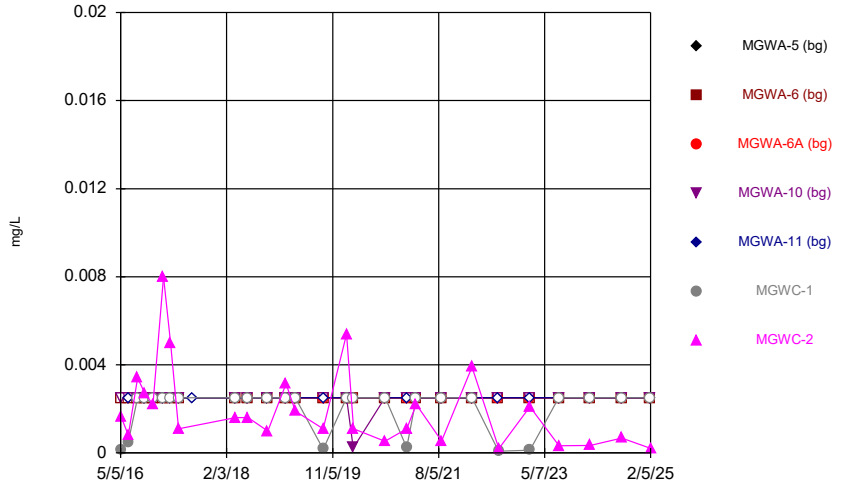
Time Series



Constituent: Boron Analysis Run 3/26/2025 12:54 PM
Plant McIntosh Client: Southern Company Data: McIntosh AP-1

Sanitas™ v.10.0.24 Software licensed to Groundwater Stats Consulting. UG
Hollow symbols indicate censored values.

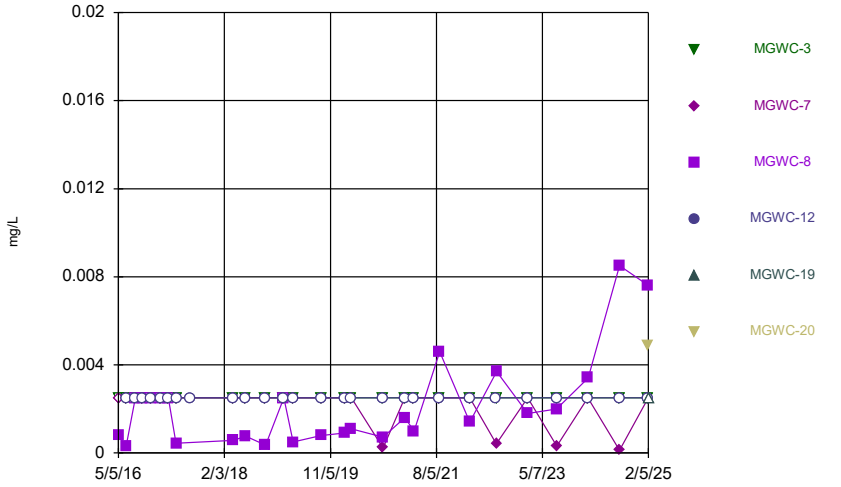
Time Series



Constituent: Cadmium Analysis Run 3/26/2025 12:54 PM
Plant McIntosh Client: Southern Company Data: McIntosh AP-1

Sanitas™ v.10.0.24 Software licensed to Groundwater Stats Consulting. UG
Hollow symbols indicate censored values.

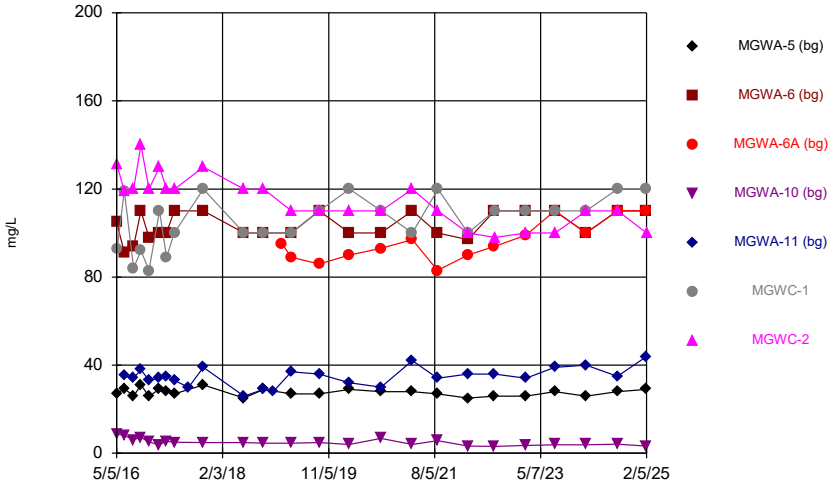
Time Series



Constituent: Cadmium Analysis Run 3/26/2025 12:54 PM
Plant McIntosh Client: Southern Company Data: McIntosh AP-1

Sanitas™ v.10.0.24 Software licensed to Groundwater Stats Consulting. UG

Time Series

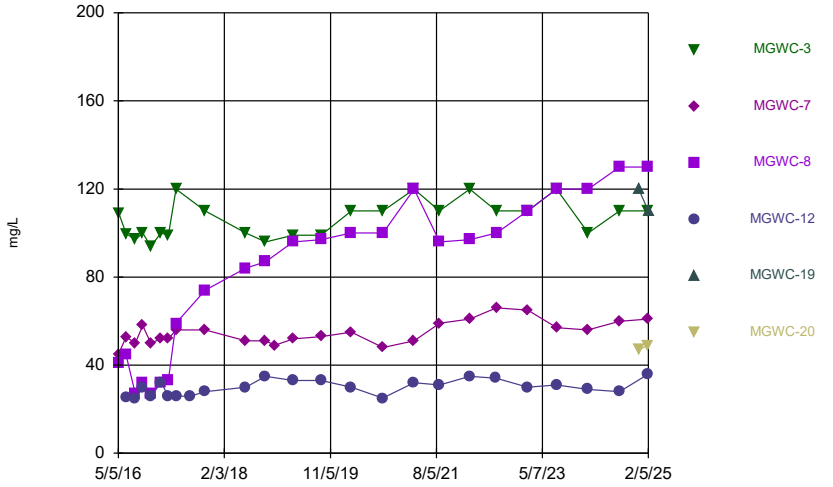


Constituent: Calcium Analysis Run 3/26/2025 12:54 PM

Plant McIntosh Client: Southern Company Data: McIntosh AP-1

Sanitas™ v.10.0.24 Software licensed to Groundwater Stats Consulting. UG

Time Series

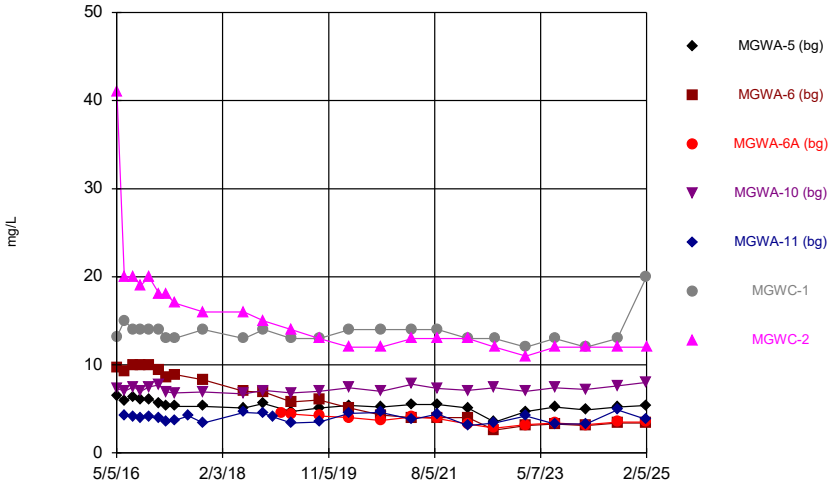


Constituent: Calcium Analysis Run 3/26/2025 12:54 PM

Plant McIntosh Client: Southern Company Data: McIntosh AP-1

Sanitas™ v.10.0.24 Software licensed to Groundwater Stats Consulting. UG

Time Series

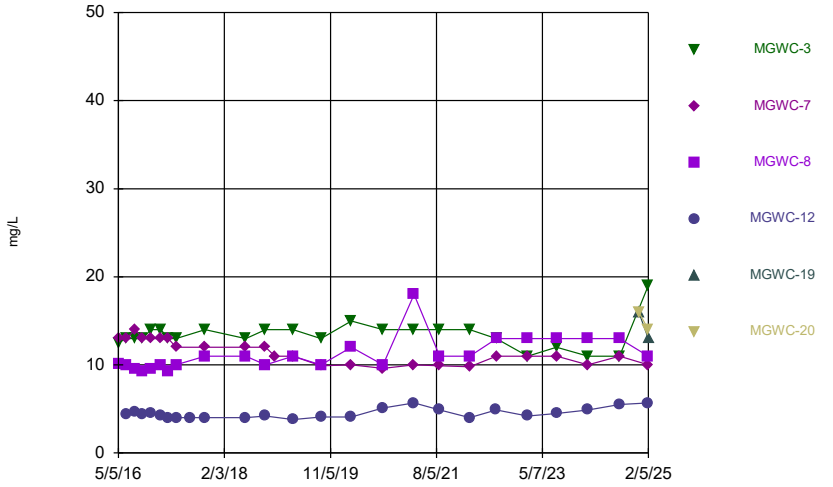


Constituent: Chloride Analysis Run 3/26/2025 12:54 PM

Plant McIntosh Client: Southern Company Data: McIntosh AP-1

Sanitas™ v.10.0.24 Software licensed to Groundwater Stats Consulting. UG

Time Series

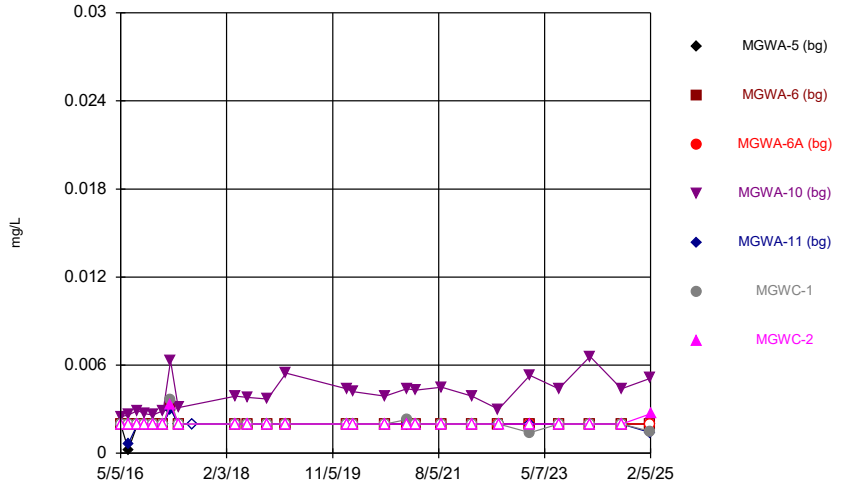


Constituent: Chloride Analysis Run 3/26/2025 12:54 PM

Plant McIntosh Client: Southern Company Data: McIntosh AP-1

Sanitas™ v.10.0.24 Software licensed to Groundwater Stats Consulting. UG
Hollow symbols indicate censored values.

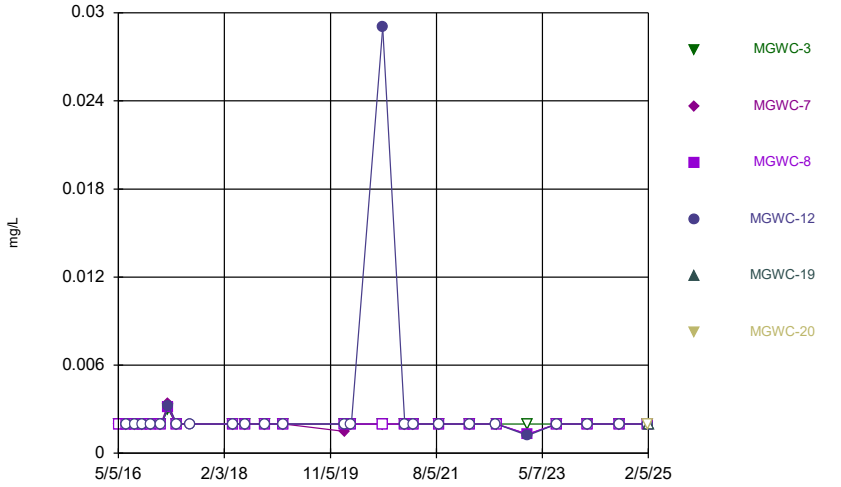
Time Series



Constituent: Chromium Analysis Run 3/26/2025 12:54 PM
Plant McIntosh Client: Southern Company Data: McIntosh AP-1

Sanitas™ v.10.0.24 Software licensed to Groundwater Stats Consulting. UG
Hollow symbols indicate censored values.

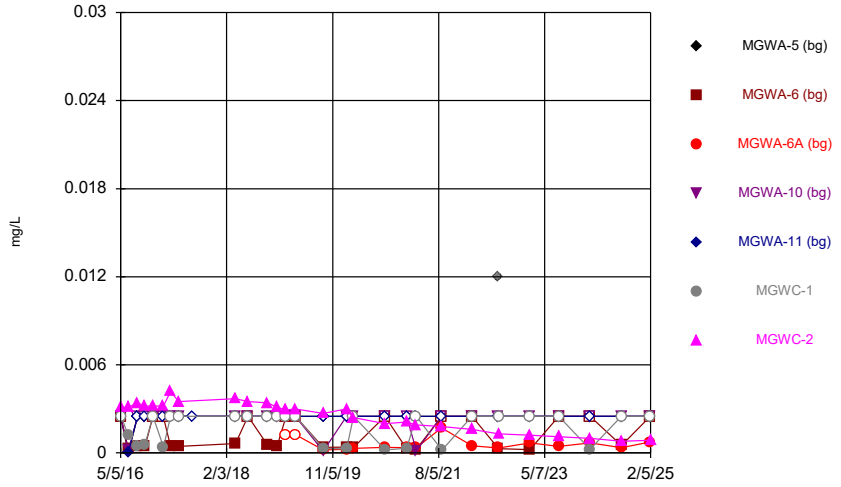
Time Series



Constituent: Chromium Analysis Run 3/26/2025 12:54 PM
Plant McIntosh Client: Southern Company Data: McIntosh AP-1

Sanitas™ v.10.0.24 Software licensed to Groundwater Stats Consulting. UG
Hollow symbols indicate censored values.

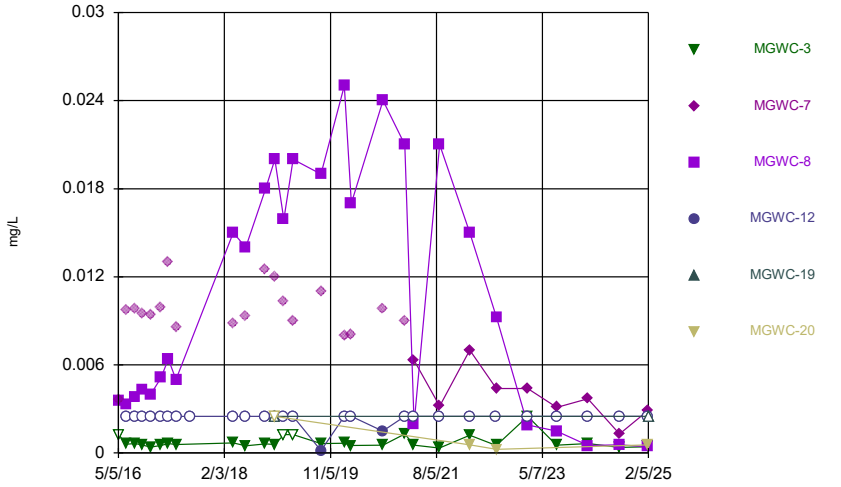
Time Series



Constituent: Cobalt Analysis Run 3/26/2025 12:54 PM
Plant McIntosh Client: Southern Company Data: McIntosh AP-1

Sanitas™ v.10.0.24 Software licensed to Groundwater Stats Consulting. UG
Hollow symbols indicate censored values.

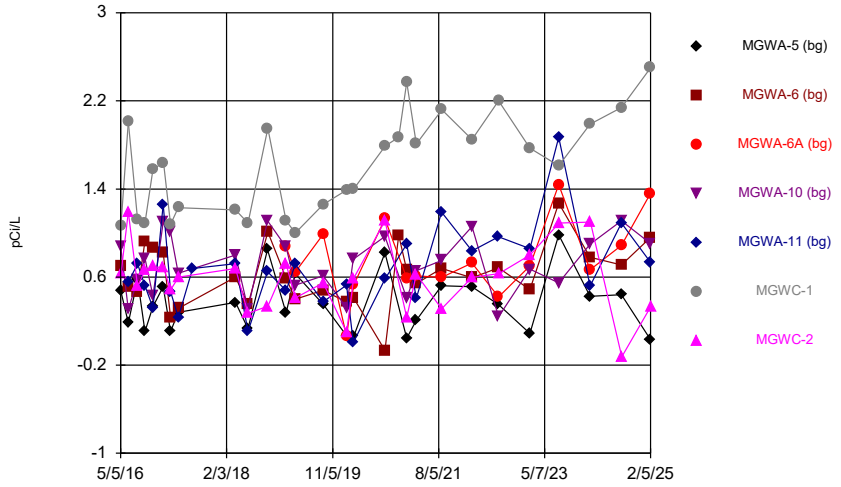
Time Series



Constituent: Cobalt Analysis Run 3/26/2025 12:54 PM
Plant McIntosh Client: Southern Company Data: McIntosh AP-1

Sanitas™ v.10.0.24 Software licensed to Groundwater Stats Consulting. UG

Time Series

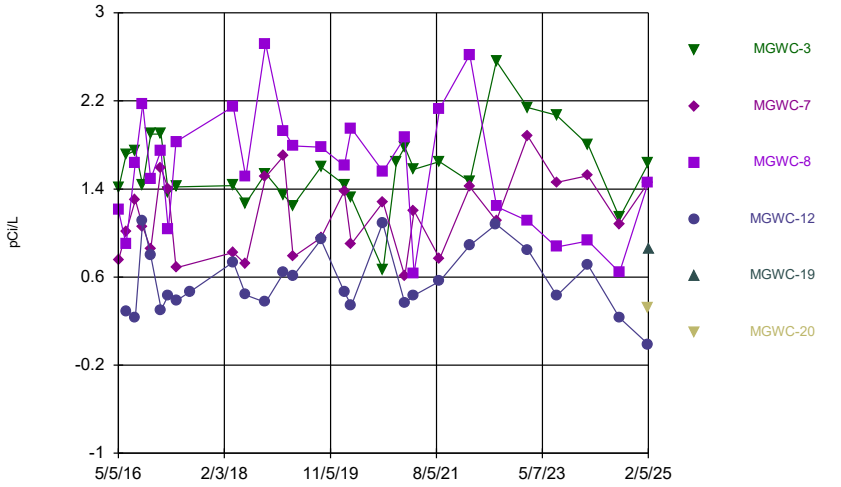


Constituent: Combined Radium 226 + 228 Analysis Run 3/26/2025 12:54 PM

Plant McIntosh Client: Southern Company Data: McIntosh AP-1

Sanitas™ v.10.0.24 Software licensed to Groundwater Stats Consulting. UG

Time Series



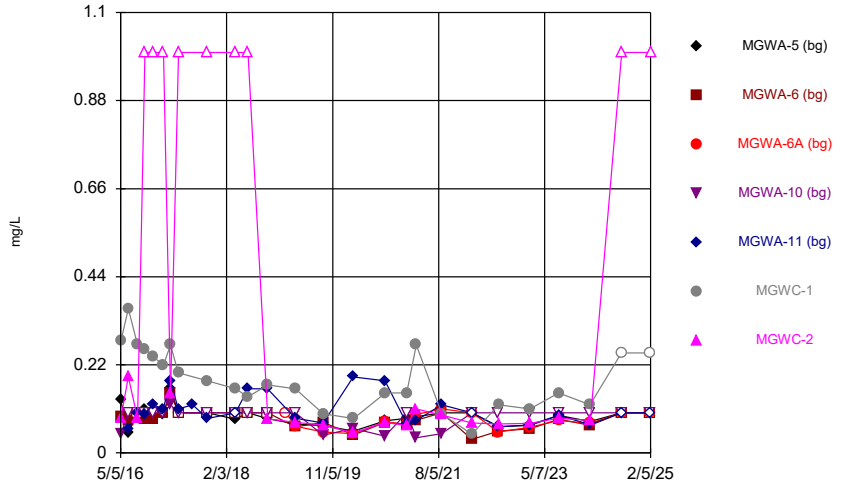
Constituent: Combined Radium 226 + 228 Analysis Run 3/26/2025 12:54 PM

Plant McIntosh Client: Southern Company Data: McIntosh AP-1

Sanitas™ v.10.0.24 Software licensed to Groundwater Stats Consulting. UG

Hollow symbols indicate censored values.

Time Series



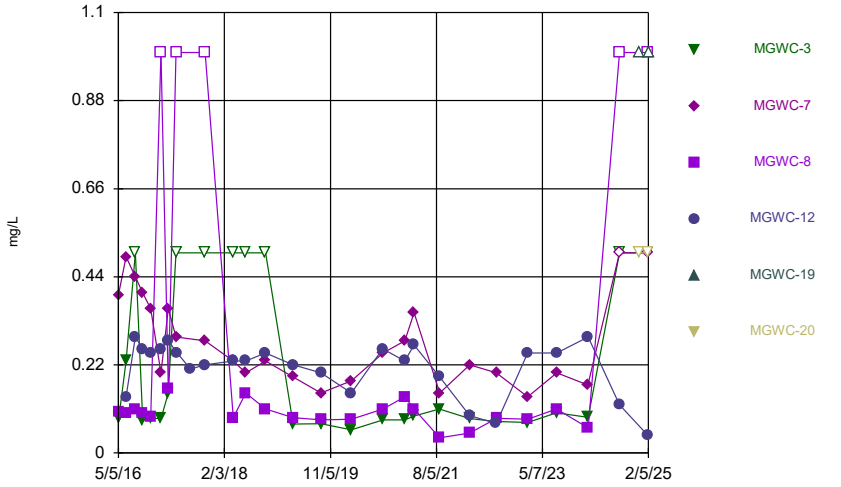
Constituent: Fluoride Analysis Run 3/26/2025 12:54 PM

Plant McIntosh Client: Southern Company Data: McIntosh AP-1

Sanitas™ v.10.0.24 Software licensed to Groundwater Stats Consulting. UG

Hollow symbols indicate censored values.

Time Series

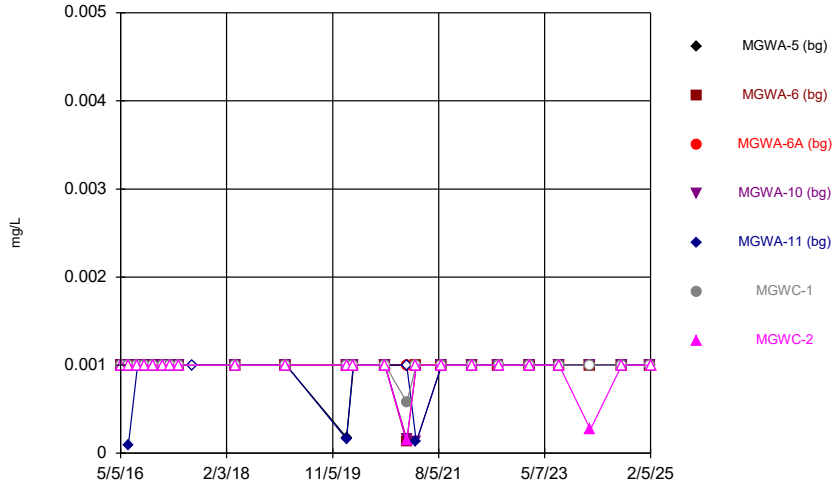


Constituent: Fluoride Analysis Run 3/26/2025 12:54 PM

Plant McIntosh Client: Southern Company Data: McIntosh AP-1

Sanitas™ v.10.0.24 Software licensed to Groundwater Stats Consulting. UG
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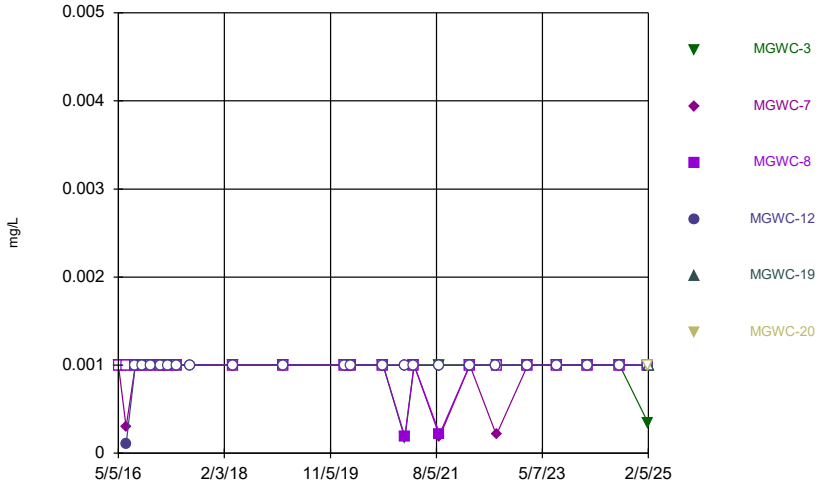
Time Series



Constituent: Lead Analysis Run 3/26/2025 12:54 PM
Plant McIntosh Client: Southern Company Data: McIntosh AP-1

Sanitas™ v.10.0.24 Software licensed to Groundwater Stats Consulting. UG
Hollow symbols indicate censored values.

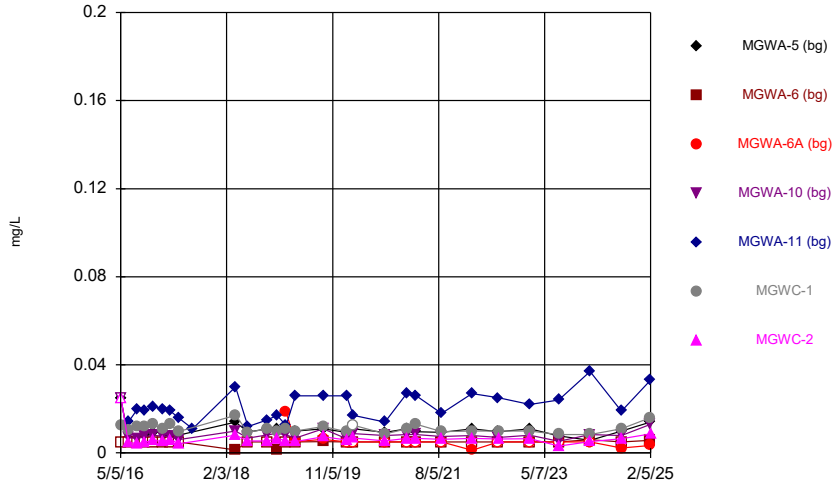
Time Series



Constituent: Lead Analysis Run 3/26/2025 12:54 PM
Plant McIntosh Client: Southern Company Data: McIntosh AP-1

Sanitas™ v.10.0.24 Software licensed to Groundwater Stats Consulting. UG
Hollow symbols indicate censored values.

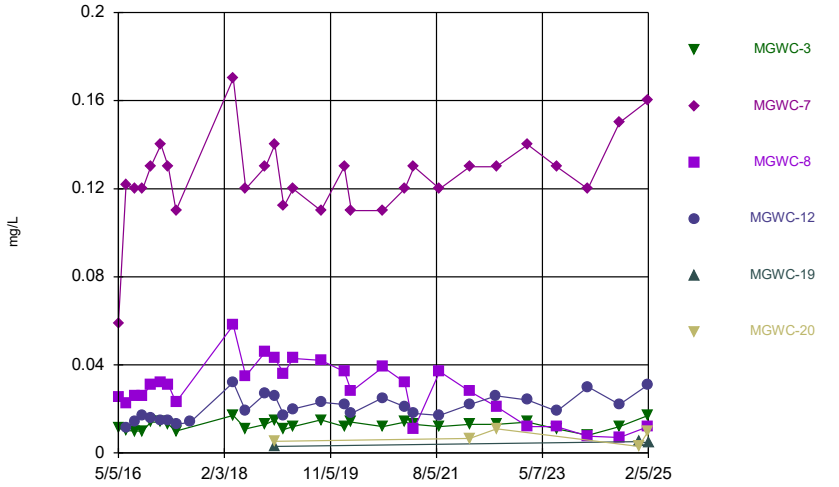
Time Series



Constituent: Lithium Analysis Run 3/26/2025 12:54 PM
Plant McIntosh Client: Southern Company Data: McIntosh AP-1

Sanitas™ v.10.0.24 Software licensed to Groundwater Stats Consulting. UG

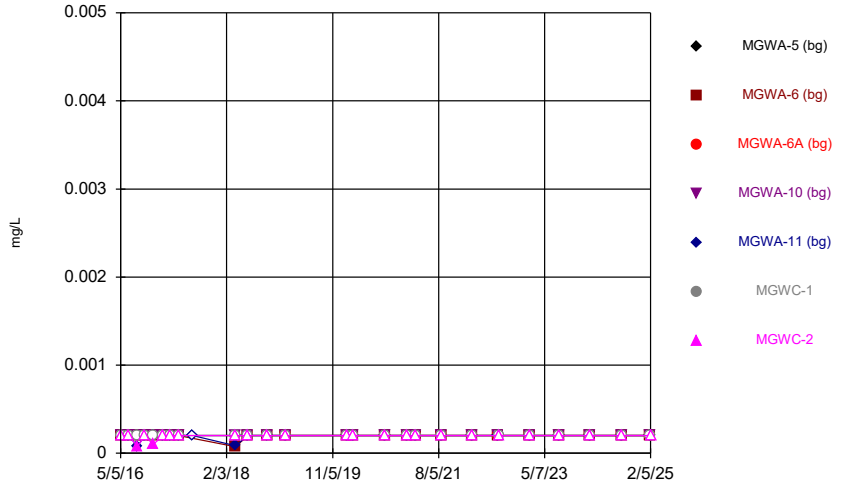
Time Series



Constituent: Lithium Analysis Run 3/26/2025 12:54 PM
Plant McIntosh Client: Southern Company Data: McIntosh AP-1

Sanitas™ v.10.0.24 Software licensed to Groundwater Stats Consulting. UG
Hollow symbols indicate censored values.

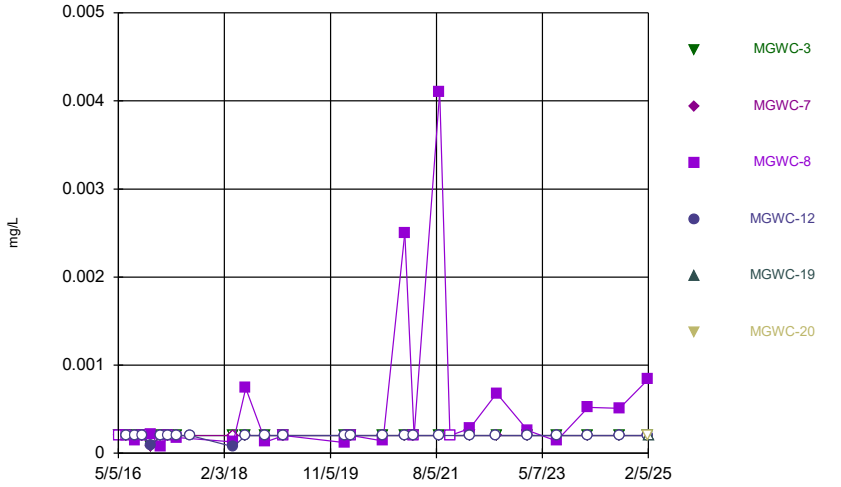
Time Series



Constituent: Mercury Analysis Run 3/26/2025 12:54 PM
Plant McIntosh Client: Southern Company Data: McIntosh AP-1

Sanitas™ v.10.0.24 Software licensed to Groundwater Stats Consulting. UG
Hollow symbols indicate censored values.

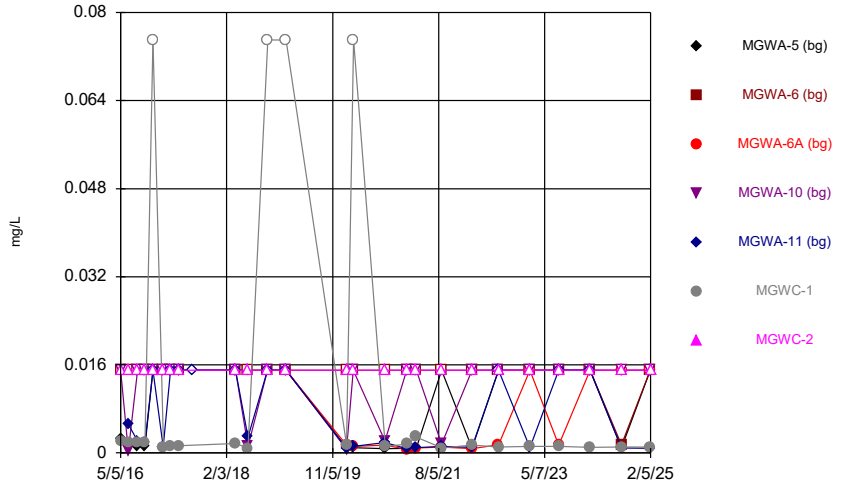
Time Series



Constituent: Mercury Analysis Run 3/26/2025 12:54 PM
Plant McIntosh Client: Southern Company Data: McIntosh AP-1

Sanitas™ v.10.0.24 Software licensed to Groundwater Stats Consulting. UG
Hollow symbols indicate censored values.

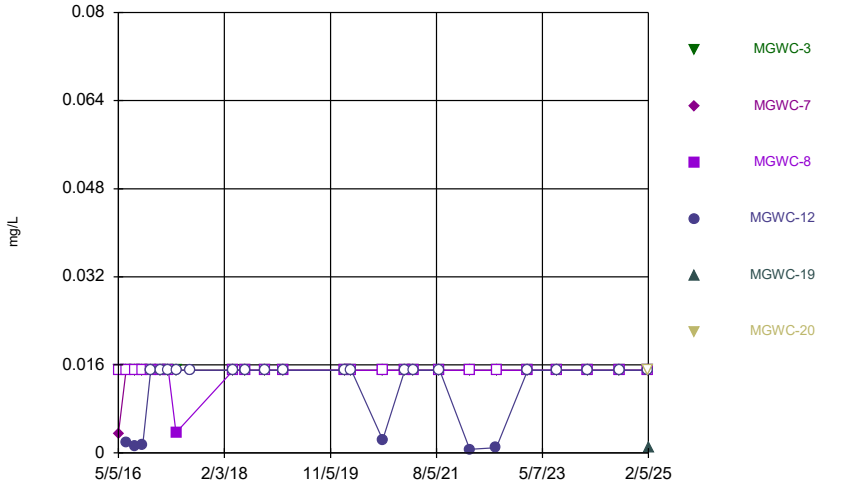
Time Series



Constituent: Molybdenum Analysis Run 3/26/2025 12:54 PM
Plant McIntosh Client: Southern Company Data: McIntosh AP-1

Sanitas™ v.10.0.24 Software licensed to Groundwater Stats Consulting. UG
Hollow symbols indicate censored values.

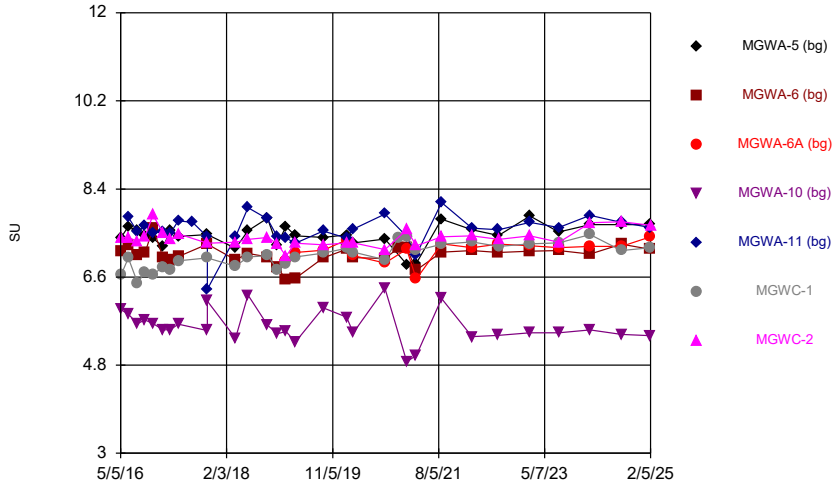
Time Series



Constituent: Molybdenum Analysis Run 3/26/2025 12:55 PM
Plant McIntosh Client: Southern Company Data: McIntosh AP-1

Sanitas™ v.10.0.24 Software licensed to Groundwater Stats Consulting. UG

Time Series

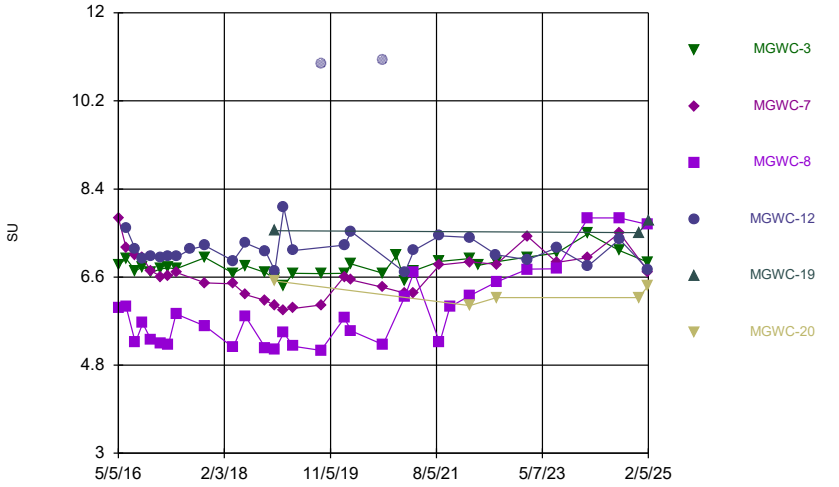


Constituent: pH, Field Analysis Run 3/26/2025 12:55 PM

Plant McIntosh Client: Southern Company Data: McIntosh AP-1

Sanitas™ v.10.0.24 Software licensed to Groundwater Stats Consulting. UG

Time Series



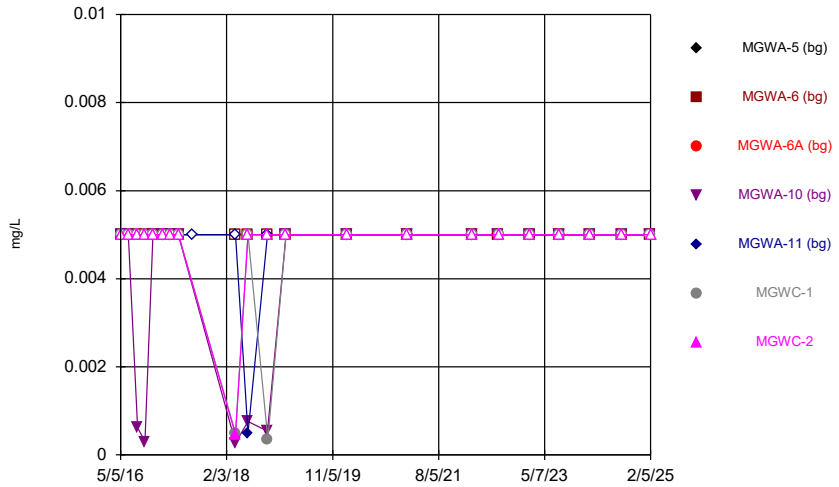
Constituent: pH, Field Analysis Run 3/26/2025 12:55 PM

Plant McIntosh Client: Southern Company Data: McIntosh AP-1

Sanitas™ v.10.0.24 Software licensed to Groundwater Stats Consulting. UG

Hollow symbols indicate censored values.

Time Series



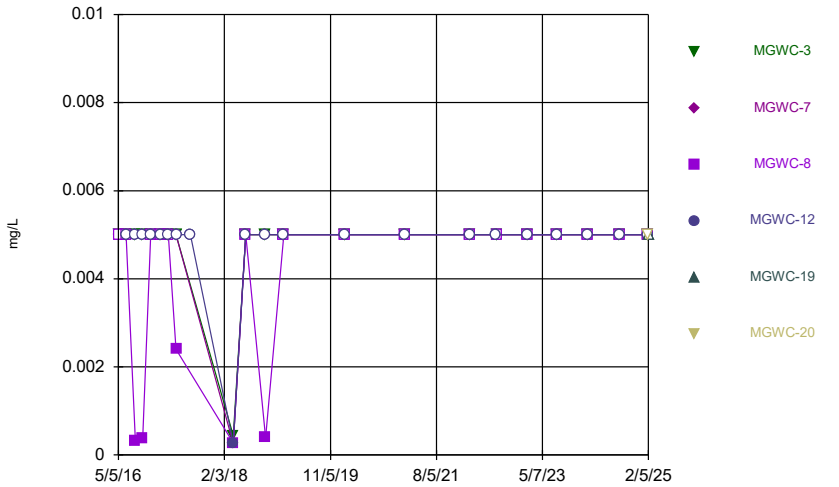
Constituent: Selenium Analysis Run 3/26/2025 12:55 PM

Plant McIntosh Client: Southern Company Data: McIntosh AP-1

Sanitas™ v.10.0.24 Software licensed to Groundwater Stats Consulting. UG

Hollow symbols indicate censored values.

Time Series

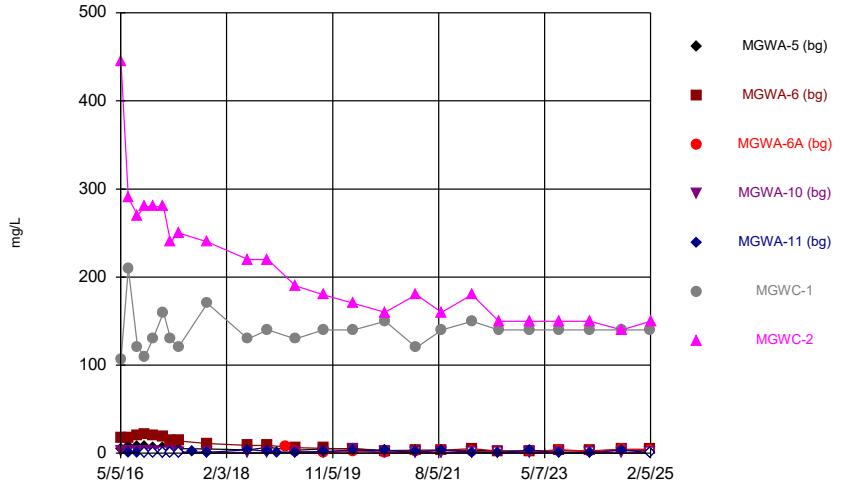


Constituent: Selenium Analysis Run 3/26/2025 12:55 PM

Plant McIntosh Client: Southern Company Data: McIntosh AP-1

Sanitas™ v.10.0.24 Software licensed to Groundwater Stats Consulting. UG
Hollow symbols indicate censored values.

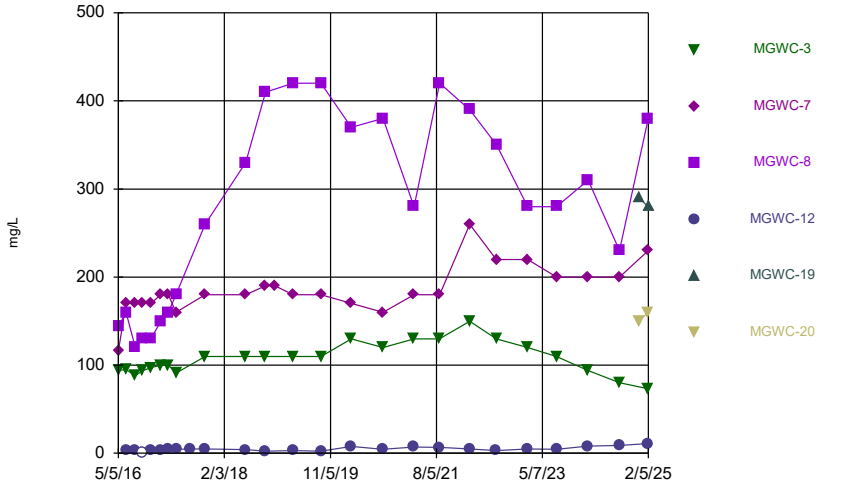
Time Series



Constituent: Sulfate Analysis Run 3/26/2025 12:55 PM
Plant McIntosh Client: Southern Company Data: McIntosh AP-1

Sanitas™ v.10.0.24 Software licensed to Groundwater Stats Consulting. UG
Hollow symbols indicate censored values.

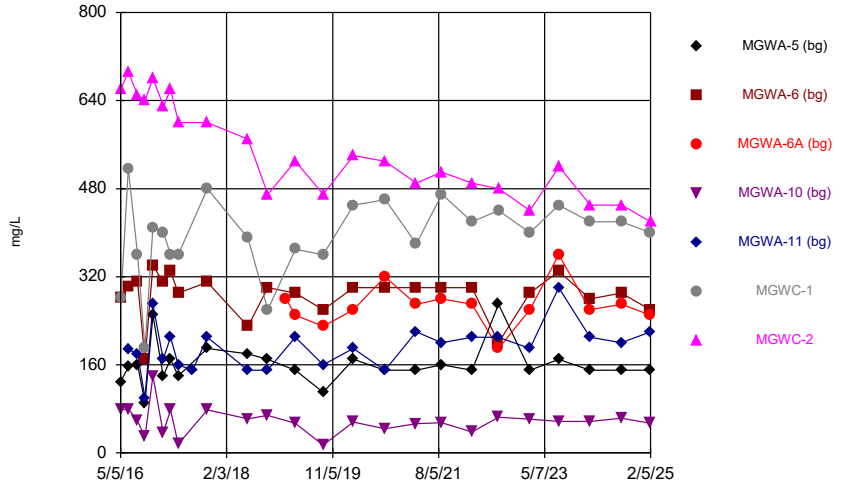
Time Series



Constituent: Sulfate Analysis Run 3/26/2025 12:55 PM
Plant McIntosh Client: Southern Company Data: McIntosh AP-1

Sanitas™ v.10.0.24 Software licensed to Groundwater Stats Consulting. UG

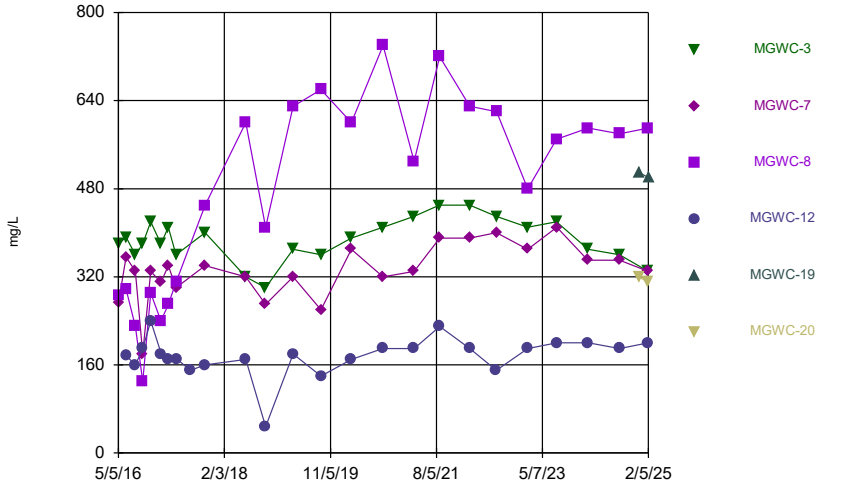
Time Series



Constituent: TDS Analysis Run 3/26/2025 12:55 PM
Plant McIntosh Client: Southern Company Data: McIntosh AP-1

Sanitas™ v.10.0.24 Software licensed to Groundwater Stats Consulting. UG

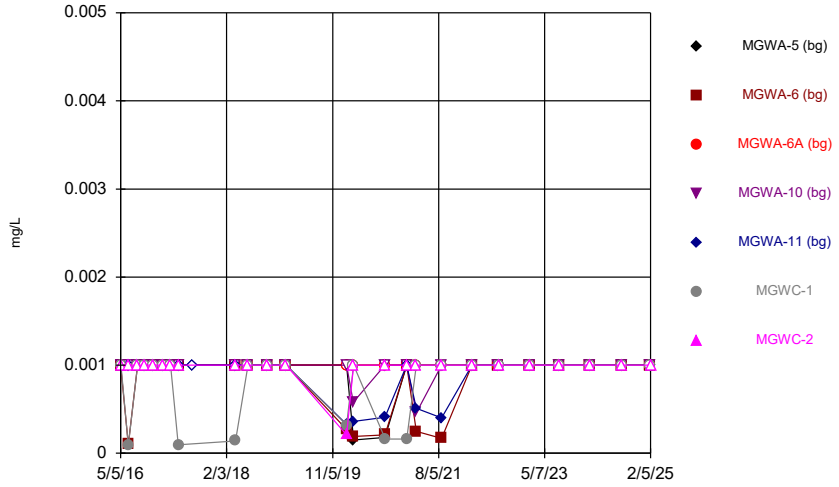
Time Series



Constituent: TDS Analysis Run 3/26/2025 12:55 PM
Plant McIntosh Client: Southern Company Data: McIntosh AP-1

Sanitas™ v.10.0.24 Software licensed to Groundwater Stats Consulting. UG
Hollow symbols indicate censored values.

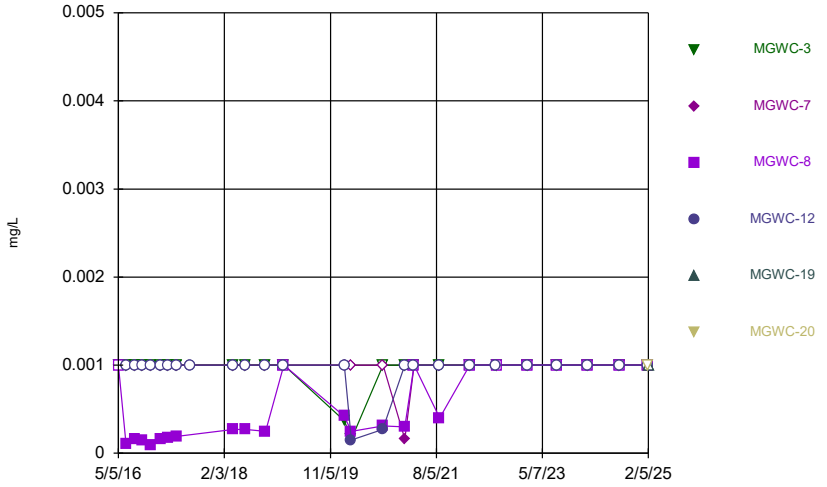
Time Series



Constituent: Thallium Analysis Run 3/26/2025 12:55 PM
Plant McIntosh Client: Southern Company Data: McIntosh AP-1

Sanitas™ v.10.0.24 Software licensed to Groundwater Stats Consulting. UG
Hollow symbols indicate censored values.

Time Series



Constituent: Thallium Analysis Run 3/26/2025 12:55 PM
Plant McIntosh Client: Southern Company Data: McIntosh AP-1

Time Series

Constituent: Antimony (mg/L) Analysis Run 3/26/2025 12:56 PM

Plant McIntosh Client: Southern Company Data: McIntosh AP-1

	MGWA-5 (bg)	MGWA-6 (bg)	MGWA-6A (bg)	MGWA-10 (bg)	MGWA-11 (bg)	MGWC-1	MGWC-2
5/5/2016	0.0012 (J)	<0.002		0.00112 (J)			
5/6/2016						<0.002	<0.002
6/20/2016	<0.002			<0.002	<0.002		
6/21/2016		0.0017 (J)				<0.002	<0.002
8/15/2016	<0.002	<0.002		<0.002	<0.002		
8/16/2016						<0.002	<0.002
9/28/2016	<0.002	<0.002		<0.002	<0.002	<0.002	
9/29/2016							<0.002
11/16/2016	<0.002	<0.002		<0.002	<0.002	<0.002	<0.002
1/16/2017				<0.002			
1/17/2017	<0.002	<0.002			<0.002		
1/18/2017							<0.002
1/19/2017						<0.002	
3/2/2017	<0.002	<0.002		<0.002	<0.002	<0.002	<0.002
4/18/2017	<0.002	<0.002		<0.002	<0.002	<0.002	
4/19/2017							<0.002
7/13/2017					<0.002		
3/29/2018	<0.002	<0.002		<0.002	<0.002	<0.002	
3/30/2018							<0.002
1/28/2019				<0.002	<0.002		
1/29/2019	<0.002	<0.002	<0.002			<0.002	<0.002
1/28/2020	<0.002	<0.002	<0.002	0.00049 (J)	<0.002		
1/29/2020						<0.002	<0.002
3/9/2020				<0.002	<0.002		
3/10/2020	<0.002	<0.002	<0.002			<0.002	<0.002
9/16/2020	<0.002	<0.002	<0.002	0.00098 (J)	0.0011 (J)		<0.002
9/17/2020						<0.002	
1/25/2021				<0.002			
1/26/2021	<0.002	<0.002	<0.002		<0.002	0.00038 (J)	<0.002
3/23/2021		<0.002	<0.002	<0.002	<0.002		
3/24/2021	<0.002					<0.002	<0.002
8/23/2021				<0.002	0.00052 (J)		
8/24/2021	<0.002	<0.002	<0.002				<0.002
8/25/2021						<0.002	
2/22/2022	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	
2/23/2022							<0.002
8/2/2022	<0.002	<0.002	<0.002	<0.002	<0.002		
8/3/2022						<0.002	
8/4/2022							<0.002
2/7/2023	<0.002	<0.002	<0.002	<0.002	<0.002		
2/8/2023						<0.002	<0.002
8/1/2023	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	
8/2/2023							<0.002
2/6/2024	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	
2/7/2024							<0.002
8/13/2024	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	
8/14/2024							<0.002
2/3/2025	<0.002	<0.002					
2/4/2025			<0.002	<0.002	<0.002	<0.002	
2/5/2025							<0.002

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Antimony (mg/L) Analysis Run 3/26/2025 12:56 PM

Plant McIntosh Client: Southern Company Data: McIntosh AP-1

	MGWC-3	MGWC-7	MGWC-8	MGWC-12	MGWC-19	MGWC-20
5/5/2016		0.00197 (J)	<0.002			
5/6/2016	<0.002					
6/21/2016	0.0003 (J)	<0.002	<0.002	0.0004 (J)		
8/15/2016		<0.002	<0.002			
8/16/2016	<0.002			<0.002		
9/28/2016		<0.002	<0.002			
9/29/2016	<0.002			<0.002		
11/16/2016	<0.002	<0.002	<0.002	<0.002		
1/17/2017	<0.002	<0.002	<0.002			
1/18/2017				<0.002		
3/2/2017	<0.002	<0.002	<0.002	<0.002		
4/18/2017	<0.002	<0.002	<0.002			
4/25/2017				<0.002		
7/13/2017				<0.002		
3/29/2018		<0.002		<0.002		
3/30/2018	<0.002		<0.002			
1/29/2019	<0.002	<0.002	<0.002	<0.002		
1/28/2020		<0.002		<0.002		
1/29/2020	<0.002		<0.002			
3/10/2020	<0.002	<0.002	<0.002	<0.002		
9/16/2020				<0.002		
9/17/2020	<0.002	<0.002	<0.002			
1/26/2021	0.00044 (J)	<0.002	<0.002	<0.002		
3/24/2021	<0.002	<0.002	<0.002	<0.002		
8/24/2021	<0.002					
8/25/2021		<0.002	<0.002	<0.002		
2/22/2022				<0.002		
2/23/2022	<0.002	<0.002	<0.002			
8/2/2022				0.0015 (J)		
8/3/2022	<0.002	<0.002				
8/4/2022			<0.002			
2/7/2023	<0.002			<0.002		
2/8/2023		0.00051 (J)	<0.002			
8/1/2023	<0.002		<0.002			
8/2/2023		<0.002		<0.002		
2/6/2024		<0.002				
2/7/2024	<0.002		<0.002	<0.002		
8/14/2024	<0.002	<0.002	<0.002	<0.002		
2/4/2025	<0.002	<0.002	<0.002	<0.002		<0.002
2/5/2025					<0.002	

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Arsenic (mg/L) Analysis Run 3/26/2025 12:56 PM

Plant McIntosh Client: Southern Company Data: McIntosh AP-1

	MGWA-5 (bg)	MGWA-6 (bg)	MGWA-6A (bg)	MGWA-10 (bg)	MGWA-11 (bg)	MGWC-1	MGWC-2
5/5/2016	<0.001	0.0343		<0.001			
5/6/2016						0.00299 (J)	<0.001
6/7/2016		0.036					
6/20/2016	0.00014 (J)			0.00036 (J)	0.003 (J)		
6/21/2016		0.0352				0.0047 (J)	<0.001
8/15/2016	<0.001	0.035		0.00096 (J)	0.0033		
8/16/2016						0.003	<0.001
9/28/2016	0.00062 (J)	0.033		0.00095 (J)	0.0026	0.0036	
9/29/2016							<0.001
11/16/2016	<0.001	0.02		<0.001	0.0013	0.003	0.00068 (J)
1/16/2017				<0.001			
1/17/2017	<0.001	0.022			<0.00125		
1/18/2017							<0.001
1/19/2017						0.0024	
3/2/2017	<0.001	0.021		<0.001	0.0015	0.0027	0.00065 (J)
4/18/2017	<0.001	0.018		<0.001	0.00071 (J)	0.0024	
4/19/2017							<0.001
7/13/2017					0.00066 (J)		
3/29/2018	<0.001	0.014		<0.001	0.002	0.0023	
3/30/2018							<0.001
6/12/2018	<0.001			<0.001	0.0017		
6/13/2018		0.011				0.0021	<0.001
10/9/2018	<0.001			<0.001	0.00072 (J)		
10/10/2018		0.014				0.0024	<0.001
1/28/2019				<0.001	<0.00125		
1/29/2019	<0.001	0.00972	0.01075 (D)			0.00255	<0.001
3/25/2019	0.00069 (J)		0.0012 (J)	<0.001	0.0022		
3/26/2019		0.0097				0.002	<0.001
9/10/2019	0.00039 (J)	0.0085	0.0021	<0.001	0.0018	0.0018	0.00036 (J)
1/28/2020	0.00036 (J)	0.0063	0.0028	<0.001	0.0014		
1/29/2020						0.0021	0.0004 (J)
3/9/2020				<0.001	0.00073 (J)		
3/10/2020	0.00031 (J)	0.0093	0.0029			0.0019	<0.001
9/16/2020	0.00035 (J)	0.0089	0.011	<0.001	0.00069 (J)		<0.001
9/17/2020						0.002	
1/25/2021				<0.001			
1/26/2021	0.00034 (J)	0.0094	0.0045		0.0022	0.0033	<0.001
3/23/2021		0.0089	0.0098	0.00033 (J)	0.0023		
3/24/2021	0.00033 (J)					0.0024	<0.001
8/23/2021				<0.001	0.00077 (J)		
8/24/2021	<0.001	0.0087	0.0021				<0.001
8/25/2021						0.00092 (J)	
2/22/2022	0.00052 (J)	0.011	0.013	<0.001	0.0024	0.0014	
2/23/2022							<0.001
8/2/2022	<0.001	0.0093	0.002	<0.001	0.0022		
8/3/2022						0.0015	
8/4/2022							<0.001
2/7/2023	<0.001	0.011	0.013	<0.001	0.0025		
2/8/2023						0.0016	<0.001
8/1/2023	<0.001	0.01	0.0046	<0.001	0.0025	0.0012	
8/2/2023							<0.001
2/6/2024	0.00092 (J)	0.011	0.012	0.00088 (J)	0.0031	0.0023	

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Arsenic (mg/L) Analysis Run 3/26/2025 12:56 PM

Plant McIntosh Client: Southern Company Data: McIntosh AP-1

	MGWA-5 (bg)	MGWA-6 (bg)	MGWA-6A (bg)	MGWA-10 (bg)	MGWA-11 (bg)	MGWC-1	MGWC-2
2/7/2024							<0.001
8/13/2024	<0.001	0.011	0.0076	<0.001	0.0033	0.0018	
8/14/2024							<0.001
2/3/2025	<0.001	0.011					
2/4/2025			0.011	0.0011	0.0033	0.0014	
2/5/2025							<0.001

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Arsenic (mg/L) Analysis Run 3/26/2025 12:56 PM

Plant McIntosh Client: Southern Company Data: McIntosh AP-1

	MGWC-3	MGWC-7	MGWC-8	MGWC-12	MGWC-19	MGWC-20
5/5/2016		0.00143 (J)	<0.001			
5/6/2016	0.00154 (J)					
6/21/2016	0.0016 (J)	0.0009 (J)	<0.001	0.0015 (J)		
8/15/2016		0.0012 (J)	<0.001			
8/16/2016	0.0017			0.00082 (J)		
9/28/2016		0.00084 (J)	<0.001			
9/29/2016	0.0013			0.0019		
11/16/2016	0.0014	<0.001	<0.001	0.0017		
1/17/2017	0.00056 (J)	<0.001	<0.001			
1/18/2017				0.00096 (J)		
3/2/2017	0.0018	0.0009 (J)	<0.001	0.00082 (J)		
4/18/2017	0.0018	0.0005 (J)	0.00059 (J)			
4/25/2017				<0.001		
7/13/2017				0.00047 (J)		
3/29/2018		0.00066 (J)		0.00053 (J)		
3/30/2018	0.0017		<0.001			
6/12/2018				0.00063 (J)		
6/13/2018	0.0015	<0.001	<0.001			
10/10/2018	0.0016	<0.001	<0.001	0.00098 (J)		
1/29/2019	0.00143	<0.001	<0.001	<0.001		
3/26/2019	0.0012 (J)	<0.001	<0.001	0.00079 (J)		
9/10/2019	0.0017	0.00074 (J)	0.00056 (J)	0.0011		
1/28/2020		0.00046 (J)		0.00051 (J)		
1/29/2020	0.0017		0.00047 (J)			
3/10/2020	<0.005	<0.001	<0.001	<0.001		
9/16/2020				<0.001		
9/17/2020	0.0015	0.00045 (J)	<0.001			
1/26/2021	0.0018	<0.001	<0.001	<0.001		
3/24/2021	0.0018	0.00046 (J)	0.00099 (J)	<0.001		
8/24/2021	0.0014					
8/25/2021		0.00055 (J)	<0.001	<0.001		
2/22/2022				0.00089 (J)		
2/23/2022	0.0016	0.0004 (J)	0.00044 (J)			
8/2/2022				0.0015		
8/3/2022	0.0016	0.00052 (J)				
8/4/2022			0.00075 (J)			
2/7/2023	0.0018			0.00098 (J)		
2/8/2023		<0.001	0.001			
8/1/2023	0.0017		0.00098 (J)			
8/2/2023		<0.001		<0.001		
2/6/2024		0.0012				
2/7/2024	0.0021		0.0017	0.0012		
8/14/2024	0.0022	<0.001	0.0019	<0.001		
2/4/2025	0.0021	0.001	0.0014	0.0011		0.0022
2/5/2025					0.0014	

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Barium (mg/L) Analysis Run 3/26/2025 12:56 PM

Plant McIntosh Client: Southern Company Data: McIntosh AP-1

	MGWA-5 (bg)	MGWA-6 (bg)	MGWA-6A (bg)	MGWA-10 (bg)	MGWA-11 (bg)	MGWC-1	MGWC-2
5/5/2016	0.0295	0.0595		0.0376			
5/6/2016						0.11	0.0605
6/20/2016	0.031			0.033	0.091		
6/21/2016		0.0539				0.165	0.0613
8/15/2016	0.032	0.053		0.029	0.11		
8/16/2016						0.094	0.052
9/28/2016	0.038	0.06		0.032	0.12	0.1	
9/29/2016							0.053
11/16/2016	0.035	0.052		0.027	0.11	0.096	0.056
1/16/2017				0.022			
1/17/2017	0.039	0.051			0.11		
1/18/2017							0.06
1/19/2017						0.12	
3/2/2017	0.037	0.043		0.027	0.11	0.097	0.056
4/18/2017	0.035	0.042		0.024	0.1	0.092	
4/19/2017							0.051
7/13/2017					0.087		
3/29/2018	0.037	0.043		0.021	0.11	0.095	
3/30/2018							0.049
6/12/2018	0.036			0.025	0.068		
6/13/2018		0.037				0.096	0.05
10/9/2018	0.034			0.024	0.072		
10/10/2018		0.037				0.095	0.046
1/28/2019				0.0249	0.0834		
1/29/2019	0.0363	0.0393	0.0421			0.107	0.0496
3/25/2019	0.035		0.044	0.023	0.11		
3/26/2019		0.033				0.096	0.048
9/10/2019	0.035	0.04	0.042	0.031	0.13	0.11	0.053
1/28/2020	0.034	0.034	0.037	0.025	0.13		
1/29/2020						0.11	0.051
3/9/2020				0.023	0.094		
3/10/2020	0.043	0.031	0.035			0.13	0.049
9/16/2020	0.037	0.028	0.034	0.025	0.078		0.048
9/17/2020						0.11	
1/25/2021				0.023			
1/26/2021	0.039	0.029	0.03		0.13	0.14	0.049
3/23/2021		0.028	0.031	0.02	0.13		
3/24/2021	0.032					0.1	0.049
8/23/2021				0.024	0.096		
8/24/2021	0.027	0.026	0.026				0.047
8/25/2021						0.11	
2/22/2022	0.038	0.03	0.034	0.022	0.13	0.11	
2/23/2022							0.046
8/2/2022	0.031	0.034	0.023	0.018	0.12		
8/3/2022						0.11	
8/4/2022							0.042
2/7/2023	0.028	0.03	0.032	0.021	0.1		
2/8/2023						0.1	0.044
8/1/2023	0.037	0.029	0.029	0.021	0.12	0.1	
8/2/2023							0.04
2/6/2024	0.039	0.029	0.031	0.023	0.13	0.12	
2/7/2024							0.047

Time Series

Constituent: Barium (mg/L) Analysis Run 3/26/2025 12:56 PM

Plant McIntosh Client: Southern Company Data: McIntosh AP-1

	MGWA-5 (bg)	MGWA-6 (bg)	MGWA-6A (bg)	MGWA-10 (bg)	MGWA-11 (bg)	MGWC-1	MGWC-2
8/13/2024	0.038	0.029	0.033	0.023	0.11	0.11	
8/14/2024							0.045
2/3/2025	0.039	0.03					
2/4/2025			0.034	0.019	0.15	0.12	
2/5/2025							0.057

Time Series

Constituent: Barium (mg/L) Analysis Run 3/26/2025 12:56 PM

Plant McIntosh Client: Southern Company Data: McIntosh AP-1

	MGWC-3	MGWC-7	MGWC-8	MGWC-12	MGWC-19	MGWC-20
5/5/2016		0.039	0.0364			
5/6/2016	0.151					
6/21/2016	0.174	0.0152	0.0386	0.0439		
8/15/2016		0.015	0.03			
8/16/2016	0.13			0.041		
9/28/2016		0.014	0.034			
9/29/2016	0.14			0.052		
11/16/2016	0.14	0.013	0.034	0.044		
1/17/2017	0.16	0.014	0.038			
1/18/2017				0.056		
3/2/2017	0.15	0.013	0.037	0.04		
4/18/2017	0.14	0.011	0.04			
4/25/2017				0.042		
7/13/2017				0.043		
3/29/2018		0.01		0.061		
3/30/2018	0.13		0.041			
6/12/2018				0.063		
6/13/2018	0.14	0.0098	0.038			
10/10/2018	0.13	0.011	0.035	0.071		
1/29/2019	0.138	0.00873	0.0344	0.06		
3/26/2019	0.13	0.0086	0.032	0.06		
9/10/2019	0.15	0.012	0.035	0.073		
1/28/2020		0.012		0.069		
1/29/2020	0.15		0.033			
3/10/2020	0.15	0.013	0.036	0.056		
9/16/2020				0.1		
9/17/2020	0.16	0.0091 (J)	0.028			
1/26/2021	0.16	0.007 (J)	0.028	0.06		
3/24/2021	0.16	0.011	0.054	0.056		
8/24/2021	0.16					
8/25/2021		0.013	0.031	0.051		
2/22/2022				0.067		
2/23/2022	0.17	0.014	0.036			
8/2/2022				0.057		
8/3/2022	0.15	0.018				
8/4/2022			0.043			
2/7/2023	0.16			0.06		
2/8/2023		0.02	0.052			
8/1/2023	0.16		0.056			
8/2/2023		0.015		0.055		
2/6/2024		0.024				
2/7/2024	0.18		0.061	0.055		
8/14/2024	0.15	0.019	0.064	0.048		
2/4/2025	0.15	0.019	0.065	0.061		0.043
2/5/2025					0.025	

Time Series

Constituent: Beryllium (mg/L) Analysis Run 3/26/2025 12:56 PM

Plant McIntosh Client: Southern Company Data: McIntosh AP-1

	MGWA-5 (bg)	MGWA-6 (bg)	MGWA-6A (bg)	MGWA-10 (bg)	MGWA-11 (bg)	MGWC-1	MGWC-2
5/5/2016	<0.0025	<0.0025		<0.0025			
5/6/2016						<0.0025	<0.0025
6/20/2016	<0.0025			3.3E-05 (J)	<0.0025		
6/21/2016		<0.0025				<0.0025	<0.0025
8/15/2016	<0.0025	<0.0025		<0.0025	<0.0025		
8/16/2016						<0.0025	<0.0025
9/28/2016	<0.0025	<0.0025		<0.0025	<0.0025	<0.0025	
9/29/2016							<0.0025
11/16/2016	<0.0025	<0.0025		<0.0025	<0.0025	<0.0025	<0.0025
1/16/2017				<0.0025			
1/17/2017	<0.0025	<0.0025			<0.0025		
1/18/2017							<0.0025
1/19/2017						<0.0025	
3/2/2017	<0.0025	<0.0025		<0.0025	<0.0025	<0.0025	<0.0025
4/18/2017	<0.0025	<0.0025		<0.0025	<0.0025	<0.0025	
4/19/2017							<0.0025
7/13/2017					<0.0025		
3/29/2018	<0.0025	<0.0025		<0.0025	<0.0025	<0.0025	
3/30/2018							<0.0025
6/12/2018	<0.0025			<0.0025	<0.0025		
6/13/2018		<0.0025				<0.0025	<0.0025
10/9/2018	<0.0025			<0.0025	<0.0025		
10/10/2018		<0.0025				<0.0025	<0.0025
1/28/2019				<0.0025	<0.0025		
1/29/2019	<0.0025	<0.0025	<0.0025			<0.0025	<0.0025
1/28/2020	<0.0025	<0.0025	<0.0025	<0.0025	0.0004 (J)		
1/29/2020						0.00018 (J)	<0.0025
3/9/2020				0.00045 (J)	0.00018 (J)		
3/10/2020	<0.0025	<0.0025	<0.0025			<0.0025	<0.0025
9/16/2020	<0.0025	<0.0025	<0.0025	<0.0025	<0.0025		<0.0025
9/17/2020						<0.0025	
1/25/2021				<0.0025			
1/26/2021	<0.0025	<0.0025	<0.0025		<0.0025	<0.0025	<0.0025
3/23/2021		<0.0025	<0.0025	0.00022 (J)	<0.0025		
3/24/2021	<0.0025					<0.0025	<0.0025
8/23/2021				<0.0025	<0.0025		
8/24/2021	<0.0025	<0.0025	<0.0025				<0.0025
8/25/2021						<0.0025	
2/22/2022	<0.0025	<0.0025	<0.0025	<0.0025	<0.0025	<0.0025	
2/23/2022							<0.0025
8/2/2022	<0.0025	<0.0025	<0.0025	<0.0025	<0.0025		
8/3/2022						<0.0025	
8/4/2022							<0.0025
2/7/2023	<0.0025	<0.0025	<0.0025	<0.0025	<0.0025		
2/8/2023						<0.0025	<0.0025
8/1/2023	<0.0025	<0.0025	<0.0025	<0.0025	<0.0025	<0.0025	
8/2/2023							<0.0025
2/6/2024	<0.0025	<0.0025	<0.0025	<0.0025	<0.0025	<0.0025	
2/7/2024							<0.0025
8/13/2024	<0.0025	<0.0025	<0.0025	<0.0025	<0.0025	<0.0025	
8/14/2024							<0.0025
2/3/2025	<0.0025	<0.0025					

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Beryllium (mg/L) Analysis Run 3/26/2025 12:56 PM

Plant McIntosh Client: Southern Company Data: McIntosh AP-1

	MGWA-5 (bg)	MGWA-6 (bg)	MGWA-6A (bg)	MGWA-10 (bg)	MGWA-11 (bg)	MGWC-1	MGWC-2
2/4/2025			<0.0025	<0.0025	<0.0025	<0.0025	
2/5/2025							<0.0025

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Beryllium (mg/L) Analysis Run 3/26/2025 12:56 PM

Plant McIntosh Client: Southern Company Data: McIntosh AP-1

	MGWC-3	MGWC-7	MGWC-8	MGWC-12	MGWC-19	MGWC-20
5/5/2016		<0.0025	<0.0025			
5/6/2016	<0.0025					
6/21/2016	<0.0025	<0.0025	0.0004 (J)	<0.0025		
8/15/2016		<0.0025	0.00053 (J)			
8/16/2016	<0.0025			<0.0025		
9/28/2016		<0.0025	0.00049 (J)			
9/29/2016	<0.0025			<0.0025		
11/16/2016	<0.0025	<0.0025	0.0004 (J)	<0.0025		
1/17/2017	<0.0025	<0.0025	0.00084 (J)			
1/18/2017				<0.0025		
3/2/2017	<0.0025	<0.0025	0.00068 (J)	<0.0025		
4/18/2017	<0.0025	<0.0025	0.00067 (J)			
4/25/2017				<0.0025		
7/13/2017				<0.0025		
3/29/2018		<0.0025		<0.0025		
3/30/2018	<0.0025		0.0015 (J)			
6/12/2018				<0.0025		
6/13/2018	<0.0025	<0.0025	0.0012 (J)			
10/10/2018	<0.0025	<0.0025	0.0016 (J)	<0.0025		
1/29/2019	<0.0025	<0.0025	<0.0025	<0.0025		
1/28/2020		<0.0025		<0.0025		
1/29/2020	0.00031 (J)		0.0019			
3/10/2020	<0.0025	<0.0025	0.0013 (J)	<0.0025		
9/16/2020				<0.0025		
9/17/2020	<0.0025	<0.0025	0.0019 (J)			
1/26/2021	<0.0025	<0.0025	0.0018 (J)	<0.0025		
3/24/2021	<0.0025	<0.0025	<0.0025	<0.0025		
8/24/2021	<0.0025					
8/25/2021		<0.0025	0.0015 (J)	<0.0025		
2/22/2022				<0.0025		
2/23/2022	<0.0025	<0.0025	0.0014 (J)			
8/2/2022				<0.0025		
8/3/2022	<0.0025	<0.0025				
8/4/2022			0.00064 (J)			
2/7/2023	<0.0025			<0.0025		
2/8/2023		<0.0025	0.0002 (J)			
8/1/2023	<0.0025		0.00025 (J)			
8/2/2023		<0.0025		<0.0025		
2/6/2024		<0.0025				
2/7/2024	<0.0025		<0.0025	<0.0025		
8/14/2024	<0.0025	<0.0025	<0.0025	<0.0025		
2/4/2025	<0.0025	<0.0025	<0.0025	<0.0025		<0.0025
2/5/2025					<0.0025	

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Boron (mg/L) Analysis Run 3/26/2025 12:56 PM

Plant McIntosh Client: Southern Company Data: McIntosh AP-1

	MGWA-5 (bg)	MGWA-6 (bg)	MGWA-6A (bg)	MGWA-10 (bg)	MGWA-11 (bg)	MGWC-1	MGWC-2
5/5/2016	<0.08	0.157		<0.08			
5/6/2016						0.567	3.78
6/20/2016	0.013 (J)			0.011 (J)	0.017 (J)		
6/21/2016		0.124				1.55	3.1
8/15/2016	0.023 (J)	0.18		0.022 (J)	0.032 (J)		
8/16/2016						0.85	2.8
9/28/2016	<0.08	0.17		0.023 (J)	0.021 (J)	0.7	
9/29/2016							3.1
11/16/2016	<0.08	0.17		<0.08	<0.08	0.88	3.9
1/16/2017				0.021 (J)			
1/17/2017	<0.08	0.17			<0.08		
1/18/2017							3.7
1/19/2017						1.5	
3/2/2017	<0.08	0.14		<0.08	<0.08	0.89	3.3
4/18/2017	<0.08	0.14		<0.08	<0.08	1.1	
4/19/2017							3.7
7/13/2017					<0.08		
10/10/2017	<0.08	0.12		0.021 (J)	0.025 (J)	1.9	3.4
6/12/2018	<0.08			<0.08	<0.08		
6/13/2018		0.11				1.2	3
10/9/2018	<0.08			<0.08	<0.08		
10/10/2018		0.096				1.2	3
1/29/2019			<0.08				
3/25/2019	<0.08		<0.08	<0.08	<0.08		
3/26/2019		0.079				1.3	2.6
9/10/2019	<0.08	0.097	0.04 (J)	<0.08	<0.08	1.5	2.4
3/9/2020				0.045 (J)	<0.08		
3/10/2020	<0.08	0.051 (J)	<0.08			1.9	2.3
9/16/2020	<0.08	0.041 (J)	0.04 (J)	<0.08	0.045 (J)		2.1
9/17/2020						1.8	
3/23/2021		<0.08	<0.08	<0.08	0.047 (J)		
3/24/2021	<0.08					0.57	2.4
8/23/2021				<0.08	0.043 (J)		
8/24/2021	<0.08	<0.08	<0.08				2.2
8/25/2021						1.7	
2/22/2022	<0.08	<0.08	<0.08	<0.08	<0.08	1.7	
2/23/2022							2
8/2/2022	<0.08	<0.08	<0.08	<0.08	<0.08		
8/3/2022						1.7	
8/4/2022							1.9
2/7/2023	0.022 (J)	0.028 (J)	0.039 (J)	<0.08	0.028 (J)		
2/8/2023						1.5	1.8
8/1/2023	0.037 (J)	0.057 (J)	0.038 (J)	0.035 (J)	0.045 (J)	1.6	
8/2/2023							1.8
2/6/2024	0.044 (J)	0.026 (J)	0.084	<0.08	0.047 (J)	1.6	
2/7/2024							1.9
8/13/2024	0.026 (J)	0.031 (J)	0.033 (J)	<0.08	0.026 (J)	1.7	
8/14/2024							1.7
2/3/2025	0.081	0.028 (J)					
2/4/2025			0.03 (J)	<0.08	0.035 (J)	1.6	
2/5/2025							1.7

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Boron (mg/L) Analysis Run 3/26/2025 12:56 PM

Plant McIntosh Client: Southern Company Data: McIntosh AP-1

	MGWC-3	MGWC-7	MGWC-8	MGWC-12	MGWC-19	MGWC-20
5/5/2016		0.855	0.976			
5/6/2016	0.926					
6/21/2016	0.792	1.15	0.862	0.0201 (J)		
8/15/2016		1.3	0.8			
8/16/2016	1			0.055		
9/28/2016		1.3	0.8			
9/29/2016	1			<0.08		
11/16/2016	1.2	1.3	0.98	0.055		
1/17/2017	1.3	1.3	1.6			
1/18/2017				0.097		
3/2/2017	1.3	1.3	1.8	0.064		
4/18/2017	1.8	1.5	2.4			
4/25/2017				<0.08		
7/13/2017				<0.08		
10/10/2017	1.7	1.4	4.2	<0.08		
6/12/2018				<0.08		
6/13/2018	1.6	1.4	4.9			
10/10/2018	1.6	1.4	5.1	0.034 (J)		
3/26/2019	1.5	1.5	5.1	0.032 (J)		
9/10/2019	1.5	1.5	4.8	0.06 (J)		
3/10/2020	1.3	1.4	4	<0.08		
9/16/2020				<0.08		
9/17/2020	1.2	1.4	4.4			
3/24/2021	1.2	1.5	3.6	<0.08		
8/24/2021	0.97					
8/25/2021		1.6	4.2	0.11		
2/22/2022				<0.08		
2/23/2022	0.83	2.1	4.1			
8/2/2022				0.071 (J)		
8/3/2022	0.76	2.3				
8/4/2022			4.3			
2/7/2023	0.63			0.067 (J)		
2/8/2023		2.1	3.9			
8/1/2023	0.65		4.3			
8/2/2023		2.2		0.062 (J)		
2/6/2024		2.4				
2/7/2024	0.59		5.1	0.023 (J)		
8/14/2024	0.42	2.1	5.1	0.029 (J)		
12/9/2024					1.3	1.4
2/4/2025	0.45	2.4	5.9	0.03 (J)		1.6
2/5/2025					1.4	

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Cadmium (mg/L) Analysis Run 3/26/2025 12:56 PM

Plant McIntosh Client: Southern Company Data: McIntosh AP-1

	MGWA-5 (bg)	MGWA-6 (bg)	MGWA-6A (bg)	MGWA-10 (bg)	MGWA-11 (bg)	MGWC-1	MGWC-2
5/5/2016	<0.0025	<0.0025		<0.0025			
5/6/2016						0.000126 (J)	0.00166
6/20/2016	<0.0025			<0.0025	<0.0025		
6/21/2016		<0.0025				0.0005 (J)	0.0008 (J)
8/15/2016	<0.0025	<0.0025		<0.0025	<0.0025		
8/16/2016						<0.0025	0.0034
9/28/2016	<0.0025	<0.0025		<0.0025	<0.0025	<0.0025	
9/29/2016							0.0027
11/16/2016	<0.0025	<0.0025		<0.0025	<0.0025	<0.0025	0.0022 (J)
1/16/2017				<0.0025			
1/17/2017	<0.0025	<0.0025			<0.0025		
1/18/2017							0.008
1/19/2017						<0.0025	
3/2/2017	<0.0025	<0.0025		<0.0025	<0.0025	<0.0025	0.005
4/18/2017	<0.0025	<0.0025		<0.0025	<0.0025	<0.0025	
4/19/2017							0.0011 (J)
7/13/2017					<0.0025		
3/29/2018	<0.0025	<0.0025		<0.0025	<0.0025	<0.0025	
3/30/2018							0.0016 (J)
6/12/2018	<0.0025			<0.0025	<0.0025		
6/13/2018		<0.0025				<0.0025	0.0016 (J)
10/9/2018	<0.0025			<0.0025	<0.0025		
10/10/2018		<0.0025				<0.0025	0.001 (J)
1/28/2019				<0.0025	<0.0025		
1/29/2019	<0.0025	<0.0025	<0.0025			<0.0025	0.00315
3/25/2019	<0.0025		<0.0025	<0.0025	<0.0025		
3/26/2019		<0.0025				<0.0025	0.0019 (J)
9/10/2019	<0.0025	<0.0025	<0.0025	<0.0025	<0.0025	0.00017 (J)	0.0011
1/28/2020	<0.0025	<0.0025	<0.0025	<0.0025	<0.0025		
1/29/2020						<0.0025	0.0054
3/9/2020				0.00023 (J)	<0.0025		
3/10/2020	<0.0025	<0.0025	<0.0025			<0.0025	0.0011 (J)
9/16/2020	<0.0025	<0.0025	<0.0025	<0.0025	<0.0025		0.00053 (J)
9/17/2020						<0.0025	
1/25/2021				<0.0025			
1/26/2021	<0.0025	<0.0025	<0.0025		<0.0025	0.00024 (J)	0.0011 (J)
3/23/2021		<0.0025	<0.0025	<0.0025	<0.0025		
3/24/2021	<0.0025					<0.0025	0.0022 (J)
8/23/2021				<0.0025	<0.0025		
8/24/2021	<0.0025	<0.0025	<0.0025				0.00054 (J)
8/25/2021						<0.0025	
2/22/2022	<0.0025	<0.0025	<0.0025	<0.0025	<0.0025	<0.0025	
2/23/2022							0.0039
8/2/2022	<0.0025	<0.0025	<0.0025	<0.0025	<0.0025		
8/3/2022						8.5E-05 (J)	
8/4/2022							0.0002 (J)
2/7/2023	<0.0025	<0.0025	<0.0025	<0.0025	<0.0025		
2/8/2023						0.00012 (J)	0.0021 (J)
8/1/2023	<0.0025	<0.0025	<0.0025	<0.0025	<0.0025	<0.0025	
8/2/2023							0.00032 (J)
2/6/2024	<0.0025	<0.0025	<0.0025	<0.0025	<0.0025	<0.0025	
2/7/2024							0.00034 (J)

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Cadmium (mg/L) Analysis Run 3/26/2025 12:56 PM

Plant McIntosh Client: Southern Company Data: McIntosh AP-1

	MGWA-5 (bg)	MGWA-6 (bg)	MGWA-6A (bg)	MGWA-10 (bg)	MGWA-11 (bg)	MGWC-1	MGWC-2
8/13/2024	<0.0025	<0.0025	<0.0025	<0.0025	<0.0025	<0.0025	
8/14/2024							0.00068 (J)
2/3/2025	<0.0025	<0.0025					
2/4/2025			<0.0025	<0.0025	<0.0025	<0.0025	
2/5/2025							0.00021 (J)

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Cadmium (mg/L) Analysis Run 3/26/2025 12:56 PM

Plant McIntosh Client: Southern Company Data: McIntosh AP-1

	MGWC-3	MGWC-7	MGWC-8	MGWC-12	MGWC-19	MGWC-20
5/5/2016		<0.0025	0.000784 (J)			
5/6/2016	<0.0025					
6/21/2016	<0.0025	<0.0025	0.0003 (J)	<0.0025		
8/15/2016		<0.0025	<0.0025			
8/16/2016	<0.0025			<0.0025		
9/28/2016		<0.0025	<0.0025			
9/29/2016	<0.0025			<0.0025		
11/16/2016	<0.0025	<0.0025	<0.0025	<0.0025		
1/17/2017	<0.0025	<0.0025	<0.0025			
1/18/2017				<0.0025		
3/2/2017	<0.0025	<0.0025	<0.0025	<0.0025		
4/18/2017	<0.0025	<0.0025	0.00044 (J)			
4/25/2017				<0.0025		
7/13/2017				<0.0025		
3/29/2018		<0.0025		<0.0025		
3/30/2018	<0.0025		0.00058 (J)			
6/12/2018				<0.0025		
6/13/2018	<0.0025	<0.0025	0.00076 (J)			
10/10/2018	<0.0025	<0.0025	0.00035 (J)	<0.0025		
1/29/2019	<0.0025	<0.0025	<0.0025	<0.0025		
3/26/2019	<0.0025	<0.0025	0.0005 (J)	<0.0025		
9/10/2019	<0.0025	<0.0025	0.00079 (J)	<0.0025		
1/28/2020		<0.0025		<0.0025		
1/29/2020	<0.0025		0.0009 (J)			
3/10/2020	<0.0025	<0.0025	0.0011 (J)	<0.0025		
9/16/2020				<0.0025		
9/17/2020	<0.0025	0.00023 (J)	0.00072 (J)			
1/26/2021	<0.0025	<0.0025	0.0016 (J)	<0.0025		
3/24/2021	<0.0025	<0.0025	0.001 (J)	<0.0025		
8/24/2021	<0.0025					
8/25/2021		<0.0025	0.0046	<0.0025		
2/22/2022				<0.0025		
2/23/2022	<0.0025	<0.0025	0.0014 (J)			
8/2/2022				<0.0025		
8/3/2022	<0.0025	0.00041 (J)				
8/4/2022			0.0037			
2/7/2023	<0.0025			<0.0025		
2/8/2023		<0.0025	0.0018 (J)			
8/1/2023	<0.0025		0.002 (J)			
8/2/2023		0.00031 (J)		<0.0025		
2/6/2024		<0.0025				
2/7/2024	<0.0025		0.0034	<0.0025		
8/14/2024	<0.0025	0.00012 (J)	0.0085	<0.0025		
2/4/2025	<0.0025	<0.0025	0.0076	<0.0025		0.0049
2/5/2025					<0.0025	

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Calcium (mg/L) Analysis Run 3/26/2025 12:56 PM

Plant McIntosh Client: Southern Company Data: McIntosh AP-1

	MGWA-5 (bg)	MGWA-6 (bg)	MGWA-6A (bg)	MGWA-10 (bg)	MGWA-11 (bg)	MGWC-1	MGWC-2
5/5/2016	27	105		8.83			
5/6/2016						92.5	131
6/20/2016	29.4			8.1	35.5		
6/21/2016		91.2				119	119
8/15/2016	26	94		6.1	34		
8/16/2016						84	120
9/28/2016	31	110		7.2	38	92	
9/29/2016							140
11/16/2016	26	98		5.2	33	83	120
1/16/2017				3.8			
1/17/2017	29	100			34		
1/18/2017							130
1/19/2017						110	
3/2/2017	28	100		5.4	35	89	120
4/18/2017	27	110		5	33	100	
4/19/2017							120
7/13/2017					30		
10/10/2017	31	110		4.8	39	120	130
6/12/2018	25			4.8	26		
6/13/2018		100				100	120
10/9/2018	29			4.5	29		
10/10/2018		100				100	120
12/5/2018					28		
1/29/2019			95.1				
3/25/2019	27		89	4.6	37		
3/26/2019		100				100	110
9/10/2019	27	110	86	4.9	36	110	110
3/9/2020				4	32		
3/10/2020	29	100	90			120	110
9/16/2020	28	100	93	6.8	30		110
9/17/2020						110	
3/23/2021		110	97	4	42		
3/24/2021	28					100	120
8/23/2021				5.8	34		
8/24/2021	27	100	83				110
8/25/2021						120	
2/22/2022	25	97	90	3.3	36	100	
2/23/2022							100
8/2/2022	26	110	94	3.1	36		
8/3/2022						110	
8/4/2022							98
2/7/2023	26	110	99	3.6	34		
2/8/2023						110	100
8/1/2023	28	110	110	3.9	39	110	
8/2/2023							100
2/6/2024	26	100	100	3.9	40	110	
2/7/2024							110
8/13/2024	28	110	110	4.2	35	120	
8/14/2024							110
2/3/2025	29	110					
2/4/2025			110	3.2	44	120	
2/5/2025							100

Time Series

Constituent: Calcium (mg/L) Analysis Run 3/26/2025 12:56 PM

Plant McIntosh Client: Southern Company Data: McIntosh AP-1

	MGWC-3	MGWC-7	MGWC-8	MGWC-12	MGWC-19	MGWC-20
5/5/2016		45	41.2			
5/6/2016	109					
6/21/2016	99.7	52.8	44.7	25.5		
8/15/2016		50	27			
8/16/2016	97			25		
9/28/2016		58	32			
9/29/2016	100			30		
11/16/2016	94	50	27	26		
1/17/2017	100	52	32			
1/18/2017				32		
3/2/2017	99	52	33	26		
4/18/2017	120	56	59			
4/25/2017				26		
7/13/2017				26		
10/10/2017	110	56	74	28		
6/12/2018				30		
6/13/2018	100	51	84			
10/10/2018	96	51	87	35		
12/5/2018		49				
3/26/2019	99	52	96	33		
9/10/2019	99	53	97	33		
3/10/2020	110	55	100	30		
9/16/2020				25		
9/17/2020	110	48	100			
3/24/2021	120	51	120	32		
8/24/2021	110					
8/25/2021		59	96	31		
2/22/2022				35		
2/23/2022	120	61	97			
8/2/2022				34		
8/3/2022	110	66				
8/4/2022			100			
2/7/2023	110			30		
2/8/2023		65	110			
8/1/2023	120		120			
8/2/2023		57		31		
2/6/2024		56				
2/7/2024	100		120	29		
8/14/2024	110	60	130	28		
12/9/2024					120	47
2/4/2025	110	61	130	36		49
2/5/2025					110	

Time Series

Constituent: Chloride (mg/L) Analysis Run 3/26/2025 12:56 PM

Plant McIntosh Client: Southern Company Data: McIntosh AP-1

	MGWA-5 (bg)	MGWA-6 (bg)	MGWA-6A (bg)	MGWA-10 (bg)	MGWA-11 (bg)	MGWC-1	MGWC-2
5/5/2016	6.51	9.67		7.35			
5/6/2016						13.2	41
6/20/2016	5.9			7	4.3		
6/21/2016		9.2				15	20
8/15/2016	6.4	10		7.5	4.1		
8/16/2016						14	20
9/28/2016	6.1	10		7	3.9	14	
9/29/2016							19
11/16/2016	6.1	10		7.5	4.1	14	20
1/16/2017				7.7			
1/17/2017	5.7	9.4			3.9		
1/18/2017							18
1/19/2017						14	
3/2/2017	5.3	8.6		6.9	3.5	13	18
4/18/2017	5.3	8.9		6.8	3.7	13	
4/19/2017							17
7/13/2017					4.2		
10/10/2017	5.3	8.3		6.9	3.4	14	16
6/12/2018	5.1			6.7	4.6		
6/13/2018		7				13	16
10/9/2018	5.6			7.1	4.5		
10/10/2018		6.9				14	15
12/5/2018					4.1		
1/29/2019			4.51				
3/25/2019	4.7		4.4	6.8	3.4		
3/26/2019		5.8				13	14
9/10/2019	5.1	6	4.2	7	3.5	13	13
3/9/2020				7.4	4.5		
3/10/2020	5.4	5.1	4			14	12
9/16/2020	5.2	4.3	3.7	7	4.6		12
9/17/2020						14	
3/23/2021		4	4.1	7.8	3.8		
3/24/2021	5.5					14	13
8/23/2021				7.3	4.4		
8/24/2021	5.5	4	3.9				13
8/25/2021						14	
2/22/2022	5.1	4	3.3	7.1	3.1	13	
2/23/2022							13
8/2/2022	3.5	2.6	2.8	7.4	3.4		
8/3/2022						13	
8/4/2022							12
2/7/2023	4.7	3.1	3.2	7	4.2		
2/8/2023						12	11
8/1/2023	5.2	3.3	3.4	7.4	3.3	13	
8/2/2023							12
2/6/2024	4.9	3.1	3.2	7.2	3.3	12	
2/7/2024							12
8/13/2024	5.2	3.4	3.5	7.6	4.9	13	
8/14/2024							12
2/3/2025	5.4	3.4					
2/4/2025			3.5	8	3.8	20	
2/5/2025							12

Time Series

Constituent: Chloride (mg/L) Analysis Run 3/26/2025 12:56 PM

Plant McIntosh Client: Southern Company Data: McIntosh AP-1

	MGWC-3	MGWC-7	MGWC-8	MGWC-12	MGWC-19	MGWC-20
5/5/2016		13	10.1			
5/6/2016	12.5					
6/21/2016	13	13	10	4.4		
8/15/2016		14	9.5			
8/16/2016	13			4.6		
9/28/2016		13	9.2			
9/29/2016	13			4.4		
11/16/2016	14	13	9.5	4.5		
1/17/2017	14	13	10			
1/18/2017				4.2		
3/2/2017	13	13	9.3	3.9		
4/18/2017	13	12	10			
4/25/2017				4		
7/13/2017				4		
10/10/2017	14	12	11	4		
6/12/2018				4		
6/13/2018	13	12	11			
10/10/2018	14	12	10	4.2		
12/5/2018		11				
3/26/2019	14	11	11	3.8		
9/10/2019	13	9.9	10	4.1		
3/10/2020	15	10	12	4.1		
9/16/2020				5.1		
9/17/2020	14	9.6	10			
3/24/2021	14	10	18	5.7		
8/24/2021	14					
8/25/2021		9.9	11	4.9		
2/22/2022				4		
2/23/2022	14	9.8	11			
8/2/2022				4.9		
8/3/2022	13	11				
8/4/2022			13			
2/7/2023	11			4.2		
2/8/2023		11	13			
8/1/2023	12		13			
8/2/2023		11		4.5		
2/6/2024		10				
2/7/2024	11		13	4.9		
8/14/2024	11	11	13	5.5		
12/9/2024					16	16
2/4/2025	19	10	11	5.7		14
2/5/2025					13	

Time Series

Constituent: Chromium (mg/L) Analysis Run 3/26/2025 12:56 PM

Plant McIntosh Client: Southern Company Data: McIntosh AP-1

	MGWA-5 (bg)	MGWA-6 (bg)	MGWA-6A (bg)	MGWA-10 (bg)	MGWA-11 (bg)	MGWC-1	MGWC-2
5/5/2016	<0.002	<0.002		0.00249 (J)			
5/6/2016						<0.002	<0.002
6/20/2016	0.00024 (J)			0.0026 (J)	0.00066 (J)		
6/21/2016		<0.002				<0.002	<0.002
8/15/2016	<0.002	<0.002		0.0029	<0.002		
8/16/2016						<0.002	<0.002
9/28/2016	<0.002	<0.002		0.0027	<0.002	<0.002	
9/29/2016							<0.002
11/16/2016	<0.002	<0.002		0.0026	<0.002	<0.002	<0.002
1/16/2017				0.0029			
1/17/2017	<0.002	<0.002			<0.002		
1/18/2017							<0.002
1/19/2017						<0.002	
3/2/2017	0.0032	0.0032		0.0063	0.003	0.0036	0.0033
4/18/2017	<0.002	<0.002		0.0031	<0.002	<0.002	
4/19/2017							<0.002
7/13/2017					<0.002		
3/29/2018	<0.002	<0.002		0.0039	<0.002	<0.002	
3/30/2018							<0.002
6/12/2018	<0.002			0.0038	<0.002		
6/13/2018		<0.002				<0.002	<0.002
10/9/2018	<0.002			0.0037	<0.002		
10/10/2018		<0.002				<0.002	<0.002
1/28/2019				0.00545	<0.002		
1/29/2019	<0.002	<0.002	<0.002			<0.002	<0.002
1/28/2020	<0.002	<0.002	<0.002	0.0044	<0.002		
1/29/2020						<0.002	<0.002
3/9/2020				0.0042	<0.002		
3/10/2020	<0.002	<0.002	<0.002			<0.002	<0.002
9/16/2020	<0.002	<0.002	<0.002	0.0039	<0.002		<0.002
9/17/2020						<0.002	
1/25/2021				0.0044			
1/26/2021	<0.002	<0.002	<0.002		<0.002	0.0023	<0.002
3/23/2021		<0.002	<0.002	0.0043	<0.002		
3/24/2021	<0.002					<0.002	<0.002
8/23/2021				0.0045	<0.002		
8/24/2021	<0.002	<0.002	<0.002				<0.002
8/25/2021						<0.002	
2/22/2022	<0.002	<0.002	<0.002	0.0039	<0.002	<0.002	
2/23/2022							<0.002
8/2/2022	<0.002	<0.002	<0.002	0.003	<0.002		
8/3/2022						<0.002	
8/4/2022							<0.002
2/7/2023	<0.002	<0.002	<0.002	0.0053	<0.002		
2/8/2023						0.0014 (J)	<0.002
8/1/2023	<0.002	<0.002	<0.002	0.0044	<0.002	<0.002	
8/2/2023							<0.002
2/6/2024	<0.002	<0.002	<0.002	0.0066	<0.002	<0.002	
2/7/2024							<0.002
8/13/2024	<0.002	<0.002	<0.002	0.0044	<0.002	<0.002	
8/14/2024							<0.002
2/3/2025	<0.002	<0.002					

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Chromium (mg/L) Analysis Run 3/26/2025 12:56 PM

Plant McIntosh Client: Southern Company Data: McIntosh AP-1

	MGWA-5 (bg)	MGWA-6 (bg)	MGWA-6A (bg)	MGWA-10 (bg)	MGWA-11 (bg)	MGWC-1	MGWC-2
2/4/2025			<0.002	0.0051	0.0014 (J)	0.0015 (J)	
2/5/2025							0.0027

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Chromium (mg/L) Analysis Run 3/26/2025 12:56 PM

Plant McIntosh Client: Southern Company Data: McIntosh AP-1

	MGWC-3	MGWC-7	MGWC-8	MGWC-12	MGWC-19	MGWC-20
5/5/2016		<0.002	<0.002			
5/6/2016	<0.002					
6/21/2016	<0.002	<0.002	<0.002	<0.002		
8/15/2016		<0.002	<0.002			
8/16/2016	<0.002			<0.002		
9/28/2016		<0.002	<0.002			
9/29/2016	<0.002			<0.002		
11/16/2016	<0.002	<0.002	<0.002	<0.002		
1/17/2017	<0.002	<0.002	<0.002			
1/18/2017				<0.002		
3/2/2017	0.003	0.0034	0.0031	0.0032		
4/18/2017	<0.002	<0.002	<0.002			
4/25/2017				<0.002		
7/13/2017				<0.002		
3/29/2018		<0.002		<0.002		
3/30/2018	<0.002		<0.002			
6/12/2018				<0.002		
6/13/2018	<0.002	<0.002	<0.002			
10/10/2018	<0.002	<0.002	<0.002	<0.002		
1/29/2019	<0.002	<0.002	<0.002	<0.002		
1/28/2020		0.0015 (J)		<0.002		
1/29/2020	<0.002		<0.002			
3/10/2020	<0.002	<0.002	<0.002	<0.002		
9/16/2020				0.029		
9/17/2020	<0.002	<0.002	<0.002			
1/26/2021	<0.002	<0.002	<0.002	<0.002		
3/24/2021	<0.002	<0.002	<0.002	<0.002		
8/24/2021	<0.002					
8/25/2021		<0.002	<0.002	<0.002		
2/22/2022				<0.002		
2/23/2022	<0.002	<0.002	<0.002			
8/2/2022				<0.002		
8/3/2022	<0.002	<0.002				
8/4/2022			<0.002			
2/7/2023	<0.002			0.0012 (J)		
2/8/2023		0.0013 (J)	0.0013 (J)			
8/1/2023	<0.002		<0.002			
8/2/2023		<0.002		<0.002		
2/6/2024		<0.002				
2/7/2024	<0.002		<0.002	<0.002		
8/14/2024	<0.002	<0.002	<0.002	<0.002		
2/4/2025	<0.002	<0.002	<0.002	<0.002		<0.002
2/5/2025					<0.002	

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Cobalt (mg/L) Analysis Run 3/26/2025 12:56 PM

Plant McIntosh Client: Southern Company Data: McIntosh AP-1

	MGWA-5 (bg)	MGWA-6 (bg)	MGWA-6A (bg)	MGWA-10 (bg)	MGWA-11 (bg)	MGWC-1	MGWC-2
5/5/2016	<0.0025	<0.0025		<0.0025			
5/6/2016						<0.0025	0.00311 (J)
6/20/2016	1.2E-05 (J)			0.00018 (J)	3.9E-05 (J)		
6/21/2016		0.0003 (J)				0.0012 (J)	0.0031 (J)
8/15/2016	<0.0025	0.00049 (J)		<0.0025	<0.0025		
8/16/2016						0.00047 (J)	0.0034
9/28/2016	<0.0025	0.00043 (J)		<0.0025	<0.0025	0.00058 (J)	
9/29/2016							0.0032
11/16/2016	<0.0025	<0.0025		<0.0025	<0.0025	<0.0025	0.0032
1/16/2017				<0.0025			
1/17/2017	<0.0025	<0.0025			<0.0025		
1/18/2017							0.0032
1/19/2017						0.0004 (J)	
3/2/2017	<0.0025	0.00046 (J)		<0.0025	<0.0025	<0.0025	0.0042
4/18/2017	<0.0025	0.00044 (J)		<0.0025	<0.0025	<0.0025	
4/19/2017							0.0035
7/13/2017					<0.0025		
3/29/2018	<0.0025	0.00065 (J)		<0.0025	<0.0025	<0.0025	
3/30/2018							0.0037
6/12/2018	<0.0025			<0.0025	<0.0025		
6/13/2018		<0.0025				<0.0025	0.0035
10/9/2018	<0.0025			<0.0025	<0.0025		
10/10/2018		0.00051 (J)				<0.0025	0.0034
12/4/2018	<0.0025						
12/5/2018		0.00046 (J)		<0.0025	<0.0025		
12/6/2018						<0.0025	0.0031
1/28/2019				<0.0025	<0.0025		
1/29/2019	<0.0025	<0.0025	<0.0025			<0.0025	0.00293
3/25/2019	<0.0025		<0.0025	<0.0025	<0.0025		
3/26/2019		<0.0025				<0.0025	0.003
9/10/2019	<0.0025	0.00037 (J)	0.0002 (J)	0.00011 (J)	<0.0025	0.00032 (J)	0.0027
1/28/2020	<0.0025	0.00041 (J)	0.00024 (J)	<0.0025	<0.0025		
1/29/2020						0.00027 (J)	0.003
3/9/2020				<0.0025	<0.0025		
3/10/2020	<0.0025	0.00038 (J)	0.00032 (J)			<0.0025	0.0024 (J)
9/16/2020	<0.0025	<0.0025	0.00038 (J)	<0.0025	<0.0025		0.002 (J)
9/17/2020						0.0002 (J)	
1/25/2021				<0.0025			
1/26/2021	<0.0025	0.00027 (J)	0.00035 (J)		<0.0025	0.00031 (J)	0.0021 (J)
3/23/2021		0.00025 (J)	0.00036 (J)	0.00014 (J)	<0.0025		
3/24/2021	<0.0025					<0.0025	0.0019 (J)
8/23/2021				<0.0025	<0.0025		
8/24/2021	<0.0025	<0.0025	0.0017 (J)				0.0018 (J)
8/25/2021						0.00018 (J)	
2/22/2022	<0.0025	<0.0025	0.00049 (J)	<0.0025	<0.0025	<0.0025	
2/23/2022							0.0016 (J)
8/2/2022	0.012 (O)	0.0003 (J)	0.00034 (J)	<0.0025	<0.0025		
8/3/2022						<0.0025	
8/4/2022							0.0013 (J)
2/7/2023	<0.0025	0.00023 (J)	0.00069 (J)	<0.0025	<0.0025		
2/8/2023						<0.0025	0.0012 (J)
8/1/2023	<0.0025	<0.0025	0.00045 (J)	<0.0025	<0.0025	<0.0025	

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Cobalt (mg/L) Analysis Run 3/26/2025 12:56 PM

Plant McIntosh Client: Southern Company Data: McIntosh AP-1

	MGWA-5 (bg)	MGWA-6 (bg)	MGWA-6A (bg)	MGWA-10 (bg)	MGWA-11 (bg)	MGWC-1	MGWC-2
8/2/2023							0.0011 (J)
2/6/2024	<0.0025	<0.0025	0.00069 (J)	<0.0025	<0.0025	0.00024 (J)	
2/7/2024							0.00099 (J)
8/13/2024	<0.0025	0.00051 (J)	0.00035 (J)	<0.0025	<0.0025	<0.0025	
8/14/2024							0.0008 (J)
2/3/2025	<0.0025	<0.0025					
2/4/2025			0.00075 (J)	<0.0025	<0.0025	<0.0025	
2/5/2025							0.00085 (J)

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Cobalt (mg/L) Analysis Run 3/26/2025 12:56 PM

Plant McIntosh Client: Southern Company Data: McIntosh AP-1

	MGWC-3	MGWC-7	MGWC-8	MGWC-12	MGWC-19	MGWC-20
5/5/2016		0.0036 (J)	0.00359 (J)			
5/6/2016	<0.0025					
6/21/2016	0.0006 (J)	0.0097 (J)	0.0033 (J)	<0.0025		
8/15/2016		0.0098	0.0038			
8/16/2016	0.00064 (J)			<0.0025		
9/28/2016		0.0095	0.0043			
9/29/2016	0.00054 (J)			<0.0025		
11/16/2016	0.00041 (J)	0.0094	0.004	<0.0025		
1/17/2017	0.00051 (J)	0.0099	0.0051			
1/18/2017				<0.0025		
3/2/2017	0.00064 (J)	0.013	0.0064	<0.0025		
4/18/2017	0.00057 (J)	0.0086	0.005			
4/25/2017				<0.0025		
7/13/2017				<0.0025		
3/29/2018		0.0088		<0.0025		
3/30/2018	0.00068 (J)		0.015			
6/12/2018				<0.0025		
6/13/2018	0.00048 (J)	0.0093	0.014			
10/10/2018	0.00063 (J)	0.0125 (D)	0.018	<0.0025		
12/5/2018		0.012	0.02	<0.0025	<0.0025	
12/6/2018	0.00058 (J)					<0.0025
1/29/2019	<0.0025	0.0103	0.0159	<0.0025		
3/26/2019	<0.0025	0.009	0.02	<0.0025		
9/10/2019	0.00065	0.011	0.019	0.00016 (J)		
1/28/2020		0.008		<0.0025		
1/29/2020	0.00067		0.025			
3/10/2020	0.0005 (J)	0.0081	0.017	<0.0025		
9/16/2020				0.0015 (J)		
9/17/2020	0.00053 (J)	0.0098	0.024			
1/26/2021	0.0013 (J)	0.009	0.021	<0.0025		
3/24/2021	0.00053 (J)	0.0063	0.002 (J)	<0.0025		
8/24/2021	0.00034 (J)					
8/25/2021		0.0032	0.021	<0.0025		
2/22/2022				<0.0025		
2/23/2022	0.0012 (J)	0.007	0.015			0.00055 (J)
8/2/2022				<0.0025		
8/3/2022	0.00051 (J)	0.0044				
8/4/2022			0.0092			0.00025 (J)
2/7/2023	0.0025			<0.0025		
2/8/2023		0.0044	0.0019 (J)			
8/1/2023	0.00054 (J)		0.0015 (J)			
8/2/2023		0.0031		<0.0025		
2/6/2024		0.0037				
2/7/2024	0.00065 (J)		0.0005 (J)	<0.0025		
8/14/2024	0.00038 (J)	0.0013 (J)	0.00056 (J)	<0.0025		
2/4/2025	0.00043 (J)	0.0029	0.00042 (J)	<0.0025		0.00056 (J)
2/5/2025					<0.0025	

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Combined Radium 226 + 228 (pCi/L) Analysis Run 3/26/2025 12:56 PM

Plant McIntosh Client: Southern Company Data: McIntosh AP-1

	MGWA-5 (bg)	MGWA-6 (bg)	MGWA-6A (bg)	MGWA-10 (bg)	MGWA-11 (bg)	MGWC-1	MGWC-2
5/5/2016	0.48	0.694		0.879			
5/6/2016						1.07	0.633
6/20/2016	0.184			0.305 (U)	0.556 (U)		
6/21/2016		0.511				2.01	1.19
8/15/2016	0.577	0.467		0.577	0.72		
8/16/2016						1.12	0.516
9/28/2016	0.107 (U)	0.926		0.77	0.521 (U)	1.09	
9/29/2016							0.665
11/16/2016	0.333 (U)	0.863		0.427 (U)	0.322 (U)	1.58	0.694
1/16/2017				1.1			
1/17/2017	0.511 (U)	0.82			1.26		
1/18/2017							0.688
1/19/2017						1.64	
3/2/2017	0.105 (U)	0.236 (U)		1.01	0.47	1.08	0.484
4/18/2017	0.279 (U)	0.316 (U)		0.635	0.233 (U)	1.23	
4/19/2017							0.599
7/13/2017					0.679		
3/29/2018	0.37	0.6		0.799	0.723	1.21	
3/30/2018							0.677
6/12/2018	0.133 (U)			0.313 (U)	0.105 (U)		
6/13/2018		0.349 (U)				1.09	0.272 (U)
10/9/2018	0.85			1.11	0.65		
10/10/2018		1.01				1.95	0.336
1/28/2019				0.872	0.478		
1/29/2019	0.275 (U)	0.591	0.874			1.11	0.719
3/25/2019	0.629		0.646	0.526	0.717		
3/26/2019		0.4				1	0.41 (U)
9/10/2019	0.354 (U)	0.481	0.988	0.612	0.377 (U)	1.26	0.548
1/28/2020	0.0677 (U)	0.374 (U)	0.0609 (U)	0.322 (U)	0.528		
1/29/2020						1.39	0.0985 (U)
3/9/2020				0.761	0.00483		
3/10/2020	0.0594 (U)	0.41 (U)	0.528			1.4	0.589
9/16/2020	0.821	-0.0651 (U)	1.13	0.969	0.583		1.11
9/17/2020						1.79	
12/7/2020		0.979					
12/8/2020						1.87	
1/25/2021				0.408 (U)			
1/26/2021	0.0432 (U)	0.663	0.591		0.898	2.37	0.234 (U)
3/23/2021		0.542	0.612	0.657	0.409 (U)		
3/24/2021	0.206 (U)					1.81	0.625
8/23/2021				0.752	1.19		
8/24/2021	0.521 (U)	0.678	0.596				0.313 (U)
8/25/2021						2.12	
2/22/2022	0.511	0.594	0.728	1.06	0.837	1.85	
2/23/2022							0.598
8/2/2022	0.35 (U)	0.683	0.42 (U)	0.239 (U)	0.967		
8/3/2022						2.2	
8/4/2022							0.632
2/7/2023	0.0887 (U)	0.487 (U)	0.701	0.671	0.858		
2/8/2023						1.77	0.799
8/1/2023	0.982	1.27	1.44	0.546 (U)	1.87	1.61	
8/2/2023							1.09

Time Series

Constituent: Combined Radium 226 + 228 (pCi/L) Analysis Run 3/26/2025 12:56 PM

Plant McIntosh Client: Southern Company Data: McIntosh AP-1

	MGWA-5 (bg)	MGWA-6 (bg)	MGWA-6A (bg)	MGWA-10 (bg)	MGWA-11 (bg)	MGWC-1	MGWC-2
2/6/2024	0.424 (U)	0.78	0.667 (U)	0.899	0.518	1.99	
2/7/2024							1.1
8/13/2024	0.441 (U)	0.709	0.888	1.11	1.09	2.14	
8/14/2024							-0.123 (U)
2/3/2025	0.0354 (U)	0.957					
2/4/2025			1.36	0.905	0.732	2.5	
2/5/2025							0.328 (U)

Time Series

Constituent: Combined Radium 226 + 228 (pCi/L) Analysis Run 3/26/2025 12:56 PM

Plant McIntosh Client: Southern Company Data: McIntosh AP-1

	MGWC-3	MGWC-7	MGWC-8	MGWC-12	MGWC-19	MGWC-20
5/5/2016		0.75	1.21			
5/6/2016	1.41					
6/21/2016	1.71	1.01	0.895	0.292		
8/15/2016		1.3	1.64			
8/16/2016	1.75			0.232 (U)		
9/28/2016		1.06	2.17			
9/29/2016	1.43			1.11		
11/16/2016	1.9	0.855	1.49	0.798		
1/17/2017	1.9	1.59	1.75			
1/18/2017				0.302 (U)		
3/2/2017	1.37	1.4	1.03	0.437		
4/18/2017	1.42	0.684	1.83			
4/25/2017				0.391		
7/13/2017				0.47		
3/29/2018		0.822		0.736		
3/30/2018	1.43		2.15			
6/12/2018				0.438		
6/13/2018	1.27	0.716	1.51			
10/10/2018	1.54	1.51	2.72	0.371		
1/29/2019	1.34	1.7	1.93	0.639		
3/26/2019	1.25	0.784	1.79	0.607		
9/10/2019	1.6	0.958	1.78	0.939		
1/28/2020		1.38		0.465		
1/29/2020	1.44		1.61			
3/10/2020	1.32	0.903	1.95	0.34 (U)		
9/16/2020				1.09		
9/17/2020	0.666 (U)	1.28	1.56			
12/8/2020	1.65					
1/26/2021	1.78	0.607	1.87	0.364 (U)		
3/24/2021	1.58	1.2	0.636	0.434 (U)		
8/24/2021	1.65					
8/25/2021		0.767	2.13	0.563		
2/22/2022				0.888		
2/23/2022	1.47	1.42	2.62			
8/2/2022				1.08		
8/3/2022	2.56	1.11				
8/4/2022			1.24			
2/7/2023	2.14			0.849		
2/8/2023		1.88	1.11			
8/1/2023	2.07		0.872			
8/2/2023		1.46		0.432 (U)		
2/6/2024		1.52				
2/7/2024	1.8		0.929	0.706		
8/14/2024	1.14	1.08	0.642 (U)	0.231 (U)		
2/4/2025	1.63	1.46	1.46	-0.0104 (U)		0.324 (U)
2/5/2025					0.859	

Time Series

Constituent: Fluoride (mg/L) Analysis Run 3/26/2025 12:56 PM

Plant McIntosh Client: Southern Company Data: McIntosh AP-1

	MGWA-5 (bg)	MGWA-6 (bg)	MGWA-6A (bg)	MGWA-10 (bg)	MGWA-11 (bg)	MGWC-1	MGWC-2
5/5/2016	0.132 (J)	0.091 (J)		0.046 (J)			
5/6/2016						0.28 (J)	0.088 (J)
6/20/2016	0.05 (J)			<0.1	0.06 (J)		
6/21/2016		0.08 (J)				0.36	0.19 (J)
8/15/2016	0.1 (J)	<0.1		<0.1	0.1 (J)		
8/16/2016						0.27	0.087 (J)
9/28/2016	0.11 (J)	0.084 (J)		<0.1	0.097 (J)	0.26	
9/29/2016							<1
11/16/2016	0.093 (J)	0.084 (J)		<0.1	0.12 (J)	0.24	<1
1/16/2017				<0.1			
1/17/2017	0.095 (J)	0.099 (J)			0.11 (J)		
1/18/2017							<1
1/19/2017						0.22	
3/2/2017	0.16 (J)	0.15 (J)		0.12 (J)	0.18 (J)	0.27	0.15 (J)
4/18/2017	<0.1	<0.1		<0.1	0.11 (J)	0.2	
4/19/2017							<1
7/13/2017					0.12 (J)		
10/10/2017	<0.1	<0.1		<0.1	0.086 (J)	0.18 (J)	<1
3/29/2018	0.084 (J)	<0.1		<0.1	<0.1	0.16 (J)	
3/30/2018							<1
6/12/2018	<0.1			<0.1	0.16 (J)		
6/13/2018		<0.1				0.14 (J)	<1
10/9/2018	0.086 (J)			<0.1	0.16 (J)		
10/10/2018		<0.1				0.17 (J)	0.085 (J)
1/29/2019			<0.1				
3/25/2019	0.072 (J)		0.067 (J)	<0.1	0.087 (J)		
3/26/2019		0.065 (J)				0.16 (J)	0.076 (J)
9/10/2019	0.068 (J)	0.076 (J)	0.052 (J)	0.044 (J)	0.075 (J)	0.098 (J)	0.07 (J)
3/9/2020				0.061 (J)	0.19		
3/10/2020	0.055 (J)	0.045 (J)	0.048 (J)			0.086 (J)	0.05 (J)
9/16/2020	0.08 (J)	0.076 (J)	0.078 (J)	0.042 (J)	0.18		0.076 (J)
9/17/2020						0.15	
1/25/2021				<0.1			
1/26/2021	0.087 (J)	0.072 (J)	0.071 (J)		0.073 (J)	0.15	0.068 (J)
3/23/2021		0.082 (J)	0.096 (J)	0.038 (J)	0.081 (J)		
3/24/2021	0.091 (J)					0.27	0.11
8/23/2021				0.048 (J)	0.12		
8/24/2021	0.1	0.1	0.11				0.095 (J)
8/25/2021						0.097 (J)	
2/22/2022	<0.1	0.034 (J)	<0.1	<0.1	<0.1	0.047 (J)	
2/23/2022							0.075 (J)
8/2/2022	0.066 (J)	0.055 (J)	0.052 (J)	<0.1	0.065 (J)		
8/3/2022						0.12	
8/4/2022							0.072 (J)
2/7/2023	0.069 (J)	0.06 (J)	0.064 (J)	<0.1	0.07 (J)		
2/8/2023						0.11	0.074 (J)
8/1/2023	0.094 (J)	0.084 (J)	0.081 (J)	<0.1	0.094 (J)	0.15	
8/2/2023							0.087 (J)
2/6/2024	0.079 (J)	0.069 (J)	0.074 (J)	<0.1	0.071 (J)	0.12	
2/7/2024							0.081 (J)
8/13/2024	<0.1	<0.1	<0.1	<0.1	<0.1	<0.5	
8/14/2024							<1

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Fluoride (mg/L) Analysis Run 3/26/2025 12:56 PM

Plant McIntosh Client: Southern Company Data: McIntosh AP-1

	MGWA-5 (bg)	MGWA-6 (bg)	MGWA-6A (bg)	MGWA-10 (bg)	MGWA-11 (bg)	MGWC-1	MGWC-2
2/3/2025	<0.1	<0.1					
2/4/2025			<0.1	<0.1	<0.1	<0.5	
2/5/2025							<1

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Fluoride (mg/L) Analysis Run 3/26/2025 12:56 PM

Plant McIntosh Client: Southern Company Data: McIntosh AP-1

	MGWC-3	MGWC-7	MGWC-8	MGWC-12	MGWC-19	MGWC-20
5/5/2016		0.394	0.103 (J)			
5/6/2016	0.086 (J)					
6/21/2016	0.23 (J)	0.49	0.1 (J)	0.14 (J)		
8/15/2016		0.44	0.11 (J)			
8/16/2016	<0.5			0.29		
9/28/2016		0.4	0.1 (J)			
9/29/2016	0.082 (J)			0.26		
11/16/2016	0.087 (J)	0.36	0.091 (J)	0.25		
1/17/2017	0.086 (J)	0.2	<1			
1/18/2017				0.26		
3/2/2017	0.15 (J)	0.36	0.16 (J)	0.28		
4/18/2017	<0.5	0.29	<1			
4/25/2017				0.25		
7/13/2017				0.21		
10/10/2017	<0.5	0.28	<1	0.22		
3/29/2018		0.23		0.23		
3/30/2018	<0.5		0.088 (J)			
6/12/2018				0.23		
6/13/2018	<0.5	0.2	0.15 (J)			
10/10/2018	<0.5	0.23	0.11 (J)	0.25		
3/26/2019	0.072 (J)	0.19 (J)	0.088 (J)	0.22		
9/10/2019	0.073 (J)	0.15	0.083 (J)	0.2		
3/10/2020	0.058 (J)	0.18	0.084 (J)	0.15		
9/16/2020				0.26		
9/17/2020	0.083 (J)	0.25	0.11			
1/26/2021	0.083 (J)	0.28	0.14	0.23		
3/24/2021	0.092 (J)	0.35	0.11	0.27		
8/24/2021	0.11					
8/25/2021		0.15	0.038 (J)	0.19		
2/22/2022				0.093 (J)		
2/23/2022	0.086 (J)	0.22	0.05 (J)			
8/2/2022				0.074 (J)		
8/3/2022	0.079 (J)	0.2				
8/4/2022			0.087 (J)			
2/7/2023	0.076 (J)			0.25		
2/8/2023		0.14	0.084 (J)			
8/1/2023	0.1		0.11			
8/2/2023		0.2		0.25		
2/6/2024		0.17				
2/7/2024	0.089 (J)		0.063 (J)	0.29		
8/14/2024	<0.5	<1	<1	0.12		
12/9/2024					<1	<0.5
2/4/2025	<0.5	<1	<1	0.043 (J)		<0.5
2/5/2025					<1	

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Lead (mg/L) Analysis Run 3/26/2025 12:56 PM

Plant McIntosh Client: Southern Company Data: McIntosh AP-1

	MGWA-5 (bg)	MGWA-6 (bg)	MGWA-6A (bg)	MGWA-10 (bg)	MGWA-11 (bg)	MGWC-1	MGWC-2
5/5/2016	<0.001	<0.001		<0.001			
5/6/2016						<0.001	<0.001
6/20/2016	<0.001			<0.001	8.7E-05 (J)		
6/21/2016		<0.001				<0.001	<0.001
8/15/2016	<0.001	<0.001		<0.001	<0.001		
8/16/2016						<0.001	<0.001
9/28/2016	<0.001	<0.001		<0.001	<0.001	<0.001	
9/29/2016							<0.001
11/16/2016	<0.001	<0.001		<0.001	<0.001	<0.001	<0.001
1/16/2017				<0.001			
1/17/2017	<0.001	<0.001			<0.001		
1/18/2017							<0.001
1/19/2017						<0.001	
3/2/2017	<0.001	<0.001		<0.001	<0.001	<0.001	<0.001
4/18/2017	<0.001	<0.001		<0.001	<0.001	<0.001	
4/19/2017							<0.001
7/13/2017					<0.001		
3/29/2018	<0.001	<0.001		<0.001	<0.001	<0.001	
3/30/2018							<0.001
1/28/2019				<0.001	<0.001		
1/29/2019	<0.001	<0.001	<0.001			<0.001	<0.001
1/28/2020	0.00018 (J)	<0.001	<0.001	<0.001	0.00016 (J)		
1/29/2020						<0.001	<0.001
3/9/2020				<0.001	<0.001		
3/10/2020	<0.001	<0.001	<0.001			<0.001	<0.001
9/16/2020	<0.001	<0.001	<0.001	<0.001	<0.001		<0.001
9/17/2020						<0.001	
1/25/2021				0.00016 (J)			
1/26/2021	<0.001	0.00013 (J)	<0.001		<0.001	0.00058 (J)	0.00014 (J)
3/23/2021		<0.001	<0.001	0.00013 (J)	0.00013 (J)		
3/24/2021	<0.001					<0.001	<0.001
8/23/2021				<0.001	<0.001		
8/24/2021	<0.001	<0.001	<0.001				<0.001
8/25/2021						<0.001	
2/22/2022	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	
2/23/2022							<0.001
8/2/2022	<0.001	<0.001	<0.001	<0.001	<0.001		
8/3/2022						<0.001	
8/4/2022							<0.001
2/7/2023	<0.001	<0.001	<0.001	<0.001	<0.001		
2/8/2023						<0.001	<0.001
8/1/2023	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	
8/2/2023							<0.001
2/6/2024	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	
2/7/2024							0.00027 (J)
8/13/2024	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	
8/14/2024							<0.001
2/3/2025	<0.001	<0.001					
2/4/2025			<0.001	<0.001	<0.001	<0.001	
2/5/2025							<0.001

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Lead (mg/L) Analysis Run 3/26/2025 12:56 PM

Plant McIntosh Client: Southern Company Data: McIntosh AP-1

	MGWC-3	MGWC-7	MGWC-8	MGWC-12	MGWC-19	MGWC-20
5/5/2016		<0.001	<0.001			
5/6/2016	<0.001					
6/21/2016	<0.001	0.0003 (J)	<0.001	0.0001 (J)		
8/15/2016		<0.001	<0.001			
8/16/2016	<0.001			<0.001		
9/28/2016		<0.001	<0.001			
9/29/2016	<0.001			<0.001		
11/16/2016	<0.001	<0.001	<0.001	<0.001		
1/17/2017	<0.001	<0.001	<0.001			
1/18/2017				<0.001		
3/2/2017	<0.001	<0.001	<0.001	<0.001		
4/18/2017	<0.001	<0.001	<0.001			
4/25/2017				<0.001		
7/13/2017				<0.001		
3/29/2018		<0.001		<0.001		
3/30/2018	<0.001		<0.001			
1/29/2019	<0.001	<0.001	<0.001	<0.001		
1/28/2020		<0.001		<0.001		
1/29/2020	<0.001		<0.001			
3/10/2020	<0.001	<0.001	<0.001	<0.001		
9/16/2020				<0.001		
9/17/2020	<0.001	<0.001	<0.001			
1/26/2021	0.00017 (J)	<0.001	0.00019 (J)	<0.001		
3/24/2021	<0.001	<0.001	<0.001	<0.001		
8/24/2021	<0.001					
8/25/2021		0.00019 (J)	0.00022 (J)	<0.001		
2/22/2022				<0.001		
2/23/2022	<0.001	<0.001	<0.001			
8/2/2022				<0.001		
8/3/2022	<0.001	0.00021 (J)				
8/4/2022			<0.001			
2/7/2023	<0.001			<0.001		
2/8/2023		<0.001	<0.001			
8/1/2023	<0.001		<0.001			
8/2/2023		<0.001		<0.001		
2/6/2024		<0.001				
2/7/2024	<0.001		<0.001	<0.001		
8/14/2024	<0.001	<0.001	<0.001	<0.001		
2/4/2025	0.00034 (J)	<0.001	<0.001	<0.001		<0.001
2/5/2025					<0.001	

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Lithium (mg/L) Analysis Run 3/26/2025 12:56 PM

Plant McIntosh Client: Southern Company Data: McIntosh AP-1

	MGWA-5 (bg)	MGWA-6 (bg)	MGWA-6A (bg)	MGWA-10 (bg)	MGWA-11 (bg)	MGWC-1	MGWC-2
5/5/2016	<0.05	<0.005		<0.05			
5/6/2016						0.0128 (J)	<0.05
6/20/2016	0.0065 (J)			0.0071 (J)	0.014 (J)		
6/21/2016		<0.005				0.0102 (J)	0.0047 (J)
8/15/2016	0.0059	<0.005		0.0065	0.02		
8/16/2016						0.012	0.0043 (J)
9/28/2016	0.0075	<0.005		0.0075	0.019	0.012	
9/29/2016							0.0048 (J)
11/16/2016	0.0094	<0.005		0.0081	0.021	0.013	0.0058
1/16/2017				0.0076			
1/17/2017	0.01	<0.005			0.02		
1/18/2017							0.0051
1/19/2017						0.011	
3/2/2017	0.0076	<0.005		0.0073	0.019	0.013	0.0061
4/18/2017	0.008	<0.005		0.006	0.016	0.0097	
4/19/2017							0.0042 (J)
7/13/2017					0.011		
3/29/2018	0.014	0.0013 (J)		0.01	0.03	0.017	
3/30/2018							0.008
6/12/2018	0.0095			0.0068	0.012		
6/13/2018		<0.005				0.0094	0.0054
10/9/2018	0.011			0.0082	0.015		
10/10/2018		<0.005				0.011	0.0055
12/4/2018	0.011						
12/5/2018		0.0012 (J)		0.0089	0.017		
12/6/2018						0.01	0.0066
1/28/2019				0.00821	0.0124		
1/29/2019	0.00987	<0.005	0.0184			0.0109	0.00537
3/25/2019	0.01		0.0052	0.0068	0.026		
3/26/2019		<0.005				0.01	0.0051
9/10/2019	0.011	0.0051	0.0062	0.011	0.026	0.012	0.0074
1/28/2020	0.0093	<0.005	<0.005	0.0064	0.026		
1/29/2020						0.0096	0.0059
3/9/2020				0.0088	0.017		
3/10/2020	0.011	<0.005	<0.005			<0.025	0.0068
9/16/2020	0.0094	<0.005	<0.005	0.0079	0.014		0.0055
9/17/2020						0.0086	
1/25/2021				0.0083			
1/26/2021	0.011	<0.005	<0.005		0.027	0.011	0.0066
3/23/2021		<0.005	<0.005	0.0084	0.026		
3/24/2021	0.0097					0.013	0.0066
8/23/2021				0.0075	0.018		
8/24/2021	0.0093	<0.005	<0.005				0.0062
8/25/2021						0.0096	
2/22/2022	0.011	<0.005	0.0012 (J)	0.0079	0.027	0.01	
2/23/2022							0.0066
8/2/2022	0.0097	<0.005	<0.005	0.0071	0.025		
8/3/2022						0.01	
8/4/2022							0.0063
2/7/2023	0.011	<0.005	<0.005	0.0081	0.022		
2/8/2023						0.01	0.0065
8/1/2023	0.0077	<0.005	<0.005	0.0053	0.024	0.0084	

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Lithium (mg/L) Analysis Run 3/26/2025 12:56 PM

Plant McIntosh Client: Southern Company Data: McIntosh AP-1

	MGWA-5 (bg)	MGWA-6 (bg)	MGWA-6A (bg)	MGWA-10 (bg)	MGWA-11 (bg)	MGWC-1	MGWC-2
8/2/2023							0.0031 (J)
2/6/2024	0.0058	0.006	<0.005	0.0083	0.037	0.0084	
2/7/2024							0.0051
8/13/2024	0.01	<0.005	0.0022 (J)	0.0079	0.019	0.011	
8/14/2024							0.0065
2/3/2025	0.014	0.0057					
2/4/2025			0.0034 (J)	0.013	0.033	0.016	
2/5/2025							0.0087

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Lithium (mg/L) Analysis Run 3/26/2025 12:56 PM

Plant McIntosh Client: Southern Company Data: McIntosh AP-1

	MGWC-3	MGWC-7	MGWC-8	MGWC-12	MGWC-19	MGWC-20
5/5/2016		0.0586	0.0252 (J)			
5/6/2016	0.0113 (J)					
6/21/2016	0.0103 (J)	0.122	0.0228 (J)	0.0112 (J)		
8/15/2016		0.12	0.026			
8/16/2016	0.01			0.014		
9/28/2016		0.12	0.026			
9/29/2016	0.01			0.017		
11/16/2016	0.014	0.13	0.031	0.016		
1/17/2017	0.014	0.14	0.032			
1/18/2017				0.015		
3/2/2017	0.013	0.13	0.031	0.015		
4/18/2017	0.01	0.11	0.023			
4/25/2017				0.013		
7/13/2017				0.014		
3/29/2018		0.17		0.032		
3/30/2018	0.017		0.058			
6/12/2018				0.019		
6/13/2018	0.011	0.12	0.035			
10/10/2018	0.013	0.13	0.046	0.027		
12/5/2018		0.14	0.043	0.026	0.0029 (J)	
12/6/2018	0.015					0.0053
1/29/2019	0.0106	0.112	0.0361	0.0172		
3/26/2019	0.012	0.12	0.043	0.02		
9/10/2019	0.015	0.11	0.042	0.023		
1/28/2020		0.13		0.022		
1/29/2020	0.012		0.037			
3/10/2020	0.014	0.11	0.028	0.018		
9/16/2020				0.025		
9/17/2020	0.012	0.11	0.039			
1/26/2021	0.014	0.12	0.032	0.021		
3/24/2021	0.013	0.13	0.011	0.018		
8/24/2021	0.012					
8/25/2021		0.12	0.037	0.017		
2/22/2022				0.022		
2/23/2022	0.013	0.13	0.028			0.0066
8/2/2022				0.026		
8/3/2022	0.013	0.13				
8/4/2022			0.021			0.011
2/7/2023	0.014			0.024		
2/8/2023		0.14	0.012			
8/1/2023	0.011		0.012			
8/2/2023		0.13		0.019		
2/6/2024		0.12				
2/7/2024	0.0081		0.0076	0.03		
8/14/2024	0.012	0.15	0.007	0.022		
12/9/2024					0.0051	0.0029 (J)
2/4/2025	0.017	0.16	0.012	0.031		0.01
2/5/2025					0.0045 (J)	

Time Series

Constituent: Mercury (mg/L) Analysis Run 3/26/2025 12:56 PM

Plant McIntosh Client: Southern Company Data: McIntosh AP-1

	MGWA-5 (bg)	MGWA-6 (bg)	MGWA-6A (bg)	MGWA-10 (bg)	MGWA-11 (bg)	MGWC-1	MGWC-2
5/5/2016	<0.0002	<0.0002		<0.0002			
5/6/2016						<0.0002	<0.0002
6/20/2016	<0.0002			<0.0002	<0.0002		
6/21/2016		<0.0002				<0.0002	<0.0002
8/15/2016	<0.0002	<0.0002		<0.0002	8E-05 (J)		
8/16/2016						<0.0002	7.8E-05 (J)
9/28/2016	<0.0002	<0.0002		<0.0002	<0.0002	<0.0002	
9/29/2016							<0.0002
11/16/2016	<0.0002	<0.0002		<0.0002	<0.0002	<0.0002	0.0001 (J)
1/16/2017				<0.0002			
1/17/2017	<0.0002	<0.0002			<0.0002		
1/18/2017							<0.0002
1/19/2017						<0.0002	
3/2/2017	<0.0002	<0.0002		<0.0002	<0.0002	<0.0002	<0.0002
4/18/2017	<0.0002	<0.0002		<0.0002	<0.0002	<0.0002	
4/19/2017							<0.0002
7/13/2017					<0.0002		
3/29/2018	<0.0002	7.4E-05 (J)		<0.0002	8.6E-05 (J)	<0.0002	
3/30/2018							<0.0002
6/12/2018	<0.0002			<0.0002	<0.0002		
6/13/2018		<0.0002				<0.0002	<0.0002
10/9/2018	<0.0002			<0.0002	<0.0002		
10/10/2018		<0.0002				<0.0002	<0.0002
1/28/2019				<0.0002	<0.0002		
1/29/2019	<0.0002	<0.0002	<0.0002			<0.0002	<0.0002
1/28/2020	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002		
1/29/2020						<0.0002	<0.0002
3/9/2020				<0.0002	<0.0002		
3/10/2020	<0.0002	<0.0002	<0.0002			<0.0002	<0.0002
9/16/2020	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002		<0.0002
9/17/2020						<0.0002	
1/25/2021				<0.0002			
1/26/2021	<0.0002	<0.0002	<0.0002		<0.0002	<0.0002	<0.0002
3/23/2021		<0.0002	<0.0002	<0.0002	<0.0002		
3/24/2021	<0.0002					<0.0002	<0.0002
8/23/2021				<0.0002	<0.0002		
8/24/2021	<0.0002	<0.0002	<0.0002				<0.0002
8/25/2021						<0.0002	
2/22/2022	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	
2/23/2022							<0.0002
8/2/2022	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002		
8/3/2022						<0.0002	
8/4/2022							<0.0002
2/7/2023	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002		
2/8/2023						<0.0002	<0.0002
8/1/2023	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	
8/2/2023							<0.0002
2/6/2024	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	
2/7/2024							<0.0002
8/13/2024	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	
8/14/2024							<0.0002
2/3/2025	<0.0002	<0.0002					

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Mercury (mg/L) Analysis Run 3/26/2025 12:56 PM

Plant McIntosh Client: Southern Company Data: McIntosh AP-1

	MGWA-5 (bg)	MGWA-6 (bg)	MGWA-6A (bg)	MGWA-10 (bg)	MGWA-11 (bg)	MGWC-1	MGWC-2
2/4/2025			<0.0002	<0.0002	<0.0002	<0.0002	
2/5/2025							<0.0002

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Mercury (mg/L) Analysis Run 3/26/2025 12:56 PM

Plant McIntosh Client: Southern Company Data: McIntosh AP-1

	MGWC-3	MGWC-7	MGWC-8	MGWC-12	MGWC-19	MGWC-20
5/5/2016		<0.0002	<0.0002			
5/6/2016	<0.0002					
6/21/2016	<0.0002	<0.0002	<0.0002	<0.0002		
8/15/2016		<0.0002	0.00015 (J)			
8/16/2016	<0.0002			<0.0002		
9/28/2016		<0.0002	<0.0002			
9/29/2016	<0.0002			<0.0002		
11/16/2016	7E-05 (J)	8E-05 (J)	0.00021	8.6E-05 (J)		
1/17/2017	<0.0002	<0.0002	7.6E-05 (J)			
1/18/2017				<0.0002		
3/2/2017	<0.0002	<0.0002	<0.0002	<0.0002		
4/18/2017	<0.0002	<0.0002	0.00018 (J)			
4/25/2017				<0.0002		
7/13/2017				<0.0002		
3/29/2018		<0.0002		7.4E-05 (J)		
3/30/2018	<0.0002		0.00013 (J)			
6/12/2018				<0.0002		
6/13/2018	<0.0002	<0.0002	0.00074			
10/10/2018	<0.0002	<0.0002	0.00013 (J)	<0.0002		
1/29/2019	<0.0002	<0.0002	<0.0002	<0.0002		
1/28/2020		<0.0002		<0.0002		
1/29/2020	<0.0002		0.00012 (J)			
3/10/2020	<0.0002	<0.0002	<0.0002	<0.0002		
9/16/2020				<0.0002		
9/17/2020	<0.0002	<0.0002	0.00014 (J)			
1/26/2021	<0.0002	<0.0002	0.0025	<0.0002		
3/24/2021	<0.0002	<0.0002	<0.0002	<0.0002		
8/24/2021	<0.0002					
8/25/2021		<0.0002	0.0041	<0.0002		
10/26/2021			<0.0002			
2/22/2022				<0.0002		
2/23/2022	<0.0002	<0.0002	0.00028			
8/2/2022				<0.0002		
8/3/2022	<0.0002	<0.0002				
8/4/2022			0.00068			
2/7/2023	<0.0002			<0.0002		
2/8/2023		<0.0002	0.00026			
8/1/2023	<0.0002		0.00014 (J)			
8/2/2023		<0.0002		<0.0002		
2/6/2024		<0.0002				
2/7/2024	<0.0002		0.00052	<0.0002		
8/14/2024	<0.0002	<0.0002	0.00051	<0.0002		
2/4/2025	<0.0002	<0.0002	0.00084	<0.0002		<0.0002
2/5/2025					<0.0002	

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Molybdenum (mg/L) Analysis Run 3/26/2025 12:56 PM

Plant McIntosh Client: Southern Company Data: McIntosh AP-1

	MGWA-5 (bg)	MGWA-6 (bg)	MGWA-6A (bg)	MGWA-10 (bg)	MGWA-11 (bg)	MGWC-1	MGWC-2
5/5/2016	0.0026 (J)	<0.015		<0.015			
5/6/2016						0.0021 (J)	<0.015
6/20/2016	0.0014 (J)			0.00031 (J)	0.0052 (J)		
6/21/2016		<0.015				0.002 (J)	<0.015
8/15/2016	0.0013 (J)	<0.015		<0.015	0.0022 (J)		
8/16/2016						0.0019 (J)	<0.015
9/28/2016	0.0012 (J)	<0.015		<0.015	0.0018 (J)	0.0018 (J)	
9/29/2016							<0.015
11/16/2016	<0.015	<0.015		<0.015	<0.015	<0.075	<0.015
1/16/2017				<0.015			
1/17/2017	<0.015	<0.015			0.0011 (J)		
1/18/2017							<0.015
1/19/2017						0.0011 (J)	
3/2/2017	<0.015	<0.015		<0.015	<0.015	0.0012 (J)	<0.015
4/18/2017	<0.015	<0.015		<0.015	<0.015	0.0013 (J)	
4/19/2017							<0.015
7/13/2017					<0.015		
3/29/2018	<0.015	<0.015		<0.015	<0.015	0.0017 (J)	
3/30/2018							<0.015
6/12/2018	<0.015			0.0012 (J)	0.0029 (J)		
6/13/2018		<0.015				0.00087 (J)	<0.015
10/9/2018	<0.015			<0.015	<0.015		
10/10/2018		<0.015				<0.075	<0.015
1/28/2019				<0.015	<0.015		
1/29/2019	<0.015	<0.015	<0.015			<0.075	<0.015
1/28/2020	0.00095 (J)	<0.015	0.0014 (J)	0.00064 (J)	0.00085 (J)		
1/29/2020						0.0015 (J)	<0.015
3/9/2020				<0.015	0.0012 (J)		
3/10/2020	0.00093 (J)	<0.015	0.0012 (J)			<0.075	<0.015
9/16/2020	0.00079 (J)	<0.015	0.0014 (J)	0.0022 (J)	0.0019 (J)		<0.015
9/17/2020						0.0012 (J)	
1/25/2021				<0.015			
1/26/2021	0.00083 (J)	<0.015	0.00066 (J)		0.00079 (J)	0.0016 (J)	<0.015
3/23/2021		<0.015	0.00089 (J)	<0.015	0.00093 (J)		
3/24/2021	0.00089 (J)					0.0029 (J)	<0.015
8/23/2021				0.0016 (J)	0.0012 (J)		
8/24/2021	<0.015	<0.015	0.0011 (J)				<0.015
8/25/2021						0.00088 (J)	
2/22/2022	0.00091 (J)	<0.015	0.00078 (J)	<0.015	0.001 (J)	0.0014 (J)	
2/23/2022							<0.015
8/2/2022	<0.015	<0.015	0.0015 (J)	<0.015	<0.015		
8/3/2022						0.0011 (J)	
8/4/2022							<0.015
2/7/2023	<0.015	<0.015	<0.015	<0.015	0.00098 (J)		
2/8/2023						0.0012 (J)	<0.015
8/1/2023	<0.015	<0.015	0.0014 (J)	<0.015	<0.015	0.0012 (J)	
8/2/2023							<0.015
2/6/2024	<0.015	<0.015	<0.015	<0.015	<0.015	0.00099 (J)	
2/7/2024							<0.015
8/13/2024	0.00091 (J)	0.0015 (J)	<0.015	<0.015	0.00091 (J)	0.0011 (J)	
8/14/2024							<0.015
2/3/2025	<0.015	<0.015					

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Molybdenum (mg/L) Analysis Run 3/26/2025 12:56 PM

Plant McIntosh Client: Southern Company Data: McIntosh AP-1

	MGWA-5 (bg)	MGWA-6 (bg)	MGWA-6A (bg)	MGWA-10 (bg)	MGWA-11 (bg)	MGWC-1	MGWC-2
2/4/2025			<0.015	<0.015	0.00086 (J)	0.0011 (J)	
2/5/2025							<0.015

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Molybdenum (mg/L) Analysis Run 3/26/2025 12:56 PM

Plant McIntosh Client: Southern Company Data: McIntosh AP-1

	MGWC-3	MGWC-7	MGWC-8	MGWC-12	MGWC-19	MGWC-20
5/5/2016		0.00351 (J)	<0.015			
5/6/2016	<0.015					
6/21/2016	<0.015	<0.015	<0.015	0.002 (J)		
8/15/2016		<0.015	<0.015			
8/16/2016	<0.015			0.0012 (J)		
9/28/2016		<0.015	<0.015			
9/29/2016	<0.015			0.0014 (J)		
11/16/2016	<0.015	<0.015	<0.015	<0.015		
1/17/2017	<0.015	<0.015	<0.015			
1/18/2017				<0.015		
3/2/2017	<0.015	<0.015	<0.015	<0.015		
4/18/2017	<0.015	<0.015	0.0037 (J)			
4/25/2017				<0.015		
7/13/2017				<0.015		
3/29/2018		<0.015		<0.015		
3/30/2018	<0.015		<0.015			
6/12/2018				<0.015		
6/13/2018	<0.015	<0.015	<0.015			
10/10/2018	<0.015	<0.015	<0.015	<0.015		
1/29/2019	<0.015	<0.015	<0.015	<0.015		
1/28/2020		<0.015		<0.015		
1/29/2020	<0.015		<0.015			
3/10/2020	<0.015	<0.015	<0.015	<0.015		
9/16/2020				0.0024 (J)		
9/17/2020	<0.015	<0.015	<0.015			
1/26/2021	<0.015	<0.015	<0.015	<0.015		
3/24/2021	<0.015	<0.015	<0.015	<0.015		
8/24/2021	<0.015					
8/25/2021		<0.015	<0.015	<0.015		
2/22/2022				0.00064 (J)		
2/23/2022	<0.015	<0.015	<0.015			
8/2/2022				0.00093 (J)		
8/3/2022	<0.015	<0.015				
8/4/2022			<0.015			
2/7/2023	<0.015			<0.015		
2/8/2023		<0.015	<0.015			
8/1/2023	<0.015		<0.015			
8/2/2023		<0.015		<0.015		
2/6/2024		<0.015				
2/7/2024	<0.015		<0.015	<0.015		
8/14/2024	<0.015	<0.015	<0.015	<0.015		
2/4/2025	<0.015	<0.015	<0.015	<0.015		<0.015
2/5/2025					0.00095 (J)	

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: pH, Field (SU) Analysis Run 3/26/2025 12:56 PM

Plant McIntosh Client: Southern Company Data: McIntosh AP-1

	MGWA-5 (bg)	MGWA-6 (bg)	MGWA-6A (bg)	MGWA-10 (bg)	MGWA-11 (bg)	MGWC-1	MGWC-2
5/5/2016	7.4	7.13		5.94			
5/6/2016						6.64	7.41
6/20/2016	7.63			5.84	7.82		
6/21/2016		7.25				6.99	7.41
8/15/2016	7.54	7.04		5.65	7.52		
8/16/2016						6.48	7.33
9/28/2016	7.45	7.09		5.72	7.66	6.7	
9/29/2016							7.42
11/16/2016	7.39	7.6		5.65	7.51	6.66	7.87
1/16/2017				5.52			
1/17/2017	7.23	6.99			7.52		
1/18/2017							7.49
1/19/2017						6.81	
3/2/2017	7.55	6.95		5.53	7.5	6.75	7.37
4/18/2017	7.43	7.02		5.64	7.75	6.93	
4/19/2017							7.48
7/13/2017					7.72		
10/10/2017	7.47	7.27		5.51	7.42	6.99	7.29
10/11/2017				6.11	6.35		
3/29/2018	7.19	6.95		5.35	7.42	6.82	
3/30/2018							7.31
6/12/2018	7.55			6.23	8.02		
6/13/2018		7.08				7.01	7.37
10/9/2018	7.8			5.62	7.79		
10/10/2018		7.01				7.04	7.41
12/4/2018	7.26						
12/5/2018		6.81		5.44	7.43		
12/6/2018						6.76	7.28
1/28/2019			6.93	5.49	7.4		
1/29/2019	7.63	6.55	6.93			6.87	7.03
3/25/2019	7.44		7.1	5.27	7.29		
3/26/2019	7.44	6.57				7.01	7.29
9/10/2019	7.41	6.99	7.15	5.97	7.54	7.09	7.26
1/28/2020	7.46	7.17	7.36	5.78	7.4		
1/29/2020						7.19	7.3
3/9/2020				5.46	7.58		
3/10/2020	7.3	7	7.04			7.11	7.3
9/16/2020	7.38	6.98	6.89	6.37	7.89		7.16
9/17/2020						6.95	
12/7/2020		7.2					
12/8/2020						7.41	
1/25/2021				4.87			
1/26/2021	6.86	7.19	7.17		7.43	7.43	7.57
3/23/2021		6.74	6.56	5	7.06		
3/24/2021	6.88					7.14	7.24
8/23/2021				6.16	8.12		
8/24/2021	7.78	7.11	7.28				7.42
8/25/2021						7.27	
2/22/2022	7.57	7.14	7.2	5.38	7.6	7.32	
2/23/2022							7.44
8/2/2022	7.45	7.1	7.27	5.41	7.57		
8/3/2022						7.23	

Time Series

Constituent: pH, Field (SU) Analysis Run 3/26/2025 12:56 PM

Plant McIntosh Client: Southern Company Data: McIntosh AP-1

	MGWA-5 (bg)	MGWA-6 (bg)	MGWA-6A (bg)	MGWA-10 (bg)	MGWA-11 (bg)	MGWC-1	MGWC-2
8/4/2022							7.37
2/7/2023	7.85	7.13	7.24	5.46	7.72		
2/8/2023						7.28	7.44
8/1/2023	7.52	7.14	7.2	5.46	7.61	7.3	
8/2/2023							7.31
2/6/2024	7.67	7.07	7.23	5.52	7.86	7.47	
2/7/2024							7.71
8/13/2024	7.67	7.27	7.23	5.43	7.72	7.14	
8/14/2024							7.73
2/3/2025	7.67	7.17					
2/4/2025			7.42	5.4	7.61	7.2	
2/5/2025							7.66

Time Series

Constituent: pH, Field (SU) Analysis Run 3/26/2025 12:56 PM

Plant McIntosh Client: Southern Company Data: McIntosh AP-1

	MGWC-3	MGWC-7	MGWC-8	MGWC-12	MGWC-19	MGWC-20
5/5/2016		7.81	5.96			
5/6/2016	6.85					
6/21/2016	6.98	7.2	6	7.61		
8/15/2016		7.04	5.26			
8/16/2016	6.73			7.17		
9/28/2016		7	5.66			
9/29/2016	6.81			6.97		
11/16/2016	6.69	6.73	5.33	7.03		
1/17/2017	6.77	6.61	5.24			
1/18/2017				7.01		
3/2/2017	6.79	6.62	5.21	7.02		
4/18/2017	6.77	6.7	5.85			
4/25/2017				7.02		
7/13/2017				7.17		
10/10/2017	7	6.48	5.6	7.24		
3/29/2018		6.46		6.93		
3/30/2018	6.68		5.16			
6/12/2018				7.29		
6/13/2018	6.83	6.24	5.79			
10/10/2018	6.69	6.12	5.15	7.12		
12/5/2018		6.02	5.11	6.73	7.55	
12/6/2018	6.56					6.52
1/29/2019	6.42	5.93	5.46	8.02		
3/26/2019	6.68	5.96	5.19	7.14		
9/10/2019	6.67	6.03	5.1	10.96 (O)		
1/28/2020		6.61		7.25		
1/29/2020	6.68		5.76			
3/10/2020	6.87	6.54	5.5	7.53		
9/16/2020				11.03 (O)		
9/17/2020	6.68	6.39	5.22			
12/8/2020	7.04					
1/26/2021	6.53	6.27	6.2	6.7		
3/24/2021	6.73	6.26	6.71	7.15		
8/24/2021	6.92					
8/25/2021		6.85	5.26	7.44		
10/26/2021			5.99			
2/22/2022				7.41		
2/23/2022	6.98	6.91	6.22			6.02
4/18/2022	6.84					
8/2/2022				7.06		
8/3/2022	6.91	6.86				
8/4/2022			6.5			6.18
2/7/2023	7.01			6.95		
2/8/2023		7.43	6.76			
8/1/2023	7.09		6.77			
8/2/2023		6.9		7.2		
2/6/2024		7				
2/7/2024	7.49		7.81	6.83		
8/14/2024	7.14	7.5	7.81	7.37		
12/9/2024					7.51	6.18
2/4/2025	6.9	6.71	7.67	6.75		6.42
2/5/2025					7.75	

Time Series

Constituent: Selenium (mg/L) Analysis Run 3/26/2025 12:56 PM

Plant McIntosh Client: Southern Company Data: McIntosh AP-1

	MGWA-5 (bg)	MGWA-6 (bg)	MGWA-6A (bg)	MGWA-10 (bg)	MGWA-11 (bg)	MGWC-1	MGWC-2
5/5/2016	<0.005	<0.005		<0.005			
5/6/2016						<0.005	<0.005
6/20/2016	<0.005			<0.005	<0.005		
6/21/2016		<0.005				<0.005	<0.005
8/15/2016	<0.005	<0.005		0.00062 (J)	<0.005		
8/16/2016						<0.005	<0.005
9/28/2016	<0.005	<0.005		0.0003 (J)	<0.005	<0.005	
9/29/2016							<0.005
11/16/2016	<0.005	<0.005		<0.005	<0.005	<0.005	<0.005
1/16/2017				<0.005			
1/17/2017	<0.005	<0.005			<0.005		
1/18/2017							<0.005
1/19/2017						<0.005	
3/2/2017	<0.005	<0.005		<0.005	<0.005	<0.005	<0.005
4/18/2017	<0.005	<0.005		<0.005	<0.005	<0.005	
4/19/2017							<0.005
7/13/2017					<0.005		
3/29/2018	<0.005	<0.005		0.00027 (J)	<0.005	0.0005 (J)	
3/30/2018							0.00045 (J)
6/12/2018	<0.005			0.00076 (J)	0.00049 (J)		
6/13/2018		<0.005				<0.005	<0.005
10/9/2018	<0.005			0.00054 (J)	<0.005		
10/10/2018		<0.005				0.00036 (J)	<0.005
1/28/2019				<0.005	<0.005		
1/29/2019	<0.005	<0.005	<0.005			<0.005	<0.005
1/28/2020	<0.005	<0.005	<0.005	<0.005	<0.005		
1/29/2020						<0.005	<0.005
1/25/2021				<0.005			
1/26/2021	<0.005	<0.005	<0.005		<0.005	<0.005	<0.005
2/22/2022	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	
2/23/2022							<0.005
8/2/2022	<0.005	<0.005	<0.005	<0.005	<0.005		
8/3/2022						<0.005	
8/4/2022							<0.005
2/7/2023	<0.005	<0.005	<0.005	<0.005	<0.005		
2/8/2023						<0.005	<0.005
8/1/2023	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	
8/2/2023							<0.005
2/6/2024	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	
2/7/2024							<0.005
8/13/2024	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	
8/14/2024							<0.005
2/3/2025	<0.005	<0.005					
2/4/2025			<0.005	<0.005	<0.005	<0.005	
2/5/2025							<0.005

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Selenium (mg/L) Analysis Run 3/26/2025 12:56 PM

Plant McIntosh Client: Southern Company Data: McIntosh AP-1

	MGWC-3	MGWC-7	MGWC-8	MGWC-12	MGWC-19	MGWC-20
5/5/2016		<0.005	<0.005			
5/6/2016	<0.005					
6/21/2016	<0.005	<0.005	<0.005	<0.005		
8/15/2016		<0.005	0.00033 (J)			
8/16/2016	<0.005			<0.005		
9/28/2016		<0.005	0.00038 (J)			
9/29/2016	<0.005			<0.005		
11/16/2016	<0.005	<0.005	<0.005	<0.005		
1/17/2017	<0.005	<0.005	<0.005			
1/18/2017				<0.005		
3/2/2017	<0.005	<0.005	<0.005	<0.005		
4/18/2017	<0.005	<0.005	0.0024			
4/25/2017				<0.005		
7/13/2017				<0.005		
3/29/2018		0.00026 (J)		0.00027 (J)		
3/30/2018	0.00044 (J)		0.00027 (J)			
6/12/2018				<0.005		
6/13/2018	<0.005	<0.005	<0.005			
10/10/2018	<0.005	<0.005	0.00039 (J)	<0.005		
1/29/2019	<0.005	<0.005	<0.005	<0.005		
1/28/2020		<0.005		<0.005		
1/29/2020	<0.005		<0.005			
1/26/2021	<0.005	<0.005	<0.005	<0.005		
2/22/2022				<0.005		
2/23/2022	<0.005	<0.005	<0.005			
8/2/2022				<0.005		
8/3/2022	<0.005	<0.005				
8/4/2022			<0.005			
2/7/2023	<0.005			<0.005		
2/8/2023		<0.005	<0.005			
8/1/2023	<0.005		<0.005			
8/2/2023		<0.005		<0.005		
2/6/2024		<0.005				
2/7/2024	<0.005		<0.005	<0.005		
8/14/2024	<0.005	<0.005	<0.005	<0.005		
2/4/2025	<0.005	<0.005	<0.005	<0.005		<0.005
2/5/2025					<0.005	

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Sulfate (mg/L) Analysis Run 3/26/2025 12:56 PM

Plant McIntosh Client: Southern Company Data: McIntosh AP-1

	MGWA-5 (bg)	MGWA-6 (bg)	MGWA-6A (bg)	MGWA-10 (bg)	MGWA-11 (bg)	MGWC-1	MGWC-2
5/5/2016	4.47	17.8		2.46			
5/6/2016						106	445
6/20/2016	7.7			2.5	1		
6/21/2016		17				210	290
8/15/2016	7.5	20		1.9	0.73 (J)		
8/16/2016						120	270
9/28/2016	7.8	21		1.9	<1	110	
9/29/2016							280
11/16/2016	6.7	20		1.7	<1	130	280
1/16/2017				<1			
1/17/2017	6.7	19			<1		
1/18/2017							280
1/19/2017						160	
3/2/2017	5.6	15		1.4	<1	130	240
4/18/2017	5.1	14		1.3	<1	120	
4/19/2017							250
7/13/2017					1.4		
10/10/2017	4.9	11		1.1	0.87 (J)	170	240
6/12/2018	3.8			0.82 (J)	4.1		
6/13/2018		8.7				130	220
10/9/2018	6.7			0.82 (J)	2.2		
10/10/2018		8.7				140	220
12/5/2018					1.2		
1/29/2019			7.08				
3/25/2019	3.4		1.8	1.1	1.3		
3/26/2019		6.3				130	190
9/10/2019	4.7	5.6	0.6 (J)	1.1	1.8	140	180
3/9/2020				4.2	3.4		
3/10/2020	5.2	5	2.4			140	170
9/16/2020	3.2	2.7	1	0.69 (J)	3		160
9/17/2020						150	
3/23/2021		3.2	1.7	<1	1.4		
3/24/2021	3.5					120	180
8/23/2021				<1	3.4		
8/24/2021	3.6	3.5	3.3				160
8/25/2021						140	
2/22/2022	3.2	5.4	2.1	<1	1.1	150	
2/23/2022							180
8/2/2022	2.7	2.3	2.1	<1	0.8 (J)		
8/3/2022						140	
8/4/2022							150
2/7/2023	2.5	2.3	1.6	<1	3.3		
2/8/2023						140	150
8/1/2023	2.9	3.2	4	0.56 (J)	1	140	
8/2/2023							150
2/6/2024	2.4	2.8	2.4	<1	0.82 (J)	140	
2/7/2024							150
8/13/2024	3.3	4.4	4.2	0.59 (J)	3.3	140	
8/14/2024							140
2/3/2025	3.4	4.6					
2/4/2025			4	<1	<1	140	
2/5/2025							150

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Sulfate (mg/L) Analysis Run 3/26/2025 12:56 PM

Plant McIntosh Client: Southern Company Data: McIntosh AP-1

	MGWC-3	MGWC-7	MGWC-8	MGWC-12	MGWC-19	MGWC-20
5/5/2016		116	144			
5/6/2016	94.2					
6/21/2016	95	170	160	4		
8/15/2016		170	120			
8/16/2016	88			2.8		
9/28/2016		170	130			
9/29/2016	94			<1		
11/16/2016	97	170	130	3		
1/17/2017	100	180	150			
1/18/2017				4.1		
3/2/2017	100	180	160	4.6		
4/18/2017	91	160	180			
4/25/2017				4.4		
7/13/2017				4.8		
10/10/2017	110	180	260	4.9		
6/12/2018				4.1		
6/13/2018	110	180	330			
10/10/2018	110	190	410	2.5		
12/5/2018		190				
3/26/2019	110	180	420	2.9		
9/10/2019	110	180	420	2.5		
3/10/2020	130	170	370	7.8		
9/16/2020				4.4		
9/17/2020	120	160	380			
3/24/2021	130	180	280	7.1		
8/24/2021	130					
8/25/2021		180	420	6.6		
2/22/2022				4.8		
2/23/2022	150	260	390			
8/2/2022				3.1		
8/3/2022	130	220				
8/4/2022			350			
2/7/2023	120			4.7		
2/8/2023		220	280			
8/1/2023	110		280			
8/2/2023		200		4.6		
2/6/2024		200				
2/7/2024	94		310	8.2		
8/14/2024	80	200	230	8.9		
12/9/2024					290	150
2/4/2025	73	230	380	11		160
2/5/2025					280	

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: TDS (mg/L) Analysis Run 3/26/2025 12:56 PM

Plant McIntosh Client: Southern Company Data: McIntosh AP-1

	MGWA-5 (bg)	MGWA-6 (bg)	MGWA-6A (bg)	MGWA-10 (bg)	MGWA-11 (bg)	MGWC-1	MGWC-2
5/5/2016	129	281		78			
5/6/2016						282	661
6/20/2016	156			80	188		
6/21/2016		303				516	692
8/15/2016	160	310		58	180		
8/16/2016						360	650
9/28/2016	91	170		29	100	190	
9/29/2016							640
11/16/2016	250	340		140	270	410	680
1/16/2017				36			
1/17/2017	140	310			170		
1/18/2017							630
1/19/2017						400	
3/2/2017	170	330		78	210	360	660
4/18/2017	140	290		16	160	360	
4/19/2017							600
7/13/2017					150		
10/10/2017	190	310		78	210	480	600
6/12/2018	180			62	150		
6/13/2018		230				390	570
10/9/2018	170			68	150		
10/10/2018		300				260	470
1/29/2019			280				
3/25/2019	150		250	54	210		
3/26/2019		290				370	530
9/10/2019	110	260	230	14	160	360	470
3/9/2020				56	190		
3/10/2020	170	300	260			450	540
9/16/2020	150	300	320	44	150		530
9/17/2020						460	
3/23/2021		300	270	53	220		
3/24/2021	150					380	490
8/23/2021				55	200		
8/24/2021	160	300	280				510
8/25/2021						470	
2/22/2022	150	300	270	38	210	420	
2/23/2022							490
8/2/2022	270	200	190	65	210		
8/3/2022						440	
8/4/2022							480
2/7/2023	150	290	260	61	190		
2/8/2023						400	440
8/1/2023	170	330	360	57	300	450	
8/2/2023							520
2/6/2024	150	280	260	57	210	420	
2/7/2024							450
8/13/2024	150	290	270	63	200	420	
8/14/2024							450
2/3/2025	150	260					
2/4/2025			250	54	220	400	
2/5/2025							420

Time Series

Constituent: TDS (mg/L) Analysis Run 3/26/2025 12:56 PM

Plant McIntosh Client: Southern Company Data: McIntosh AP-1

	MGWC-3	MGWC-7	MGWC-8	MGWC-12	MGWC-19	MGWC-20
5/5/2016		272	287			
5/6/2016	380					
6/21/2016	392	356	297	177		
8/15/2016		330	230			
8/16/2016	360			160		
9/28/2016		180	130			
9/29/2016	380			190		
11/16/2016	420	330	290	240		
1/17/2017	380	310	240			
1/18/2017				180		
3/2/2017	410	340	270	170		
4/18/2017	360	300	310			
4/25/2017				170		
7/13/2017				150		
10/10/2017	400	340	450	160		
6/12/2018				170		
6/13/2018	320	320	600			
10/10/2018	300	270	410	48		
3/26/2019	370	320	630	180		
9/10/2019	360	260	660	140		
3/10/2020	390	370	600	170		
9/16/2020				190		
9/17/2020	410	320	740			
3/24/2021	430	330	530	190		
8/24/2021	450					
8/25/2021		390	720	230		
2/22/2022				190		
2/23/2022	450	390	630			
8/2/2022				150		
8/3/2022	430	400				
8/4/2022			620			
2/7/2023	410			190		
2/8/2023		370	480			
8/1/2023	420		570			
8/2/2023		410		200		
2/6/2024		350				
2/7/2024	370		590	200		
8/14/2024	360	350	580	190		
12/9/2024					510	320
2/4/2025	330	330	590	200		310
2/5/2025					500	

Time Series

Constituent: Thallium (mg/L) Analysis Run 3/26/2025 12:56 PM

Plant McIntosh Client: Southern Company Data: McIntosh AP-1

	MGWA-5 (bg)	MGWA-6 (bg)	MGWA-6A (bg)	MGWA-10 (bg)	MGWA-11 (bg)	MGWC-1	MGWC-2
5/5/2016	<0.001	<0.001		<0.001			
5/6/2016						<0.001	<0.001
6/20/2016	<0.001			<0.001	<0.001		
6/21/2016		0.0001 (J)				9E-05 (J)	<0.001
8/15/2016	<0.001	<0.001		<0.001	<0.001		
8/16/2016						<0.001	<0.001
9/28/2016	<0.001	<0.001		<0.001	<0.001	<0.001	
9/29/2016							<0.001
11/16/2016	<0.001	<0.001		<0.001	<0.001	<0.001	<0.001
1/16/2017				<0.001			
1/17/2017	<0.001	<0.001			<0.001		
1/18/2017							<0.001
1/19/2017						<0.001	
3/2/2017	<0.001	<0.001		<0.001	<0.001	<0.001	<0.001
4/18/2017	<0.001	<0.001		<0.001	<0.001	9.5E-05 (J)	
4/19/2017							<0.001
7/13/2017					<0.001		
3/29/2018	<0.001	<0.001		<0.001	<0.001	0.00014 (J)	
3/30/2018							<0.001
6/12/2018	<0.001			<0.001	<0.001		
6/13/2018		<0.001				<0.001	<0.001
10/9/2018	<0.001			<0.001	<0.001		
10/10/2018		<0.001				<0.001	<0.001
1/28/2019				<0.001	<0.001		
1/29/2019	<0.001	<0.001	<0.001			<0.001	<0.001
1/28/2020	<0.001	0.00027 (J)	<0.001	<0.001	0.00033 (J)		
1/29/2020						0.00032 (J)	0.00021 (J)
3/9/2020				0.00058 (J)	0.00036 (J)		
3/10/2020	0.00015 (J)	0.00019 (J)	<0.001			<0.001	<0.001
9/16/2020	0.00018 (J)	0.00021 (J)	<0.001	<0.001	0.00041 (J)		<0.001
9/17/2020						0.00016 (J)	
1/25/2021				<0.001			
1/26/2021	<0.001	<0.001	<0.001		<0.001	0.00016 (J)	<0.001
3/23/2021		0.00025 (J)	<0.001	0.00046 (J)	0.00051 (J)		
3/24/2021	<0.001					<0.001	<0.001
8/23/2021				<0.001	0.0004 (J)		
8/24/2021	<0.001	0.00017 (J)	<0.001				<0.001
8/25/2021						<0.001	
2/22/2022	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	
2/23/2022							<0.001
8/2/2022	<0.001	<0.001	<0.001	<0.001	<0.001		
8/3/2022						<0.001	
8/4/2022							<0.001
2/7/2023	<0.001	<0.001	<0.001	<0.001	<0.001		
2/8/2023						<0.001	<0.001
8/1/2023	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	
8/2/2023							<0.001
2/6/2024	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	
2/7/2024							<0.001
8/13/2024	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	
8/14/2024							<0.001
2/3/2025	<0.001	<0.001					

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Thallium (mg/L) Analysis Run 3/26/2025 12:56 PM

Plant McIntosh Client: Southern Company Data: McIntosh AP-1

	MGWA-5 (bg)	MGWA-6 (bg)	MGWA-6A (bg)	MGWA-10 (bg)	MGWA-11 (bg)	MGWC-1	MGWC-2
2/4/2025			<0.001	<0.001	<0.001	<0.001	
2/5/2025							<0.001

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Thallium (mg/L) Analysis Run 3/26/2025 12:56 PM

Plant McIntosh Client: Southern Company Data: McIntosh AP-1

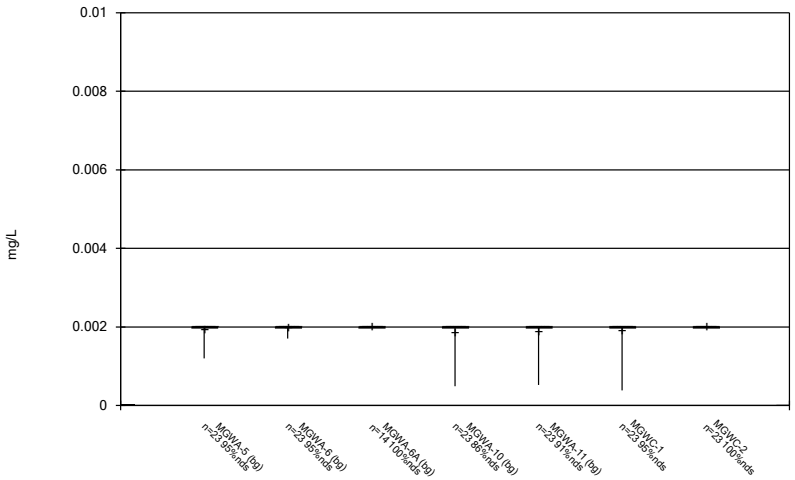
	MGWC-3	MGWC-7	MGWC-8	MGWC-12	MGWC-19	MGWC-20
5/5/2016		<0.001	<0.001			
5/6/2016	<0.001					
6/21/2016	<0.001	<0.001	0.0001 (J)	<0.001		
8/15/2016		<0.001	0.00016 (J)			
8/16/2016	<0.001			<0.001		
9/28/2016		<0.001	0.00014 (J)			
9/29/2016	<0.001			<0.001		
11/16/2016	<0.001	<0.001	9E-05 (J)	<0.001		
1/17/2017	<0.001	<0.001	0.00016 (J)			
1/18/2017				<0.001		
3/2/2017	<0.001	<0.001	0.00018 (J)	<0.001		
4/18/2017	<0.001	<0.001	0.00019 (J)			
4/25/2017				<0.001		
7/13/2017				<0.001		
3/29/2018		<0.001		<0.001		
3/30/2018	<0.001		0.00027 (J)			
6/12/2018				<0.001		
6/13/2018	<0.001	<0.001	0.00027 (J)			
10/10/2018	<0.001	<0.001	0.00025 (J)	<0.001		
1/29/2019	<0.001	<0.001	<0.001	<0.001		
1/28/2020		<0.001		<0.001		
1/29/2020	0.00037 (J)		0.00042 (J)			
3/10/2020	0.00016 (J)	<0.001	0.00025 (J)	0.00015 (J)		
9/16/2020				0.00027 (J)		
9/17/2020	<0.001	<0.001	0.00031 (J)			
1/26/2021	<0.001	0.00016 (J)	0.0003 (J)	<0.001		
3/24/2021	<0.001	<0.001	<0.001	<0.001		
8/24/2021	<0.001					
8/25/2021		<0.001	0.0004 (J)	<0.001		
2/22/2022				<0.001		
2/23/2022	<0.001	<0.001	<0.001			
8/2/2022				<0.001		
8/3/2022	<0.001	<0.001				
8/4/2022			<0.001			
2/7/2023	<0.001			<0.001		
2/8/2023		<0.001	<0.001			
8/1/2023	<0.001		<0.001			
8/2/2023		<0.001		<0.001		
2/6/2024		<0.001				
2/7/2024	<0.001		<0.001	<0.001		
8/14/2024	<0.001	<0.001	<0.001	<0.001		
2/4/2025	<0.001	<0.001	<0.001	<0.001		<0.001
2/5/2025					<0.001	

ND substitution: RL or RL/2 if <15% NDs.

FIGURE B.

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Box & Whiskers Plot

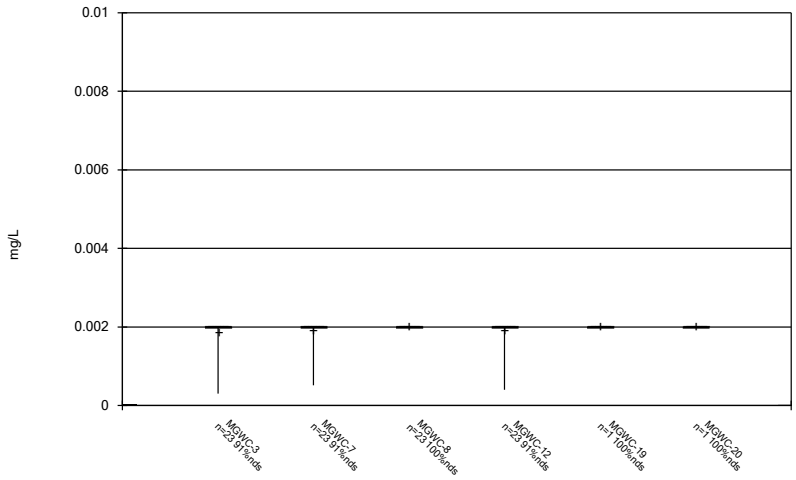


Constituent: Antimony Analysis Run 3/26/2025 12:57 PM

Plant McIntosh Client: Southern Company Data: McIntosh AP-1

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Box & Whiskers Plot

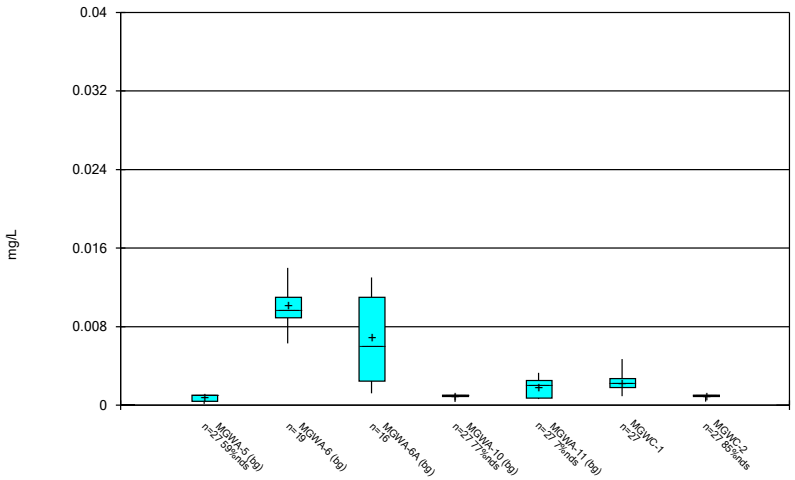


Constituent: Antimony Analysis Run 3/26/2025 12:57 PM

Plant McIntosh Client: Southern Company Data: McIntosh AP-1

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Box & Whiskers Plot

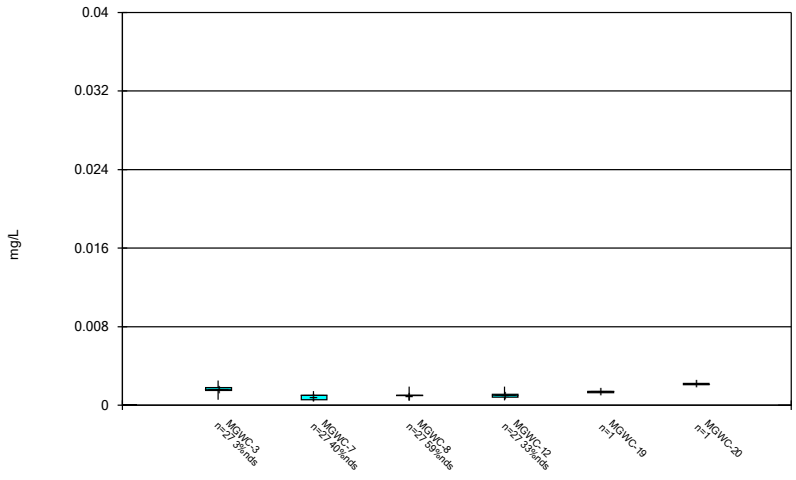


Constituent: Arsenic Analysis Run 3/26/2025 12:57 PM

Plant McIntosh Client: Southern Company Data: McIntosh AP-1

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Box & Whiskers Plot

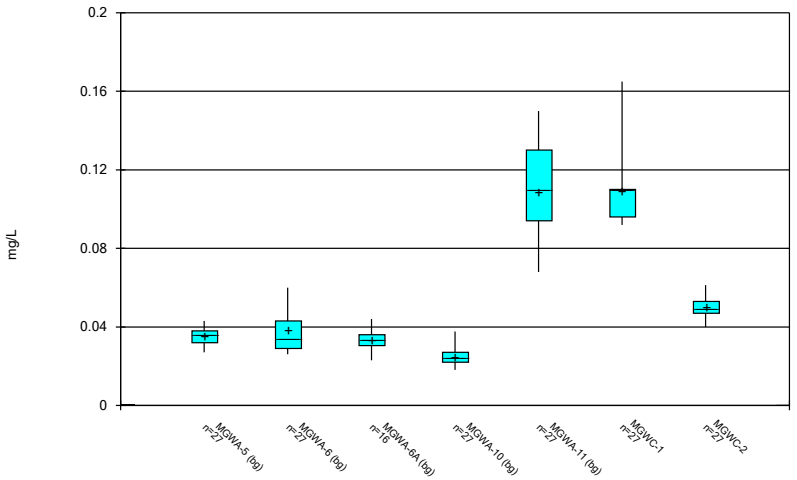


Constituent: Arsenic Analysis Run 3/26/2025 12:57 PM

Plant McIntosh Client: Southern Company Data: McIntosh AP-1

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Box & Whiskers Plot

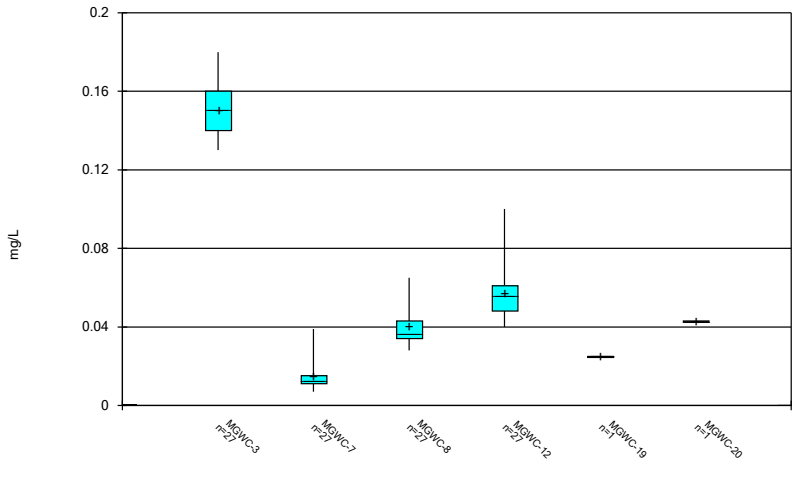


Constituent: Barium Analysis Run 3/26/2025 12:57 PM

Plant McIntosh Client: Southern Company Data: McIntosh AP-1

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Box & Whiskers Plot

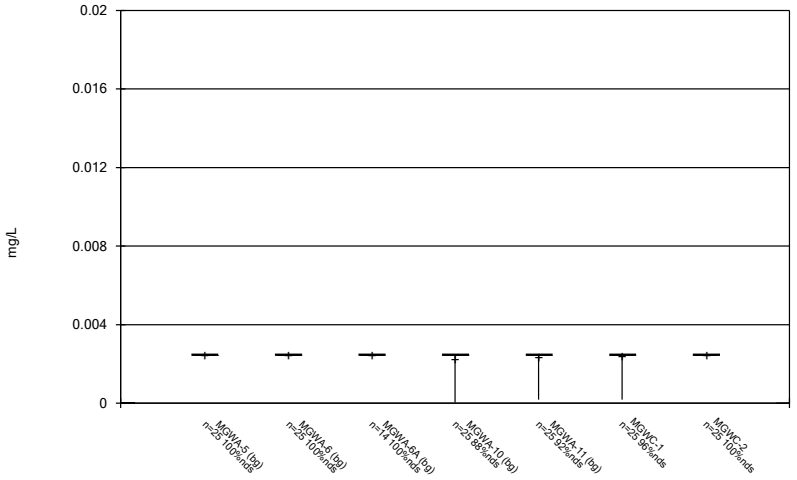


Constituent: Barium Analysis Run 3/26/2025 12:57 PM

Plant McIntosh Client: Southern Company Data: McIntosh AP-1

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Box & Whiskers Plot

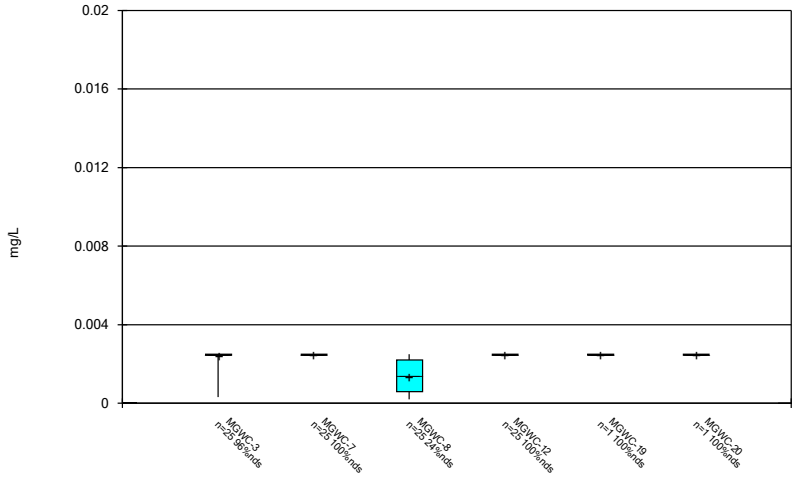


Constituent: Beryllium Analysis Run 3/26/2025 12:57 PM

Plant McIntosh Client: Southern Company Data: McIntosh AP-1

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Box & Whiskers Plot

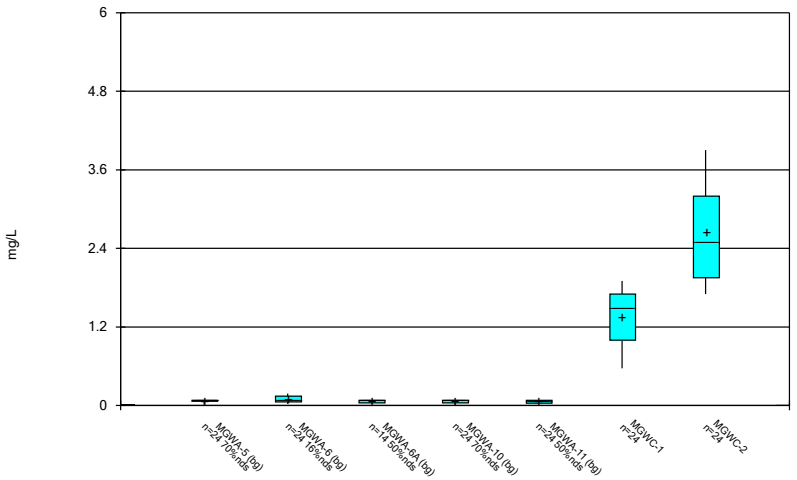


Constituent: Beryllium Analysis Run 3/26/2025 12:57 PM

Plant McIntosh Client: Southern Company Data: McIntosh AP-1

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Box & Whiskers Plot

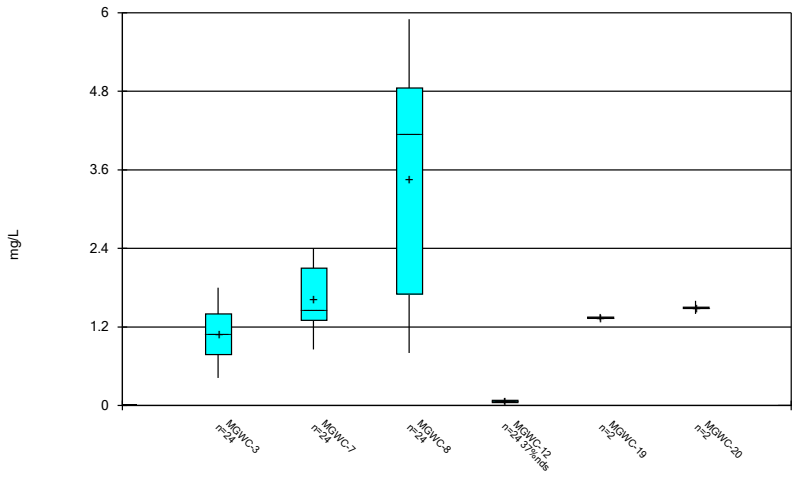


Constituent: Boron Analysis Run 3/26/2025 12:57 PM

Plant McIntosh Client: Southern Company Data: McIntosh AP-1

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Box & Whiskers Plot

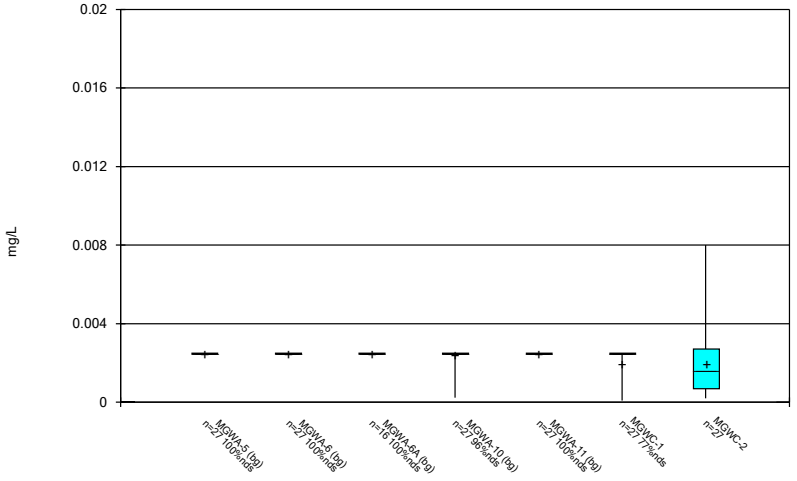


Constituent: Boron Analysis Run 3/26/2025 12:57 PM

Plant McIntosh Client: Southern Company Data: McIntosh AP-1

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Box & Whiskers Plot

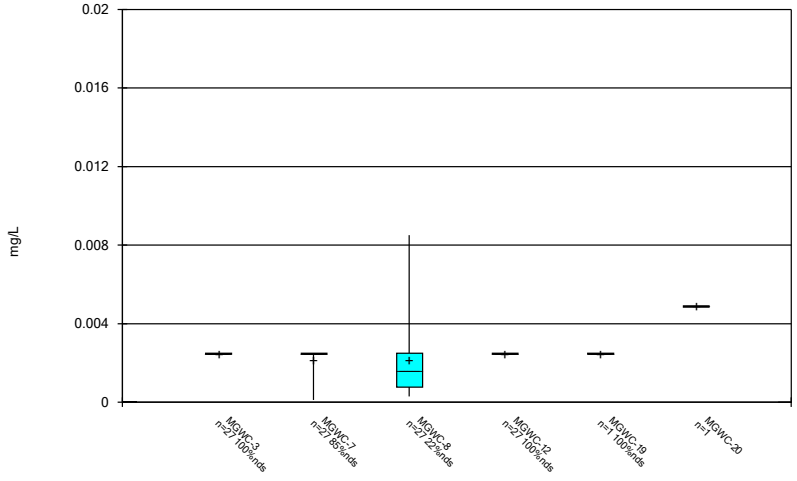


Constituent: Cadmium Analysis Run 3/26/2025 12:57 PM

Plant McIntosh Client: Southern Company Data: McIntosh AP-1

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Box & Whiskers Plot

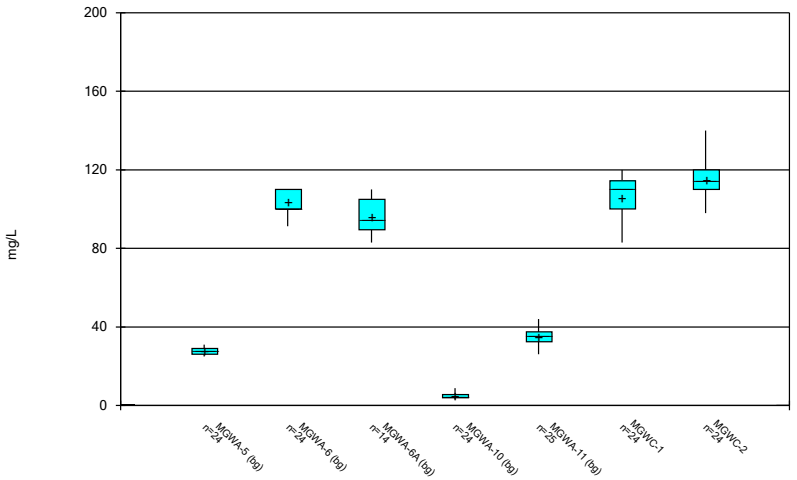


Constituent: Cadmium Analysis Run 3/26/2025 12:57 PM

Plant McIntosh Client: Southern Company Data: McIntosh AP-1

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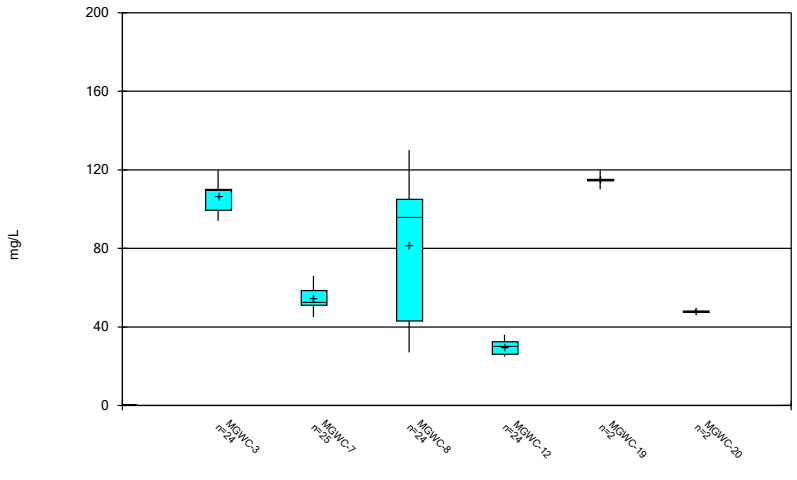
Box & Whiskers Plot



Constituent: Calcium Analysis Run 3/26/2025 12:57 PM
Plant McIntosh Client: Southern Company Data: McIntosh AP-1

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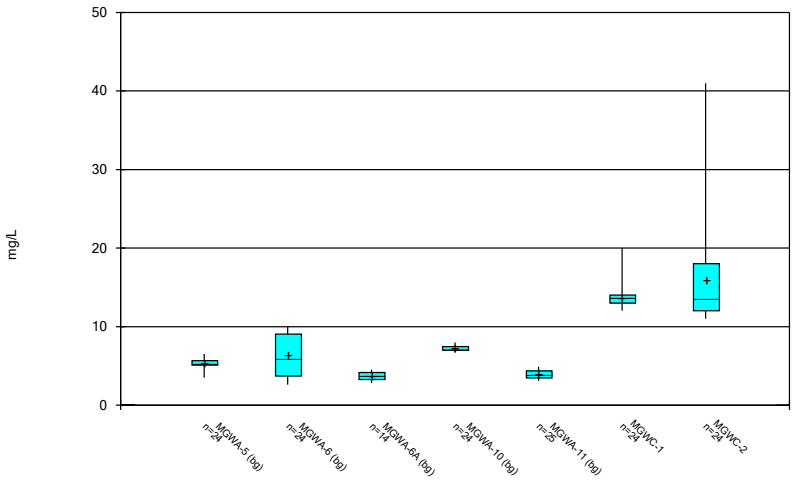
Box & Whiskers Plot



Constituent: Calcium Analysis Run 3/26/2025 12:57 PM
Plant McIntosh Client: Southern Company Data: McIntosh AP-1

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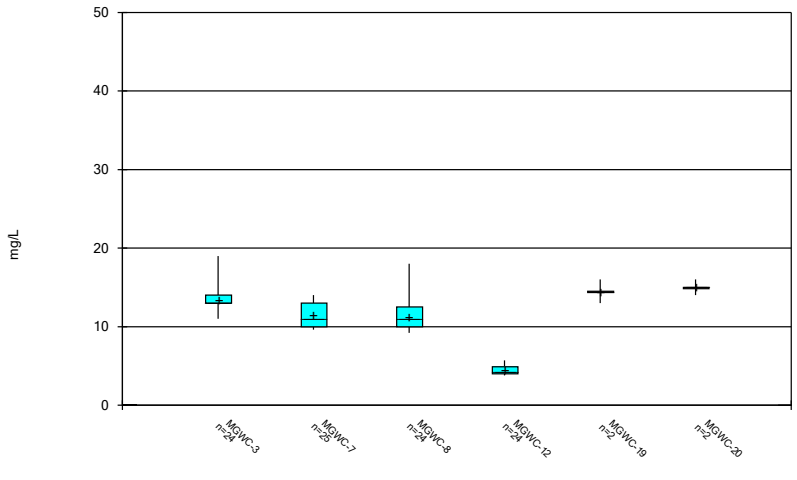
Box & Whiskers Plot



Constituent: Chloride Analysis Run 3/26/2025 12:57 PM
Plant McIntosh Client: Southern Company Data: McIntosh AP-1

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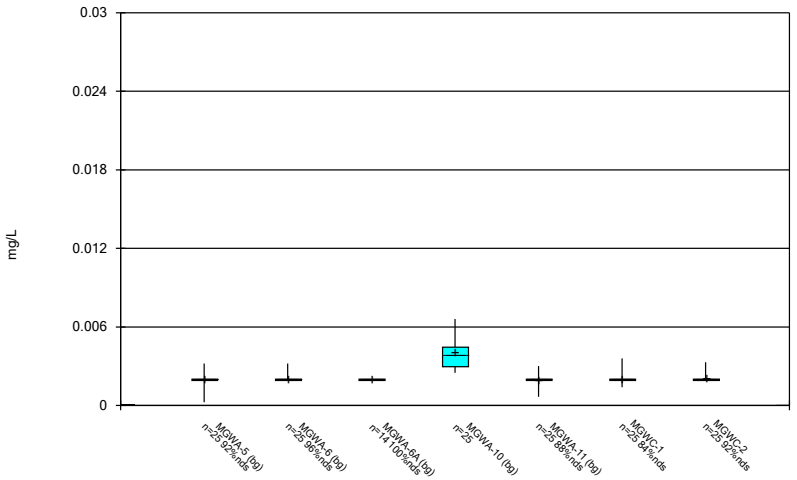
Box & Whiskers Plot



Constituent: Chloride Analysis Run 3/26/2025 12:57 PM
Plant McIntosh Client: Southern Company Data: McIntosh AP-1

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Box & Whiskers Plot

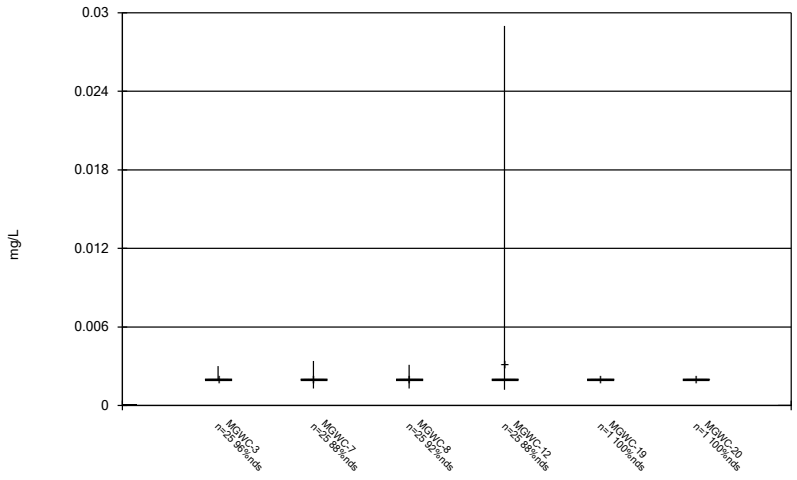


Constituent: Chromium Analysis Run 3/26/2025 12:57 PM

Plant McIntosh Client: Southern Company Data: McIntosh AP-1

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Box & Whiskers Plot

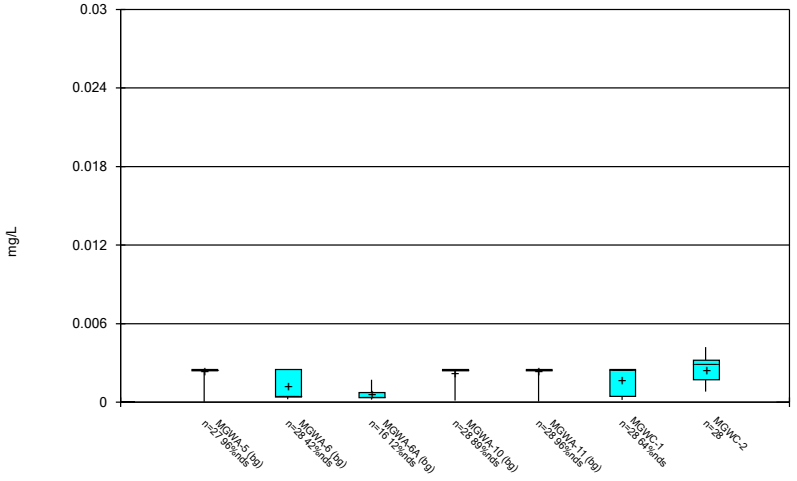


Constituent: Chromium Analysis Run 3/26/2025 12:57 PM

Plant McIntosh Client: Southern Company Data: McIntosh AP-1

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Box & Whiskers Plot

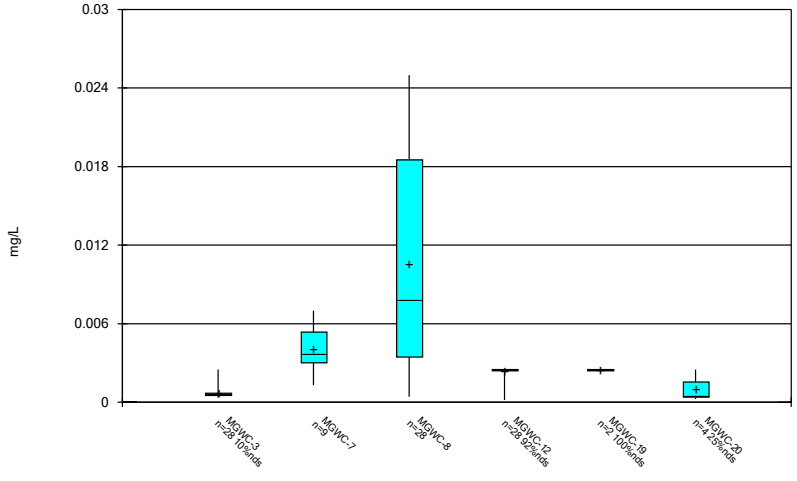


Constituent: Cobalt Analysis Run 3/26/2025 12:57 PM

Plant McIntosh Client: Southern Company Data: McIntosh AP-1

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Box & Whiskers Plot

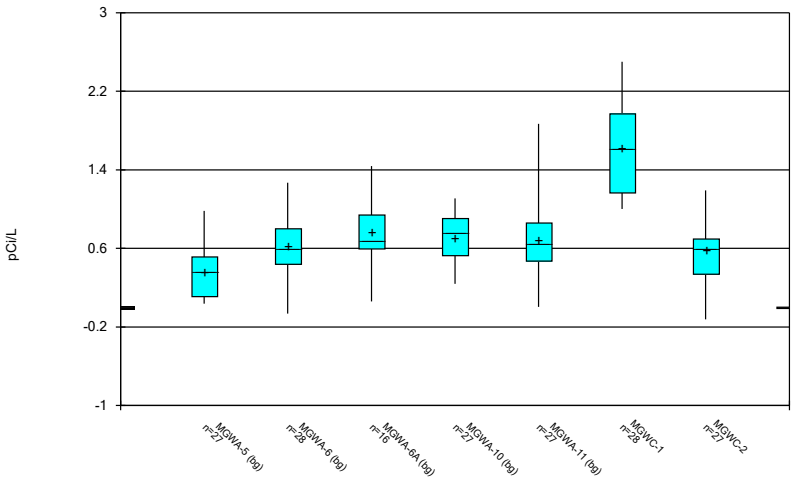


Constituent: Cobalt Analysis Run 3/26/2025 12:57 PM

Plant McIntosh Client: Southern Company Data: McIntosh AP-1

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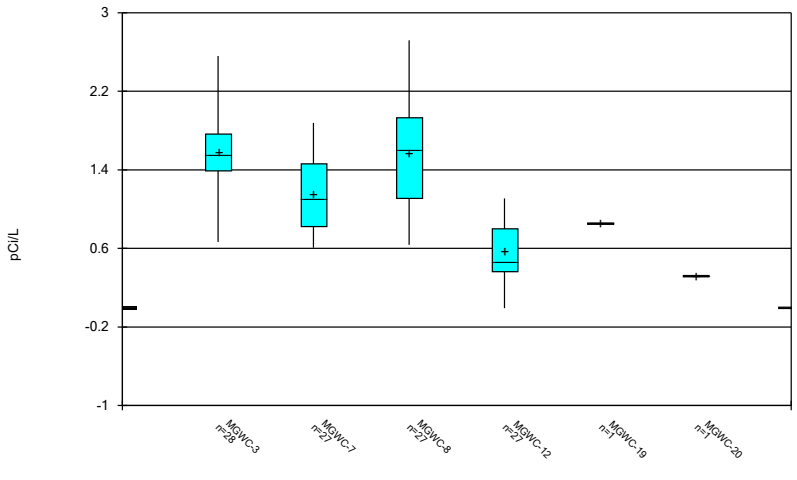
Box & Whiskers Plot



Constituent: Combined Radium 226 + 228 Analysis Run 3/26/2025 12:57 PM
Plant McIntosh Client: Southern Company Data: McIntosh AP-1

Sanitas™ v.10.0.24 Software licensed to Groundwater Stats Consulting. UG

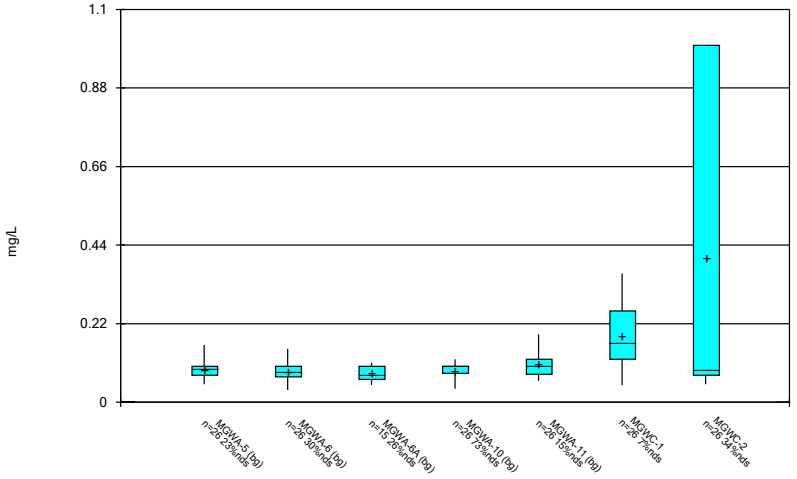
Box & Whiskers Plot



Constituent: Combined Radium 226 + 228 Analysis Run 3/26/2025 12:57 PM
Plant McIntosh Client: Southern Company Data: McIntosh AP-1

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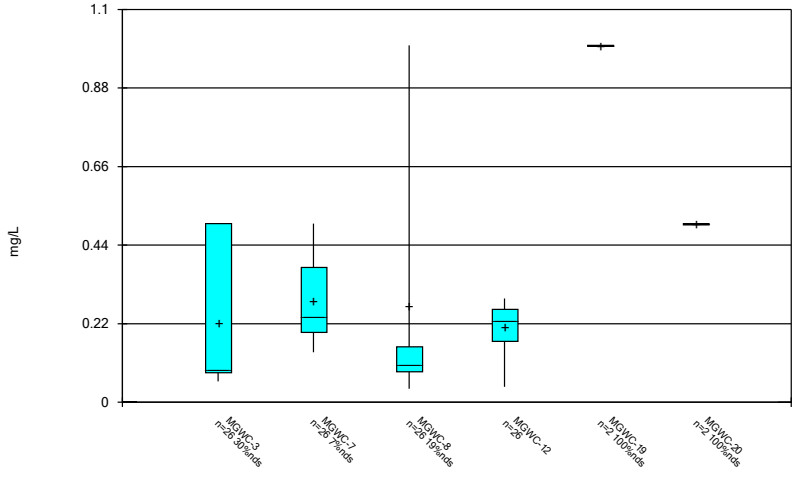
Box & Whiskers Plot



Constituent: Fluoride Analysis Run 3/26/2025 12:57 PM
Plant McIntosh Client: Southern Company Data: McIntosh AP-1

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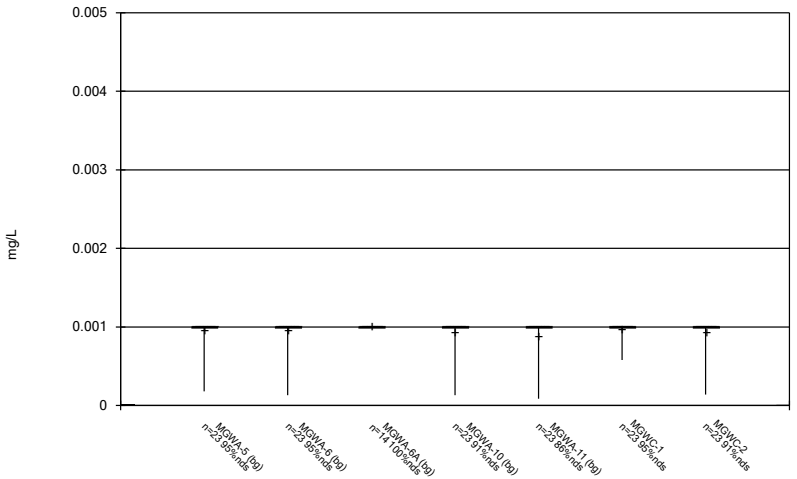
Box & Whiskers Plot



Constituent: Fluoride Analysis Run 3/26/2025 12:58 PM
Plant McIntosh Client: Southern Company Data: McIntosh AP-1

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Box & Whiskers Plot

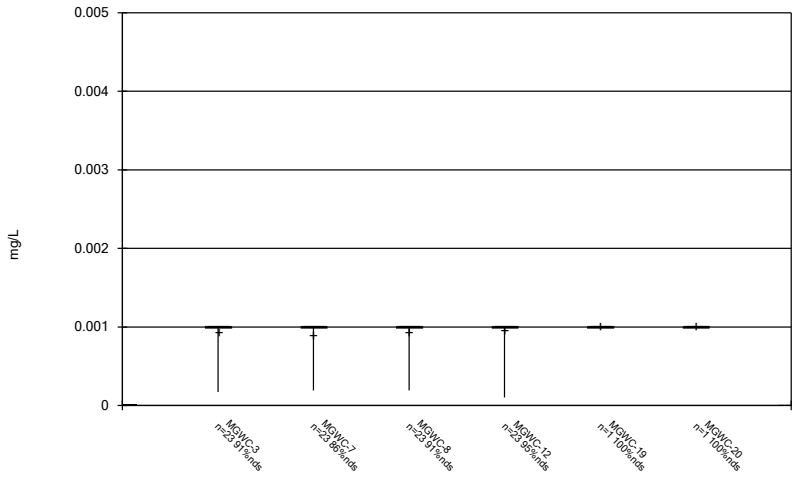


Constituent: Lead Analysis Run 3/26/2025 12:58 PM

Plant McIntosh Client: Southern Company Data: McIntosh AP-1

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Box & Whiskers Plot

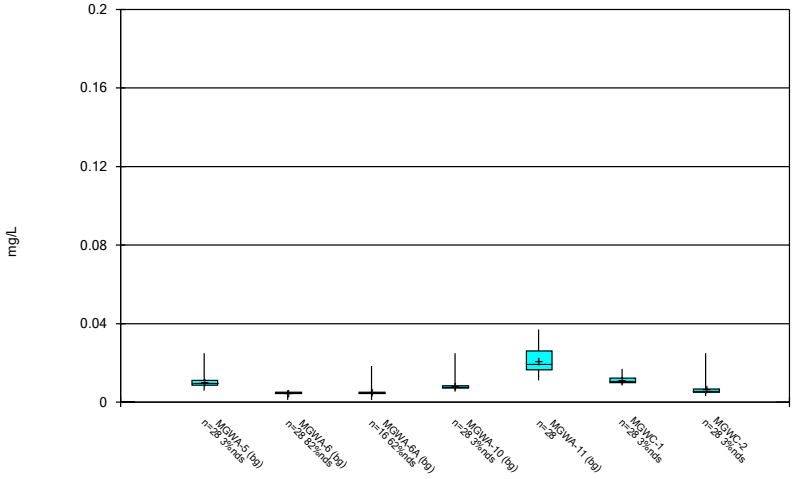


Constituent: Lead Analysis Run 3/26/2025 12:58 PM

Plant McIntosh Client: Southern Company Data: McIntosh AP-1

Sanitas™ v.10.0.24 Software licensed to Groundwater Stats Consulting. UG

Box & Whiskers Plot

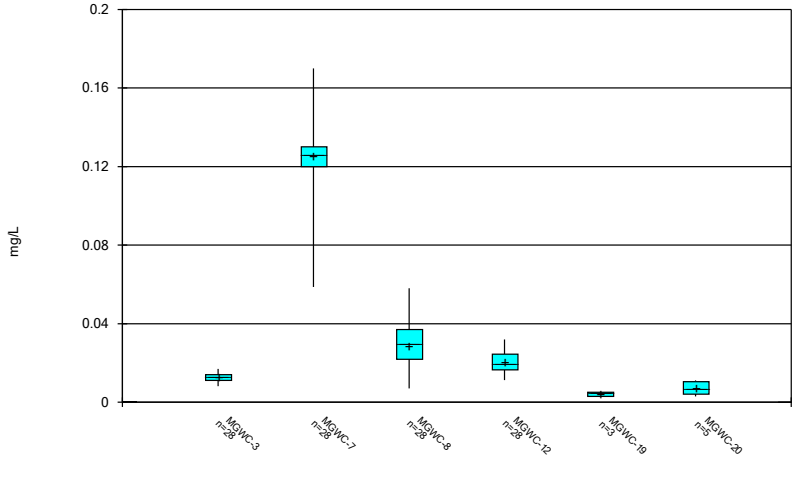


Constituent: Lithium Analysis Run 3/26/2025 12:58 PM

Plant McIntosh Client: Southern Company Data: McIntosh AP-1

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Box & Whiskers Plot

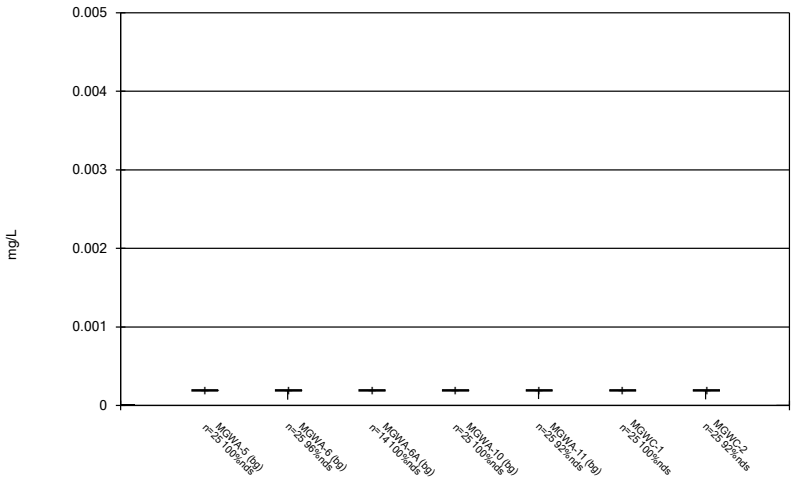


Constituent: Lithium Analysis Run 3/26/2025 12:58 PM

Plant McIntosh Client: Southern Company Data: McIntosh AP-1

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Box & Whiskers Plot

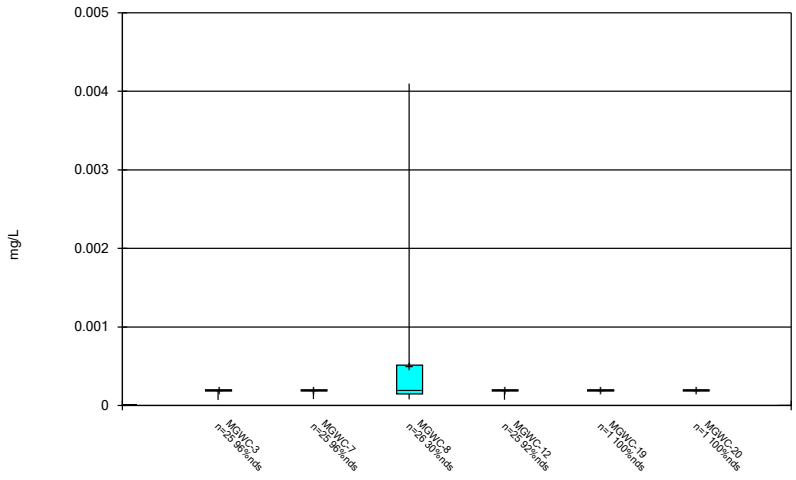


Constituent: Mercury Analysis Run 3/26/2025 12:58 PM

Plant McIntosh Client: Southern Company Data: McIntosh AP-1

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Box & Whiskers Plot

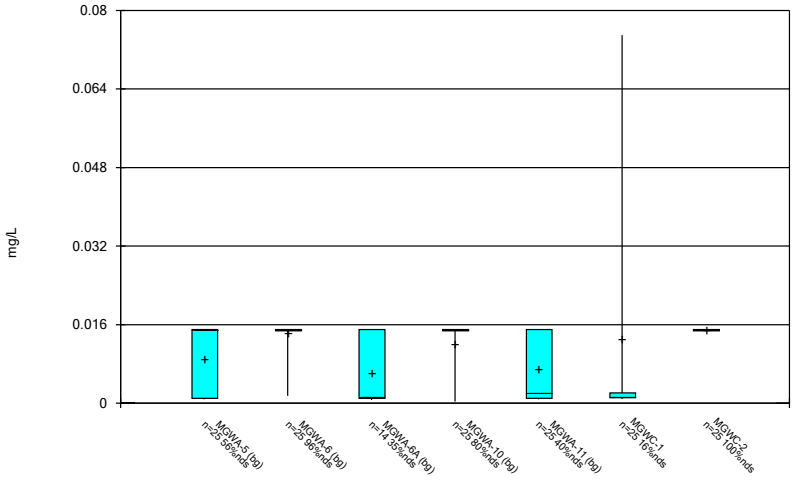


Constituent: Mercury Analysis Run 3/26/2025 12:58 PM

Plant McIntosh Client: Southern Company Data: McIntosh AP-1

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Box & Whiskers Plot

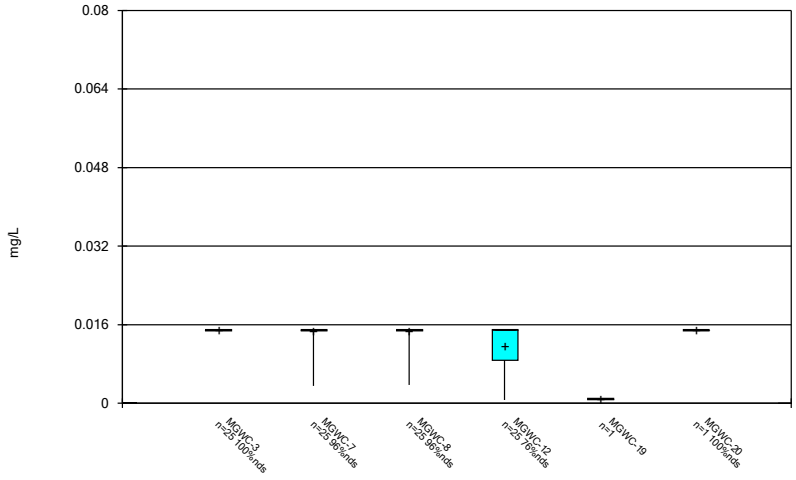


Constituent: Molybdenum Analysis Run 3/26/2025 12:58 PM

Plant McIntosh Client: Southern Company Data: McIntosh AP-1

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Box & Whiskers Plot

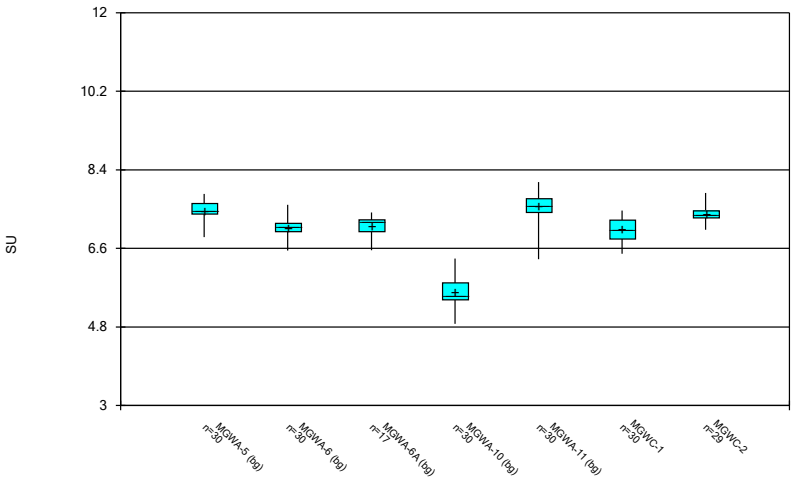


Constituent: Molybdenum Analysis Run 3/26/2025 12:58 PM

Plant McIntosh Client: Southern Company Data: McIntosh AP-1

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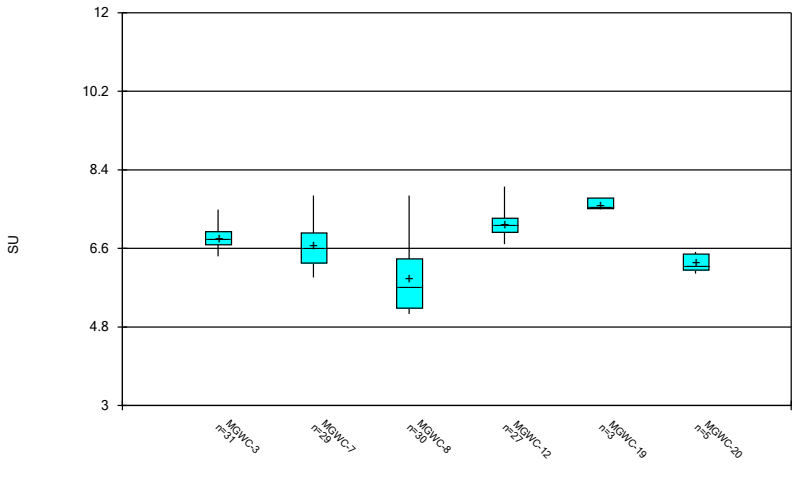
Box & Whiskers Plot



Constituent: pH, Field Analysis Run 3/26/2025 12:58 PM
Plant McIntosh Client: Southern Company Data: McIntosh AP-1

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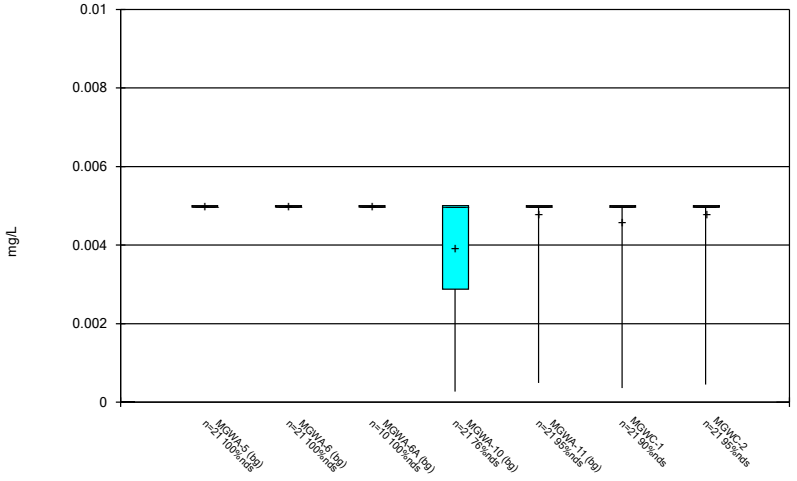
Box & Whiskers Plot



Constituent: pH, Field Analysis Run 3/26/2025 12:58 PM
Plant McIntosh Client: Southern Company Data: McIntosh AP-1

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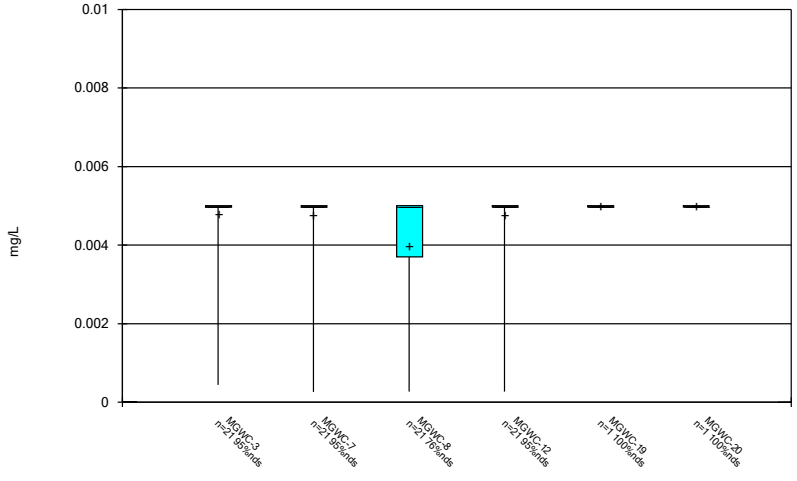
Box & Whiskers Plot



Constituent: Selenium Analysis Run 3/26/2025 12:58 PM
Plant McIntosh Client: Southern Company Data: McIntosh AP-1

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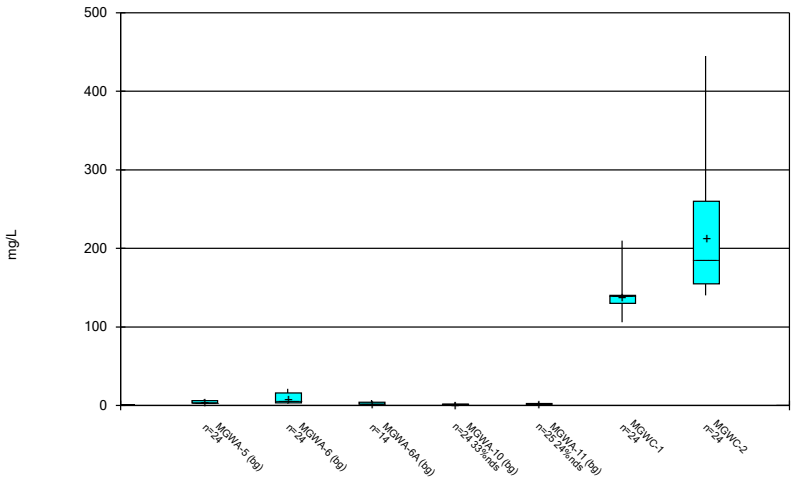
Box & Whiskers Plot



Constituent: Selenium Analysis Run 3/26/2025 12:58 PM
Plant McIntosh Client: Southern Company Data: McIntosh AP-1

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Box & Whiskers Plot

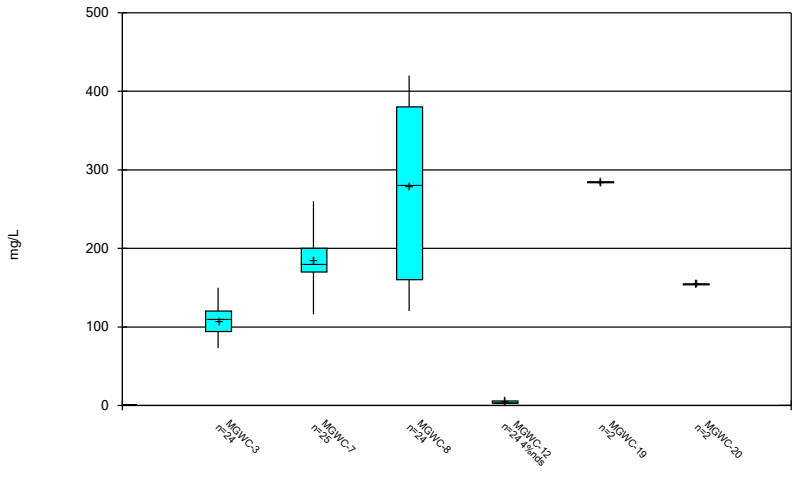


Constituent: Sulfate Analysis Run 3/26/2025 12:58 PM

Plant McIntosh Client: Southern Company Data: McIntosh AP-1

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Box & Whiskers Plot

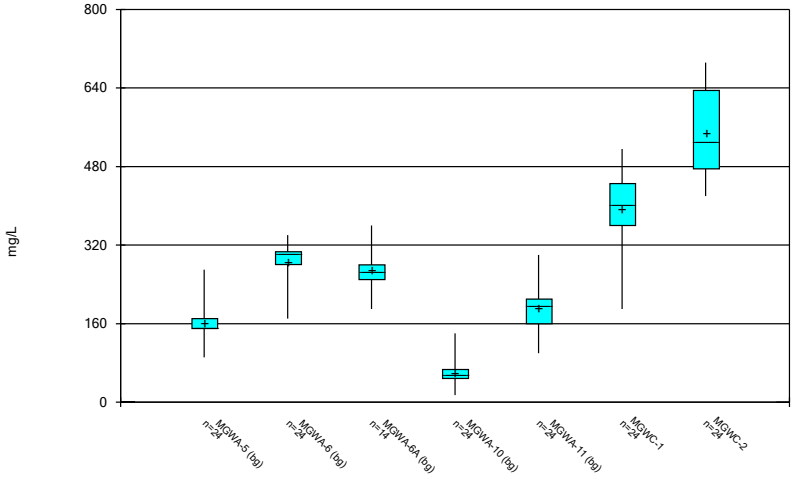


Constituent: Sulfate Analysis Run 3/26/2025 12:58 PM

Plant McIntosh Client: Southern Company Data: McIntosh AP-1

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Box & Whiskers Plot

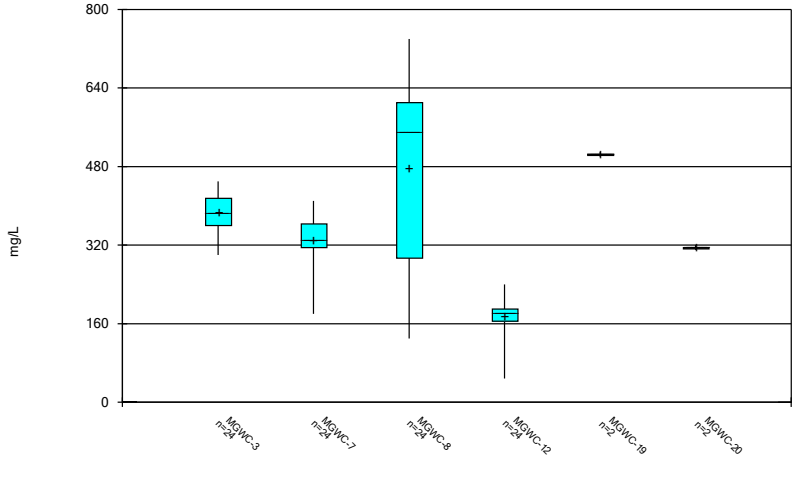


Constituent: TDS Analysis Run 3/26/2025 12:58 PM

Plant McIntosh Client: Southern Company Data: McIntosh AP-1

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Box & Whiskers Plot

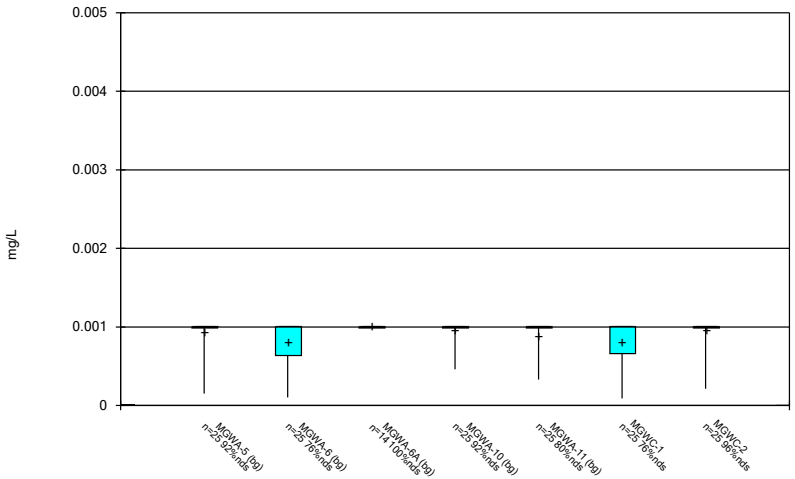


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Plant McIntosh Client: Southern Company Data: McIntosh AP-1

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Box & Whiskers Plot

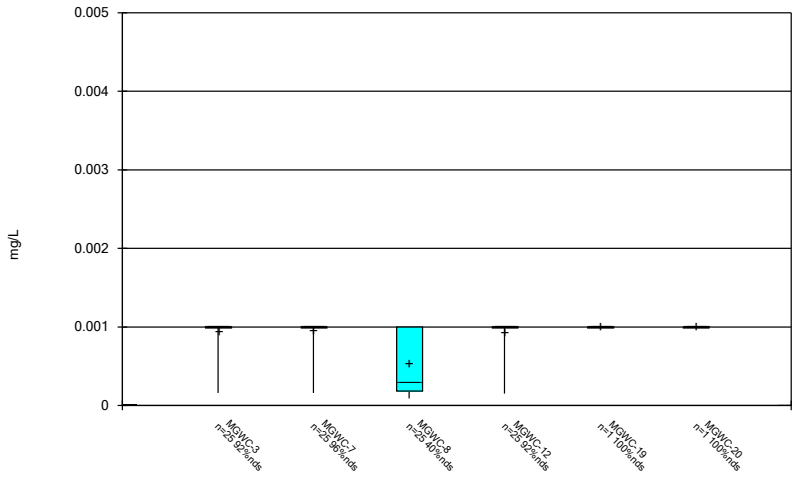


Constituent: Thallium Analysis Run 3/26/2025 12:58 PM

Plant McIntosh Client: Southern Company Data: McIntosh AP-1

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Box & Whiskers Plot



Constituent: Thallium Analysis Run 3/26/2025 12:58 PM

Plant McIntosh Client: Southern Company Data: McIntosh AP-1

FIGURE C.

Outlier Summary

Plant McIntosh Client: Southern Company Data: McIntosh AP-1 Printed 3/26/2025, 1:03 PM

	MGWA-5 Cobalt (mg/L)	MGWC-12 pH, Field (SU)
9/10/2019		10.96 (O)
9/16/2020		11.03 (O)
8/2/2022	0.012 (O)	

FIGURE D.

Appendix III Interwell Prediction Limits - Significant Results

Plant McIntosh Client: Southern Company Data: McIntosh AP-1 Printed 6/4/2025, 4:37 AM

Constituent	Well	Upper Lim.	Lower Lim.	Date	Observ.	Sig.	Bg N	Bg Mean	Std. Dev.	%NDs	ND Adj.	Transform	Alpha	Method
Boron (mg/L)	MGWC-1	0.18	n/a	2/4/2025	1.6	Yes	110	n/a	n/a	51.82	n/a	n/a	0.0001641	NP Inter (NDs) 1 of 2
Boron (mg/L)	MGWC-2	0.18	n/a	2/5/2025	1.7	Yes	110	n/a	n/a	51.82	n/a	n/a	0.0001641	NP Inter (NDs) 1 of 2
Boron (mg/L)	MGWC-3	0.18	n/a	2/4/2025	0.45	Yes	110	n/a	n/a	51.82	n/a	n/a	0.0001641	NP Inter (NDs) 1 of 2
Boron (mg/L)	MGWC-7	0.18	n/a	2/4/2025	2.4	Yes	110	n/a	n/a	51.82	n/a	n/a	0.0001641	NP Inter (NDs) 1 of 2
Boron (mg/L)	MGWC-8	0.18	n/a	2/4/2025	5.9	Yes	110	n/a	n/a	51.82	n/a	n/a	0.0001641	NP Inter (NDs) 1 of 2
Calcium (mg/L)	MGWC-1	110	n/a	2/4/2025	120	Yes	111	n/a	n/a	0	n/a	n/a	0.0001612	NP Inter (normality) 1 of 2
Calcium (mg/L)	MGWC-8	110	n/a	2/4/2025	130	Yes	111	n/a	n/a	0	n/a	n/a	0.0001612	NP Inter (normality) 1 of 2
Chloride (mg/L)	MGWC-1	10	n/a	2/4/2025	20	Yes	111	n/a	n/a	0	n/a	n/a	0.0001612	NP Inter (normality) 1 of 2
Chloride (mg/L)	MGWC-2	10	n/a	2/5/2025	12	Yes	111	n/a	n/a	0	n/a	n/a	0.0001612	NP Inter (normality) 1 of 2
Chloride (mg/L)	MGWC-3	10	n/a	2/4/2025	19	Yes	111	n/a	n/a	0	n/a	n/a	0.0001612	NP Inter (normality) 1 of 2
Chloride (mg/L)	MGWC-8	10	n/a	2/4/2025	11	Yes	111	n/a	n/a	0	n/a	n/a	0.0001612	NP Inter (normality) 1 of 2
Sulfate (mg/L)	MGWC-1	15.5	n/a	2/4/2025	140	Yes	111	0.8751	1.015	12.61	None	ln(x)	0.001254	Param Inter 1 of 2
Sulfate (mg/L)	MGWC-2	15.5	n/a	2/5/2025	150	Yes	111	0.8751	1.015	12.61	None	ln(x)	0.001254	Param Inter 1 of 2
Sulfate (mg/L)	MGWC-3	15.5	n/a	2/4/2025	73	Yes	111	0.8751	1.015	12.61	None	ln(x)	0.001254	Param Inter 1 of 2
Sulfate (mg/L)	MGWC-7	15.5	n/a	2/4/2025	230	Yes	111	0.8751	1.015	12.61	None	ln(x)	0.001254	Param Inter 1 of 2
Sulfate (mg/L)	MGWC-8	15.5	n/a	2/4/2025	380	Yes	111	0.8751	1.015	12.61	None	ln(x)	0.001254	Param Inter 1 of 2
TDS (mg/L)	MGWC-1	360	n/a	2/4/2025	400	Yes	110	n/a	n/a	0	n/a	n/a	0.0001641	NP Inter (normality) 1 of 2
TDS (mg/L)	MGWC-2	360	n/a	2/5/2025	420	Yes	110	n/a	n/a	0	n/a	n/a	0.0001641	NP Inter (normality) 1 of 2
TDS (mg/L)	MGWC-8	360	n/a	2/4/2025	590	Yes	110	n/a	n/a	0	n/a	n/a	0.0001641	NP Inter (normality) 1 of 2

Appendix III Interwell Prediction Limits - All Results

Plant McIntosh Client: Southern Company Data: McIntosh AP-1 Printed 6/4/2025, 4:37 AM

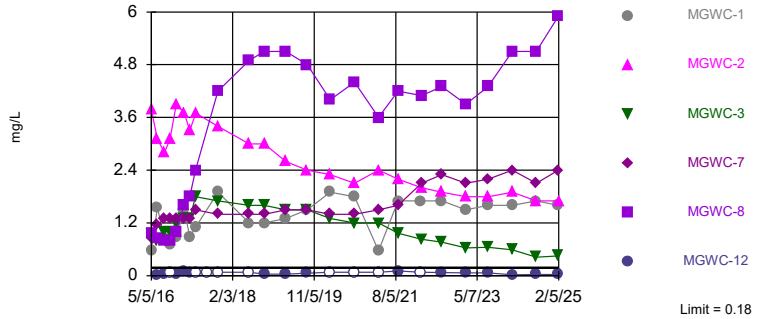
Constituent	Well	Upper Lim.	Lower Lim.	Date	Observ.	Sig.	Bg N	Bg Mean	Std. Dev.	%NDs	ND Adj.	Transform	Alpha	Method
Boron (mg/L)	**MGWC-1**	**0.18**	**n/a**	**2/4/2025**	**1.6**	**Yes**	**110**	**n/a**	**n/a**	**51.82**	**n/a**	**n/a**	**0.0001641**	**NP Inter (NDs) 1 of 2**
Boron (mg/L)	**MGWC-2**	**0.18**	**n/a**	**2/5/2025**	**1.7**	**Yes**	**110**	**n/a**	**n/a**	**51.82**	**n/a**	**n/a**	**0.0001641**	**NP Inter (NDs) 1 of 2**
Boron (mg/L)	**MGWC-3**	**0.18**	**n/a**	**2/4/2025**	**0.45**	**Yes**	**110**	**n/a**	**n/a**	**51.82**	**n/a**	**n/a**	**0.0001641**	**NP Inter (NDs) 1 of 2**
Boron (mg/L)	**MGWC-7**	**0.18**	**n/a**	**2/4/2025**	**2.4**	**Yes**	**110**	**n/a**	**n/a**	**51.82**	**n/a**	**n/a**	**0.0001641**	**NP Inter (NDs) 1 of 2**
Boron (mg/L)	**MGWC-8**	**0.18**	**n/a**	**2/4/2025**	**5.9**	**Yes**	**110**	**n/a**	**n/a**	**51.82**	**n/a**	**n/a**	**0.0001641**	**NP Inter (NDs) 1 of 2**
Boron (mg/L)	MGWC-12	0.18	n/a	2/4/2025	0.03J	No	110	n/a	n/a	51.82	n/a	n/a	0.0001641	NP Inter (NDs) 1 of 2
Calcium (mg/L)	**MGWC-1**	**110**	**n/a**	**2/4/2025**	**120**	**Yes**	**111**	**n/a**	**n/a**	**0**	**n/a**	**n/a**	**0.0001612**	**NP Inter (normality) 1 of 2**
Calcium (mg/L)	MGWC-2	110	n/a	2/5/2025	100	No	111	n/a	n/a	0	n/a	n/a	0.0001612	NP Inter (normality) 1 of 2
Calcium (mg/L)	MGWC-3	110	n/a	2/4/2025	110	No	111	n/a	n/a	0	n/a	n/a	0.0001612	NP Inter (normality) 1 of 2
Calcium (mg/L)	MGWC-7	110	n/a	2/4/2025	61	No	111	n/a	n/a	0	n/a	n/a	0.0001612	NP Inter (normality) 1 of 2
Calcium (mg/L)	**MGWC-8**	**110**	**n/a**	**2/4/2025**	**130**	**Yes**	**111**	**n/a**	**n/a**	**0**	**n/a**	**n/a**	**0.0001612**	**NP Inter (normality) 1 of 2**
Calcium (mg/L)	MGWC-12	110	n/a	2/4/2025	36	No	111	n/a	n/a	0	n/a	n/a	0.0001612	NP Inter (normality) 1 of 2
Chloride (mg/L)	**MGWC-1**	**10**	**n/a**	**2/4/2025**	**20**	**Yes**	**111**	**n/a**	**n/a**	**0**	**n/a**	**n/a**	**0.0001612**	**NP Inter (normality) 1 of 2**
Chloride (mg/L)	**MGWC-2**	**10**	**n/a**	**2/5/2025**	**12**	**Yes**	**111**	**n/a**	**n/a**	**0**	**n/a**	**n/a**	**0.0001612**	**NP Inter (normality) 1 of 2**
Chloride (mg/L)	**MGWC-3**	**10**	**n/a**	**2/4/2025**	**19**	**Yes**	**111**	**n/a**	**n/a**	**0**	**n/a**	**n/a**	**0.0001612**	**NP Inter (normality) 1 of 2**
Chloride (mg/L)	MGWC-7	10	n/a	2/4/2025	10	No	111	n/a	n/a	0	n/a	n/a	0.0001612	NP Inter (normality) 1 of 2
Chloride (mg/L)	**MGWC-8**	**10**	**n/a**	**2/4/2025**	**11**	**Yes**	**111**	**n/a**	**n/a**	**0**	**n/a**	**n/a**	**0.0001612**	**NP Inter (normality) 1 of 2**
Chloride (mg/L)	MGWC-12	10	n/a	2/4/2025	5.7	No	111	n/a	n/a	0	n/a	n/a	0.0001612	NP Inter (normality) 1 of 2
Fluoride (mg/L)	MGWC-1	0.19	n/a	2/4/2025	0.1ND	No	119	n/a	n/a	34.45	n/a	n/a	0.0001379	NP Inter (normality) 1 of 2
Fluoride (mg/L)	MGWC-2	0.19	n/a	2/5/2025	0.1ND	No	119	n/a	n/a	34.45	n/a	n/a	0.0001379	NP Inter (normality) 1 of 2
Fluoride (mg/L)	MGWC-3	0.19	n/a	2/4/2025	0.1ND	No	119	n/a	n/a	34.45	n/a	n/a	0.0001379	NP Inter (normality) 1 of 2
Fluoride (mg/L)	MGWC-7	0.19	n/a	2/4/2025	0.1ND	No	119	n/a	n/a	34.45	n/a	n/a	0.0001379	NP Inter (normality) 1 of 2
Fluoride (mg/L)	MGWC-8	0.19	n/a	2/4/2025	0.1ND	No	119	n/a	n/a	34.45	n/a	n/a	0.0001379	NP Inter (normality) 1 of 2
Fluoride (mg/L)	MGWC-12	0.19	n/a	2/4/2025	0.043J	No	119	n/a	n/a	34.45	n/a	n/a	0.0001379	NP Inter (normality) 1 of 2
pH, Field (SU)	MGWC-1	8.12	4.87	2/4/2025	7.2	No	137	n/a	n/a	0	n/a	n/a	0.0002099	NP Inter (normality) 1 of 2
pH, Field (SU)	MGWC-2	8.12	4.87	2/5/2025	7.66	No	137	n/a	n/a	0	n/a	n/a	0.0002099	NP Inter (normality) 1 of 2
pH, Field (SU)	MGWC-3	8.12	4.87	2/4/2025	6.9	No	137	n/a	n/a	0	n/a	n/a	0.0002099	NP Inter (normality) 1 of 2
pH, Field (SU)	MGWC-7	8.12	4.87	2/4/2025	6.71	No	137	n/a	n/a	0	n/a	n/a	0.0002099	NP Inter (normality) 1 of 2
pH, Field (SU)	MGWC-8	8.12	4.87	2/4/2025	7.67	No	137	n/a	n/a	0	n/a	n/a	0.0002099	NP Inter (normality) 1 of 2
pH, Field (SU)	MGWC-12	8.12	4.87	2/4/2025	6.75	No	137	n/a	n/a	0	n/a	n/a	0.0002099	NP Inter (normality) 1 of 2
Sulfate (mg/L)	**MGWC-1**	**15.5**	**n/a**	**2/4/2025**	**140**	**Yes**	**111**	**0.8751**	**1.015**	**12.61**	**None**	**ln(x)**	**0.001254**	**Param Inter 1 of 2**
Sulfate (mg/L)	**MGWC-2**	**15.5**	**n/a**	**2/5/2025**	**150**	**Yes**	**111**	**0.8751**	**1.015**	**12.61**	**None**	**ln(x)**	**0.001254**	**Param Inter 1 of 2**
Sulfate (mg/L)	**MGWC-3**	**15.5**	**n/a**	**2/4/2025**	**73**	**Yes**	**111**	**0.8751**	**1.015**	**12.61**	**None**	**ln(x)**	**0.001254**	**Param Inter 1 of 2**
Sulfate (mg/L)	**MGWC-7**	**15.5**	**n/a**	**2/4/2025**	**230**	**Yes**	**111**	**0.8751**	**1.015**	**12.61**	**None**	**ln(x)**	**0.001254**	**Param Inter 1 of 2**
Sulfate (mg/L)	**MGWC-8**	**15.5**	**n/a**	**2/4/2025**	**380**	**Yes**	**111**	**0.8751**	**1.015**	**12.61**	**None**	**ln(x)**	**0.001254**	**Param Inter 1 of 2**
Sulfate (mg/L)	MGWC-12	15.5	n/a	2/4/2025	11	No	111	0.8751	1.015	12.61	None	ln(x)	0.001254	Param Inter 1 of 2
TDS (mg/L)	**MGWC-1**	**360**	**n/a**	**2/4/2025**	**400**	**Yes**	**110**	**n/a**	**n/a**	**0**	**n/a**	**n/a**	**0.0001641**	**NP Inter (normality) 1 of 2**
TDS (mg/L)	**MGWC-2**	**360**	**n/a**	**2/5/2025**	**420**	**Yes**	**110**	**n/a**	**n/a**	**0**	**n/a**	**n/a**	**0.0001641**	**NP Inter (normality) 1 of 2**
TDS (mg/L)	MGWC-3	360	n/a	2/4/2025	330	No	110	n/a	n/a	0	n/a	n/a	0.0001641	NP Inter (normality) 1 of 2
TDS (mg/L)	MGWC-7	360	n/a	2/4/2025	330	No	110	n/a	n/a	0	n/a	n/a	0.0001641	NP Inter (normality) 1 of 2
TDS (mg/L)	**MGWC-8**	**360**	**n/a**	**2/4/2025**	**590**	**Yes**	**110**	**n/a**	**n/a**	**0**	**n/a**	**n/a**	**0.0001641**	**NP Inter (normality) 1 of 2**
TDS (mg/L)	MGWC-12	360	n/a	2/4/2025	200	No	110	n/a	n/a	0	n/a	n/a	0.0001641	NP Inter (normality) 1 of 2

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Hollow symbols indicate censored values.

Exceeds Limit: MGWC-1, MGWC-2, MGWC-3, MGWC-7, MGWC-8

Prediction Limit

Interwell Non-parametric



Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 110 background values. 51.82% NDs. Annual per-constituent alpha = 0.001967. Individual comparison alpha = 0.0001641 (1 of 2). Comparing 6 points to limit.

Constituent: Boron Analysis Run 6/4/2025 4:34 AM View: Appendix III Interwell

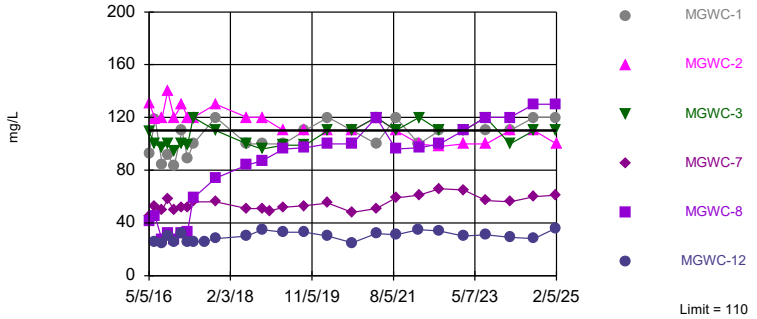
Plant McIntosh Client: Southern Company Data: McIntosh AP-1

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Exceeds Limit: MGWC-1, MGWC-8

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 111 background values. Annual per-constituent alpha = 0.001932. Individual comparison alpha = 0.0001612 (1 of 2). Comparing 6 points to limit.

Constituent: Calcium Analysis Run 6/4/2025 4:34 AM View: Appendix III Interwell

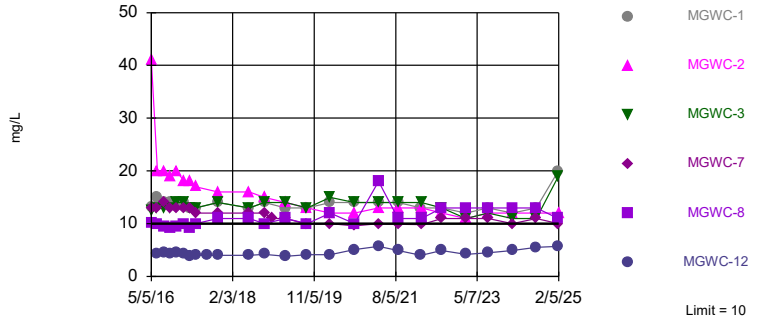
Plant McIntosh Client: Southern Company Data: McIntosh AP-1

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Exceeds Limit: MGWC-1, MGWC-2, MGWC-3, MGWC-8

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 111 background values. Annual per-constituent alpha = 0.001932. Individual comparison alpha = 0.0001612 (1 of 2). Comparing 6 points to limit.

Constituent: Chloride Analysis Run 6/4/2025 4:34 AM View: Appendix III Interwell

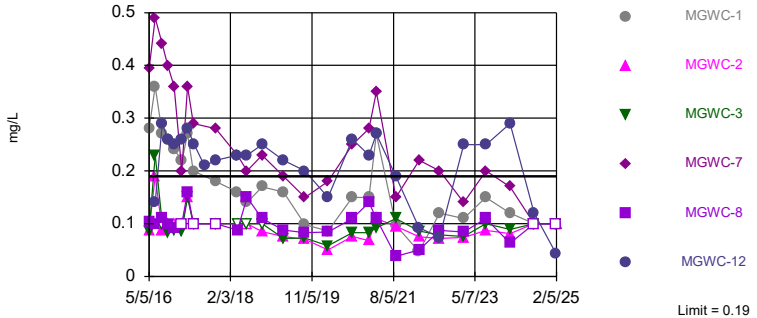
Plant McIntosh Client: Southern Company Data: McIntosh AP-1

Sanitas™ v.10.0.26 Software licensed to Groundwater Stats Consulting. UG
Hollow symbols indicate censored values.

Within Limit

Prediction Limit

Interwell Non-parametric



Non-parametric test used in lieu of parametric prediction limit because the Chi Squared normality test showed the data to be non-normal at the 0.01 alpha level. Limit is highest of 119 background values. 34.45% NDs. Annual per-constituent alpha = 0.001654. Individual comparison alpha = 0.0001379 (1 of 2). Comparing 6 points to limit.

Constituent: Fluoride Analysis Run 6/4/2025 4:34 AM View: Appendix III Interwell

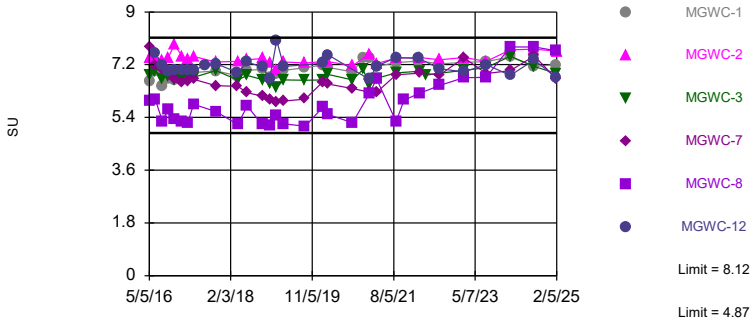
Plant McIntosh Client: Southern Company Data: McIntosh AP-1

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Within Limits

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. Limits are highest and lowest of 137 background values. Annual per-constituent alpha = 0.002517. Individual comparison alpha = 0.0002099 (1 of 2). Comparing 6 points to limit.

Constituent: pH, Field Analysis Run 6/4/2025 4:34 AM View: Appendix III Interwell

Plant McIntosh Client: Southern Company Data: McIntosh AP-1

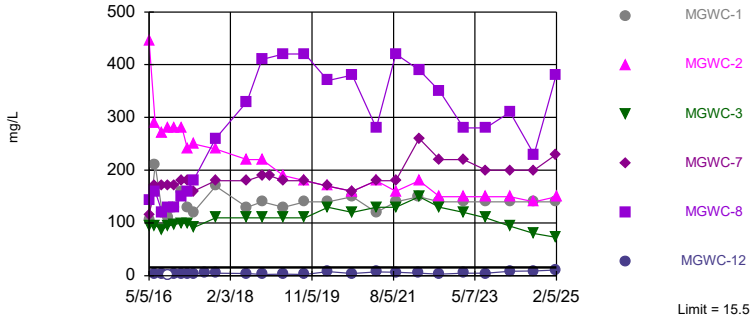
Sanitas™ v.10.0.26 Software licensed to Groundwater Stats Consulting. UG

Hollow symbols indicate censored values.

Exceeds Limit: MGWC-1, MGWC-2, MGWC -3, MGWC-7, MGWC-8

Prediction Limit

Interwell Parametric



Background Data Summary (based on natural log transformation): Mean=0.8751, Std. Dev.=1.015, n=111, 12.61% NDs. Normality test: Chi Squared @alpha = 0.01, calculated = 13.77, critical = 14.07. Kappa = 1.839 (c=7, w=6, 1 of 2, event alpha = 0.05132). Report alpha = 0.007498. Individual comparison alpha = 0.001254. Comparing 6 points to limit.

Constituent: Sulfate Analysis Run 6/4/2025 4:34 AM View: Appendix III Interwell

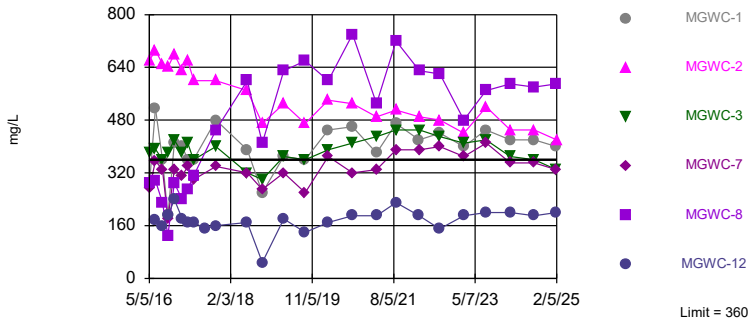
Plant McIntosh Client: Southern Company Data: McIntosh AP-1

Sanitas™ v.10.0.26 Software licensed to Groundwater Stats Consulting. UG

Exceeds Limit: MGWC-1, MGWC-2, MGWC -8

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 110 background values. Annual per-constituent alpha = 0.001967. Individual comparison alpha = 0.0001641 (1 of 2). Comparing 6 points to limit.

Constituent: TDS Analysis Run 6/4/2025 4:34 AM View: Appendix III Interwell

Plant McIntosh Client: Southern Company Data: McIntosh AP-1

Prediction Limit

Constituent: Boron (mg/L) Analysis Run 6/4/2025 4:37 AM View: Appendix III Interwell

Plant McIntosh Client: Southern Company Data: McIntosh AP-1

	MGWA-5 (bg)	MGWC-8	MGWA-10 (bg)	MGWA-6 (bg)	MGWC-7	MGWC-1	MGWC-3	MGWC-2	MGWA-11 (bg)
5/5/2016	<0.08	0.976	<0.08	0.157	0.855				
5/6/2016						0.567	0.926	3.78	
6/20/2016	0.013 (J)		0.011 (J)						0.017 (J)
6/21/2016		0.862		0.124	1.15	1.55	0.792	3.1	
8/15/2016	0.023 (J)	0.8	0.022 (J)	0.18	1.3				0.032 (J)
8/16/2016						0.85	1	2.8	
9/28/2016	<0.08	0.8	0.023 (J)	0.17	1.3	0.7			0.021 (J)
9/29/2016							1	3.1	
11/16/2016	<0.08	0.98	<0.08	0.17	1.3	0.88	1.2	3.9	<0.08
1/16/2017			0.021 (J)						
1/17/2017	<0.08	1.6		0.17	1.3		1.3		<0.08
1/18/2017								3.7	
1/19/2017						1.5			
3/2/2017	<0.08	1.8	<0.08	0.14	1.3	0.89	1.3	3.3	<0.08
4/18/2017	<0.08	2.4	<0.08	0.14	1.5	1.1	1.8		<0.08
4/19/2017								3.7	
4/25/2017									
7/13/2017									<0.08
10/10/2017	<0.08	4.2	0.021 (J)	0.12	1.4	1.9	1.7	3.4	0.025 (J)
6/12/2018	<0.08		<0.08						<0.08
6/13/2018		4.9		0.11	1.4	1.2	1.6	3	
10/9/2018	<0.08		<0.08						<0.08
10/10/2018		5.1		0.096	1.4	1.2	1.6	3	
1/29/2019									
3/25/2019	<0.08		<0.08						<0.08
3/26/2019		5.1		0.079	1.5	1.3	1.5	2.6	
9/10/2019	<0.08	4.8	<0.08	0.097	1.5	1.5	1.5	2.4	<0.08
3/9/2020			0.045 (J)						<0.08
3/10/2020	<0.08	4		0.051 (J)	1.4	1.9	1.3	2.3	
9/16/2020	<0.08		<0.08	0.041 (J)				2.1	0.045 (J)
9/17/2020		4.4			1.4	1.8	1.2		
3/23/2021			<0.08	<0.08					0.047 (J)
3/24/2021	<0.08	3.6			1.5	0.57	1.2	2.4	
8/23/2021			<0.08						0.043 (J)
8/24/2021	<0.08			<0.08			0.97	2.2	
8/25/2021		4.2			1.6	1.7			
2/22/2022	<0.08		<0.08	<0.08		1.7			<0.08
2/23/2022		4.1			2.1		0.83	2	
8/2/2022	<0.08		<0.08	<0.08					<0.08
8/3/2022					2.3	1.7	0.76		
8/4/2022		4.3						1.9	
2/7/2023	0.022 (J)		<0.08	0.028 (J)			0.63		0.028 (J)
2/8/2023		3.9			2.1	1.5		1.8	
8/1/2023	0.037 (J)	4.3	0.035 (J)	0.057 (J)		1.6	0.65		0.045 (J)
8/2/2023					2.2			1.8	
2/6/2024	0.044 (J)		<0.08	0.026 (J)	2.4	1.6			0.047 (J)
2/7/2024		5.1					0.59	1.9	
8/13/2024	0.026 (J)		<0.08	0.031 (J)		1.7			0.026 (J)
8/14/2024		5.1			2.1		0.42	1.7	
2/3/2025	0.081			0.028 (J)					
2/4/2025		5.9	<0.08		2.4	1.6	0.45		0.035 (J)
2/5/2025								1.7	

ND substitution: RL or RL/2 if <15% NDs.

Prediction Limit

Constituent: Boron (mg/L) Analysis Run 6/4/2025 4:37 AM View: Appendix III Interwell

Plant McIntosh Client: Southern Company Data: McIntosh AP-1

	MGWC-12	MGWA-6A (bg)
5/5/2016		
5/6/2016		
6/20/2016		
6/21/2016	0.0201 (J)	
8/15/2016		
8/16/2016	0.055	
9/28/2016		
9/29/2016	<0.08	
11/16/2016	0.055	
1/16/2017		
1/17/2017		
1/18/2017	0.097	
1/19/2017		
3/2/2017	0.064	
4/18/2017		
4/19/2017		
4/25/2017	<0.08	
7/13/2017	<0.08	
10/10/2017	<0.08	
6/12/2018	<0.08	
6/13/2018		
10/9/2018		
10/10/2018	0.034 (J)	
1/29/2019		<0.08
3/25/2019		<0.08
3/26/2019	0.032 (J)	
9/10/2019	0.06 (J)	0.04 (J)
3/9/2020		
3/10/2020	<0.08	<0.08
9/16/2020	<0.08	0.04 (J)
9/17/2020		
3/23/2021		<0.08
3/24/2021	<0.08	
8/23/2021		
8/24/2021		<0.08
8/25/2021	0.11	
2/22/2022	<0.08	<0.08
2/23/2022		
8/2/2022	0.071 (J)	<0.08
8/3/2022		
8/4/2022		
2/7/2023	0.067 (J)	0.039 (J)
2/8/2023		
8/1/2023		0.038 (J)
8/2/2023	0.062 (J)	
2/6/2024		0.084
2/7/2024	0.023 (J)	
8/13/2024		0.033 (J)
8/14/2024	0.029 (J)	
2/3/2025		
2/4/2025	0.03 (J)	0.03 (J)
2/5/2025		

ND substitution: RL or RL/2 if <15% NDs.

Prediction Limit

Constituent: Calcium (mg/L) Analysis Run 6/4/2025 4:37 AM View: Appendix III Interwell

Plant McIntosh Client: Southern Company Data: McIntosh AP-1

	MGWA-5 (bg)	MGWC-8	MGWA-10 (bg)	MGWA-6 (bg)	MGWC-7	MGWC-1	MGWC-3	MGWC-2	MGWA-11 (bg)
5/5/2016	27	41.2	8.83	105	45				
5/6/2016						92.5	109	131	
6/20/2016	29.4		8.1						35.5
6/21/2016		44.7		91.2	52.8	119	99.7	119	
8/15/2016	26	27	6.1	94	50				34
8/16/2016						84	97	120	
9/28/2016	31	32	7.2	110	58	92			38
9/29/2016							100	140	
11/16/2016	26	27	5.2	98	50	83	94	120	33
1/16/2017			3.8						
1/17/2017	29	32		100	52		100		34
1/18/2017								130	
1/19/2017						110			
3/2/2017	28	33	5.4	100	52	89	99	120	35
4/18/2017	27	59	5	110	56	100	120		33
4/19/2017								120	
4/25/2017									
7/13/2017									30
10/10/2017	31	74	4.8	110	56	120	110	130	39
6/12/2018	25		4.8						26
6/13/2018		84		100	51	100	100	120	
10/9/2018	29		4.5						29
10/10/2018		87		100	51	100	96	120	
12/5/2018					49				28
1/29/2019									
3/25/2019	27		4.6						37
3/26/2019		96		100	52	100	99	110	
9/10/2019	27	97	4.9	110	53	110	99	110	36
3/9/2020			4						32
3/10/2020	29	100		100	55	120	110	110	
9/16/2020	28		6.8	100				110	30
9/17/2020		100			48	110	110		
3/23/2021			4	110					42
3/24/2021	28	120			51	100	120	120	
8/23/2021			5.8						34
8/24/2021	27			100			110	110	
8/25/2021		96			59	120			
2/22/2022	25		3.3	97		100			36
2/23/2022		97			61		120	100	
8/2/2022	26		3.1	110					36
8/3/2022					66	110	110		
8/4/2022		100						98	
2/7/2023	26		3.6	110			110		34
2/8/2023		110			65	110		100	
8/1/2023	28	120	3.9	110		110	120		39
8/2/2023					57			100	
2/6/2024	26		3.9	100	56	110			40
2/7/2024		120					100	110	
8/13/2024	28		4.2	110		120			35
8/14/2024		130			60		110	110	
2/3/2025	29			110					
2/4/2025		130	3.2		61	120	110		44

Prediction Limit

Constituent: Calcium (mg/L) Analysis Run 6/4/2025 4:37 AM View: Appendix III Interwell

Plant McIntosh Client: Southern Company Data: McIntosh AP-1

	MGWA-5 (bg)	MGWC-8	MGWA-10 (bg)	MGWA-6 (bg)	MGWC-7	MGWC-1	MGWC-3	MGWC-2	MGWA-11 (bg)
2/5/2025								100	

Prediction Limit

Constituent: Calcium (mg/L) Analysis Run 6/4/2025 4:37 AM View: Appendix III Interwell

Plant McIntosh Client: Southern Company Data: McIntosh AP-1

	MGWC-12	MGWA-6A (bg)
5/5/2016		
5/6/2016		
6/20/2016		
6/21/2016	25.5	
8/15/2016		
8/16/2016	25	
9/28/2016		
9/29/2016	30	
11/16/2016	26	
1/16/2017		
1/17/2017		
1/18/2017	32	
1/19/2017		
3/2/2017	26	
4/18/2017		
4/19/2017		
4/25/2017	26	
7/13/2017	26	
10/10/2017	28	
6/12/2018	30	
6/13/2018		
10/9/2018		
10/10/2018	35	
12/5/2018		
1/29/2019		95.1
3/25/2019		89
3/26/2019	33	
9/10/2019	33	86
3/9/2020		
3/10/2020	30	90
9/16/2020	25	93
9/17/2020		
3/23/2021		97
3/24/2021	32	
8/23/2021		
8/24/2021		83
8/25/2021	31	
2/22/2022	35	90
2/23/2022		
8/2/2022	34	94
8/3/2022		
8/4/2022		
2/7/2023	30	99
2/8/2023		
8/1/2023		110
8/2/2023	31	
2/6/2024		100
2/7/2024	29	
8/13/2024		110
8/14/2024	28	
2/3/2025		
2/4/2025	36	110

Prediction Limit

Constituent: Calcium (mg/L) Analysis Run 6/4/2025 4:37 AM View: Appendix III Interwell

Plant McIntosh Client: Southern Company Data: McIntosh AP-1

	MGWC-12	MGWA-6A (bg)
2/5/2025		

Prediction Limit

Constituent: Chloride (mg/L) Analysis Run 6/4/2025 4:37 AM View: Appendix III Interwell

Plant McIntosh Client: Southern Company Data: McIntosh AP-1

	MGWA-5 (bg)	MGWC-8	MGWA-10 (bg)	MGWA-6 (bg)	MGWC-7	MGWC-1	MGWC-3	MGWC-2	MGWA-11 (bg)
5/5/2016	6.51	10.1	7.35	9.67	13				
5/6/2016						13.2	12.5	41	
6/20/2016	5.9		7						4.3
6/21/2016		10		9.2	13	15	13	20	
8/15/2016	6.4	9.5	7.5	10	14				4.1
8/16/2016						14	13	20	
9/28/2016	6.1	9.2	7	10	13	14			3.9
9/29/2016							13	19	
11/16/2016	6.1	9.5	7.5	10	13	14	14	20	4.1
1/16/2017			7.7						
1/17/2017	5.7	10		9.4	13		14		3.9
1/18/2017								18	
1/19/2017						14			
3/2/2017	5.3	9.3	6.9	8.6	13	13	13	18	3.5
4/18/2017	5.3	10	6.8	8.9	12	13	13		3.7
4/19/2017								17	
4/25/2017									
7/13/2017									4.2
10/10/2017	5.3	11	6.9	8.3	12	14	14	16	3.4
6/12/2018	5.1		6.7						4.6
6/13/2018		11		7	12	13	13	16	
10/9/2018	5.6		7.1						4.5
10/10/2018		10		6.9	12	14	14	15	
12/5/2018					11				4.1
1/29/2019									
3/25/2019	4.7		6.8						3.4
3/26/2019		11		5.8	11	13	14	14	
9/10/2019	5.1	10	7	6	9.9	13	13	13	3.5
3/9/2020			7.4						4.5
3/10/2020	5.4	12		5.1	10	14	15	12	
9/16/2020	5.2		7	4.3				12	4.6
9/17/2020		10			9.6	14	14		
3/23/2021			7.8	4					3.8
3/24/2021	5.5	18			10	14	14	13	
8/23/2021			7.3						4.4
8/24/2021	5.5			4			14	13	
8/25/2021		11			9.9	14			
2/22/2022	5.1		7.1	4		13			3.1
2/23/2022		11			9.8		14	13	
8/2/2022	3.5		7.4	2.6					3.4
8/3/2022					11	13	13		
8/4/2022		13						12	
2/7/2023	4.7		7	3.1			11		4.2
2/8/2023		13			11	12		11	
8/1/2023	5.2	13	7.4	3.3		13	12		3.3
8/2/2023					11			12	
2/6/2024	4.9		7.2	3.1	10	12			3.3
2/7/2024		13					11	12	
8/13/2024	5.2		7.6	3.4		13			4.9
8/14/2024		13			11		11	12	
2/3/2025	5.4			3.4					
2/4/2025		11	8		10	20	19		3.8

Prediction Limit

Constituent: Chloride (mg/L) Analysis Run 6/4/2025 4:37 AM View: Appendix III Interwell

Plant McIntosh Client: Southern Company Data: McIntosh AP-1

	MGWA-5 (bg)	MGWC-8	MGWA-10 (bg)	MGWA-6 (bg)	MGWC-7	MGWC-1	MGWC-3	MGWC-2	MGWA-11 (bg)
2/5/2025								12	

Prediction Limit

Constituent: Chloride (mg/L) Analysis Run 6/4/2025 4:37 AM View: Appendix III Interwell

Plant McIntosh Client: Southern Company Data: McIntosh AP-1

	MGWC-12	MGWA-6A (bg)
5/5/2016		
5/6/2016		
6/20/2016		
6/21/2016	4.4	
8/15/2016		
8/16/2016	4.6	
9/28/2016		
9/29/2016	4.4	
11/16/2016	4.5	
1/16/2017		
1/17/2017		
1/18/2017	4.2	
1/19/2017		
3/2/2017	3.9	
4/18/2017		
4/19/2017		
4/25/2017	4	
7/13/2017	4	
10/10/2017	4	
6/12/2018	4	
6/13/2018		
10/9/2018		
10/10/2018	4.2	
12/5/2018		
1/29/2019		4.51
3/25/2019		4.4
3/26/2019	3.8	
9/10/2019	4.1	4.2
3/9/2020		
3/10/2020	4.1	4
9/16/2020	5.1	3.7
9/17/2020		
3/23/2021		4.1
3/24/2021	5.7	
8/23/2021		
8/24/2021		3.9
8/25/2021	4.9	
2/22/2022	4	3.3
2/23/2022		
8/2/2022	4.9	2.8
8/3/2022		
8/4/2022		
2/7/2023	4.2	3.2
2/8/2023		
8/1/2023		3.4
8/2/2023	4.5	
2/6/2024		3.2
2/7/2024	4.9	
8/13/2024		3.5
8/14/2024	5.5	
2/3/2025		
2/4/2025	5.7	3.5

Prediction Limit

Constituent: Chloride (mg/L) Analysis Run 6/4/2025 4:37 AM View: Appendix III Interwell

Plant McIntosh Client: Southern Company Data: McIntosh AP-1

	MGWC-12	MGWA-6A (bg)
2/5/2025		

Prediction Limit

Constituent: Fluoride (mg/L) Analysis Run 6/4/2025 4:37 AM View: Appendix III Interwell

Plant McIntosh Client: Southern Company Data: McIntosh AP-1

	MGWA-5 (bg)	MGWC-8	MGWA-10 (bg)	MGWA-6 (bg)	MGWC-7	MGWC-3	MGWC-2	MGWC-1	MGWA-11 (bg)
5/5/2016	0.132 (J)	0.103 (J)	0.046 (J)	0.091 (J)	0.394				
5/6/2016						0.086 (J)	0.088 (J)	0.28 (J)	
6/20/2016	0.05 (J)		<0.1						0.06 (J)
6/21/2016		0.1 (J)		0.08 (J)	0.49	0.23 (J)	0.19 (J)	0.36	
8/15/2016	0.1 (J)	0.11 (J)	<0.1	<0.1	0.44				0.1 (J)
8/16/2016						<0.1	0.087 (J)	0.27	
9/28/2016	0.11 (J)	0.1 (J)	<0.1	0.084 (J)	0.4			0.26	0.097 (J)
9/29/2016						0.082 (J)	<0.1		
11/16/2016	0.093 (J)	0.091 (J)	<0.1	0.084 (J)	0.36	0.087 (J)	<0.1	0.24	0.12 (J)
1/16/2017			<0.1						
1/17/2017	0.095 (J)	<0.1		0.099 (J)	0.2	0.086 (J)			0.11 (J)
1/18/2017							<0.1		
1/19/2017								0.22	
3/2/2017	0.16 (J)	0.16 (J)	0.12 (J)	0.15 (J)	0.36	0.15 (J)	0.15 (J)	0.27	0.18 (J)
4/18/2017	<0.1	<0.1	<0.1	<0.1	0.29	<0.1		0.2	0.11 (J)
4/19/2017							<0.1		
4/25/2017									
7/13/2017									0.12 (J)
10/10/2017	<0.1	<0.1	<0.1	<0.1	0.28	<0.1	<0.1	0.18 (J)	0.086 (J)
3/29/2018	0.084 (J)		<0.1	<0.1	0.23			0.16 (J)	<0.1
3/30/2018		0.088 (J)				<0.1	<0.1		
6/12/2018	<0.1		<0.1						0.16 (J)
6/13/2018		0.15 (J)		<0.1	0.2	<0.1	<0.1	0.14 (J)	
10/9/2018	0.086 (J)		<0.1						0.16 (J)
10/10/2018		0.11 (J)		<0.1	0.23	<0.1	0.085 (J)	0.17 (J)	
1/29/2019									
3/25/2019	0.072 (J)		<0.1						0.087 (J)
3/26/2019		0.088 (J)		0.065 (J)	0.19 (J)	0.072 (J)	0.076 (J)	0.16 (J)	
9/10/2019	0.068 (J)	0.083 (J)	0.044 (J)	0.076 (J)	0.15	0.073 (J)	0.07 (J)	0.098 (J)	0.075 (J)
3/9/2020			0.061 (J)						0.19
3/10/2020	0.055 (J)	0.084 (J)		0.045 (J)	0.18	0.058 (J)	0.05 (J)	0.086 (J)	
9/16/2020	0.08 (J)		0.042 (J)	0.076 (J)			0.076 (J)		0.18
9/17/2020		0.11			0.25	0.083 (J)		0.15	
1/25/2021			<0.1						
1/26/2021	0.087 (J)	0.14		0.072 (J)	0.28	0.083 (J)	0.068 (J)	0.15	0.073 (J)
3/23/2021			0.038 (J)	0.082 (J)					0.081 (J)
3/24/2021	0.091 (J)	0.11			0.35	0.092 (J)	0.11	0.27	
8/23/2021			0.048 (J)						0.12
8/24/2021	0.1			0.1		0.11	0.095 (J)		
8/25/2021		0.038 (J)			0.15			0.097 (J)	
2/22/2022	<0.1		<0.1	0.034 (J)				0.047 (J)	<0.1
2/23/2022		0.05 (J)			0.22	0.086 (J)	0.075 (J)		
8/2/2022	0.066 (J)		<0.1	0.055 (J)					0.065 (J)
8/3/2022					0.2	0.079 (J)		0.12	
8/4/2022		0.087 (J)					0.072 (J)		
2/7/2023	0.069 (J)		<0.1	0.06 (J)		0.076 (J)			0.07 (J)
2/8/2023		0.084 (J)			0.14		0.074 (J)	0.11	
8/1/2023	0.094 (J)	0.11	<0.1	0.084 (J)		0.1		0.15	0.094 (J)
8/2/2023					0.2		0.087 (J)		
2/6/2024	0.079 (J)		<0.1	0.069 (J)	0.17			0.12	0.071 (J)
2/7/2024		0.063 (J)				0.089 (J)	0.081 (J)		
8/13/2024	<0.1		<0.1	<0.1				<0.1	<0.1

ND substitution: RL or RL/2 if <15% NDs.

Prediction Limit

Constituent: Fluoride (mg/L) Analysis Run 6/4/2025 4:37 AM View: Appendix III Interwell

Plant McIntosh Client: Southern Company Data: McIntosh AP-1

	MGWA-5 (bg)	MGWC-8	MGWA-10 (bg)	MGWA-6 (bg)	MGWC-7	MGWC-3	MGWC-2	MGWC-1	MGWA-11 (bg)
8/14/2024		<0.1			<0.1	<0.1	<0.1		
2/3/2025	<0.1			<0.1					
2/4/2025		<0.1	<0.1		<0.1	<0.1		<0.1	<0.1
2/5/2025							<0.1		

ND substitution: RL or RL/2 if <15% NDs.

Prediction Limit

Constituent: Fluoride (mg/L) Analysis Run 6/4/2025 4:37 AM View: Appendix III Interwell

Plant McIntosh Client: Southern Company Data: McIntosh AP-1

	MGWC-12	MGWA-6A (bg)
5/5/2016		
5/6/2016		
6/20/2016		
6/21/2016	0.14 (J)	
8/15/2016		
8/16/2016	0.29	
9/28/2016		
9/29/2016	0.26	
11/16/2016	0.25	
1/16/2017		
1/17/2017		
1/18/2017	0.26	
1/19/2017		
3/2/2017	0.28	
4/18/2017		
4/19/2017		
4/25/2017	0.25	
7/13/2017	0.21	
10/10/2017	0.22	
3/29/2018	0.23	
3/30/2018		
6/12/2018	0.23	
6/13/2018		
10/9/2018		
10/10/2018	0.25	
1/29/2019		<0.1
3/25/2019		0.067 (J)
3/26/2019	0.22	
9/10/2019	0.2	0.052 (J)
3/9/2020		
3/10/2020	0.15	0.048 (J)
9/16/2020	0.26	0.078 (J)
9/17/2020		
1/25/2021		
1/26/2021	0.23	0.071 (J)
3/23/2021		0.096 (J)
3/24/2021	0.27	
8/23/2021		
8/24/2021		0.11
8/25/2021	0.19	
2/22/2022	0.093 (J)	<0.1
2/23/2022		
8/2/2022	0.074 (J)	0.052 (J)
8/3/2022		
8/4/2022		
2/7/2023	0.25	0.064 (J)
2/8/2023		
8/1/2023		0.081 (J)
8/2/2023	0.25	
2/6/2024		0.074 (J)
2/7/2024	0.29	
8/13/2024		<0.1

ND substitution: RL or RL/2 if <15% NDs.

Prediction Limit

Constituent: Fluoride (mg/L) Analysis Run 6/4/2025 4:37 AM View: Appendix III Interwell

Plant McIntosh Client: Southern Company Data: McIntosh AP-1

	MGWC-12	MGWA-6A (bg)
8/14/2024	0.12	
2/3/2025		
2/4/2025	0.043 (J)	<0.1
2/5/2025		

ND substitution: RL or RL/2 if <15% NDs.

Prediction Limit

Constituent: pH, Field (SU) Analysis Run 6/4/2025 4:37 AM View: Appendix III Interwell

Plant McIntosh Client: Southern Company Data: McIntosh AP-1

	MGWA-5 (bg)	MGWA-10 (bg)	MGWC-7	MGWC-8	MGWA-6 (bg)	MGWC-3	MGWC-2	MGWC-1	MGWA-11 (bg)
5/5/2016	7.4	5.94	7.81	5.96	7.13				
5/6/2016						6.85	7.41	6.64	
6/20/2016	7.63	5.84							7.82
6/21/2016			7.2	6	7.25	6.98	7.41	6.99	
8/15/2016	7.54	5.65	7.04	5.26	7.04				7.52
8/16/2016						6.73	7.33	6.48	
9/28/2016	7.45	5.72	7	5.66	7.09			6.7	7.66
9/29/2016						6.81	7.42		
11/16/2016	7.39	5.65	6.73	5.33	7.6	6.69	7.87	6.66	7.51
1/16/2017		5.52							
1/17/2017	7.23		6.61	5.24	6.99	6.77			7.52
1/18/2017							7.49		
1/19/2017								6.81	
3/2/2017	7.55	5.53	6.62	5.21	6.95	6.79	7.37	6.75	7.5
4/18/2017	7.43	5.64	6.7	5.85	7.02	6.77		6.93	7.75
4/19/2017							7.48		
4/25/2017									
7/13/2017									7.72
10/10/2017	7.47	5.51	6.48	5.6	7.27	7	7.29	6.99	7.42
10/11/2017		6.11							6.35
3/29/2018	7.19	5.35	6.46		6.95			6.82	7.42
3/30/2018				5.16		6.68	7.31		
6/12/2018	7.55	6.23							8.02
6/13/2018			6.24	5.79	7.08	6.83	7.37	7.01	
10/9/2018	7.8	5.62							7.79
10/10/2018			6.12	5.15	7.01	6.69	7.41	7.04	
12/4/2018	7.26								
12/5/2018		5.44	6.02	5.11	6.81				7.43
12/6/2018						6.56	7.28	6.76	
1/28/2019		5.49							7.4
1/29/2019	7.63		5.93	5.46	6.55	6.42	7.03	6.87	
3/25/2019	7.44	5.27							7.29
3/26/2019	7.44		5.96	5.19	6.57	6.68	7.29	7.01	
9/10/2019	7.41	5.97	6.03	5.1	6.99	6.67	7.26	7.09	7.54
1/28/2020	7.46	5.78	6.61		7.17				7.4
1/29/2020				5.76		6.68	7.3	7.19	
3/9/2020		5.46							7.58
3/10/2020	7.3		6.54	5.5	7	6.87	7.3	7.11	
9/16/2020	7.38	6.37			6.98		7.16		7.89
9/17/2020			6.39	5.22		6.68		6.95	
12/7/2020					7.2				
12/8/2020						7.04		7.41	
1/25/2021		4.87							
1/26/2021	6.86		6.27	6.2	7.19	6.53	7.57	7.43	7.43
3/23/2021		5			6.74				7.06
3/24/2021	6.88		6.26	6.71		6.73	7.24	7.14	
8/23/2021		6.16							8.12
8/24/2021	7.78				7.11	6.92	7.42		
8/25/2021			6.85	5.26				7.27	
10/26/2021				5.99					
2/22/2022	7.57	5.38			7.14			7.32	7.6
2/23/2022			6.91	6.22		6.98	7.44		

Prediction Limit

Constituent: pH, Field (SU) Analysis Run 6/4/2025 4:37 AM View: Appendix III Interwell

Plant McIntosh Client: Southern Company Data: McIntosh AP-1

	MGWA-5 (bg)	MGWA-10 (bg)	MGWC-7	MGWC-8	MGWA-6 (bg)	MGWC-3	MGWC-2	MGWC-1	MGWA-11 (bg)
4/18/2022						6.84			
8/2/2022	7.45	5.41			7.1				7.57
8/3/2022			6.86			6.91		7.23	
8/4/2022				6.5			7.37		
2/7/2023	7.85	5.46			7.13	7.01			7.72
2/8/2023			7.43	6.76			7.44	7.28	
8/1/2023	7.52	5.46		6.77	7.14	7.09		7.3	7.61
8/2/2023			6.9				7.31		
2/6/2024	7.67	5.52	7		7.07			7.47	7.86
2/7/2024				7.81		7.49	7.71		
8/13/2024	7.67	5.43			7.27			7.14	7.72
8/14/2024			7.5	7.81		7.14	7.73		
2/3/2025	7.67				7.17				
2/4/2025		5.4	6.71	7.67		6.9		7.2	7.61
2/5/2025							7.66		

Prediction Limit

Constituent: pH, Field (SU) Analysis Run 6/4/2025 4:37 AM View: Appendix III Interwell
Plant McIntosh Client: Southern Company Data: McIntosh AP-1

	MGWC-12	MGWA-6A (bg)
5/5/2016		
5/6/2016		
6/20/2016		
6/21/2016	7.61	
8/15/2016		
8/16/2016	7.17	
9/28/2016		
9/29/2016	6.97	
11/16/2016	7.03	
1/16/2017		
1/17/2017		
1/18/2017	7.01	
1/19/2017		
3/2/2017	7.02	
4/18/2017		
4/19/2017		
4/25/2017	7.02	
7/13/2017	7.17	
10/10/2017	7.24	
10/11/2017		
3/29/2018	6.93	
3/30/2018		
6/12/2018	7.29	
6/13/2018		
10/9/2018		
10/10/2018	7.12	
12/4/2018		
12/5/2018	6.73	
12/6/2018		
1/28/2019		6.93
1/29/2019	8.02	6.93
3/25/2019		7.1
3/26/2019	7.14	
9/10/2019	10.96 (O)	7.15
1/28/2020	7.25	7.36
1/29/2020		
3/9/2020		
3/10/2020	7.53	7.04
9/16/2020	11.03 (O)	6.89
9/17/2020		
12/7/2020		
12/8/2020		
1/25/2021		
1/26/2021	6.7	7.17
3/23/2021		6.56
3/24/2021	7.15	
8/23/2021		
8/24/2021		7.28
8/25/2021	7.44	
10/26/2021		
2/22/2022	7.41	7.2
2/23/2022		

Prediction Limit

Constituent: pH, Field (SU) Analysis Run 6/4/2025 4:37 AM View: Appendix III Interwell

Plant McIntosh Client: Southern Company Data: McIntosh AP-1

	MGWC-12	MGWA-6A (bg)
4/18/2022		
8/2/2022	7.06	7.27
8/3/2022		
8/4/2022		
2/7/2023	6.95	7.24
2/8/2023		
8/1/2023		7.2
8/2/2023	7.2	
2/6/2024		7.23
2/7/2024	6.83	
8/13/2024		7.23
8/14/2024	7.37	
2/3/2025		
2/4/2025	6.75	7.42
2/5/2025		

Prediction Limit

Constituent: Sulfate (mg/L) Analysis Run 6/4/2025 4:37 AM View: Appendix III Interwell

Plant McIntosh Client: Southern Company Data: McIntosh AP-1

	MGWA-5 (bg)	MGWC-8	MGWA-10 (bg)	MGWA-6 (bg)	MGWC-7	MGWC-1	MGWC-3	MGWC-2	MGWA-11 (bg)
5/5/2016	4.47	144	2.46	17.8	116				
5/6/2016						106	94.2	445	
6/20/2016	7.7		2.5						1
6/21/2016		160		17	170	210	95	290	
8/15/2016	7.5	120	1.9	20	170				0.73 (J)
8/16/2016						120	88	270	
9/28/2016	7.8	130	1.9	21	170	110			<1
9/29/2016							94	280	
11/16/2016	6.7	130	1.7	20	170	130	97	280	<1
1/16/2017			<1						
1/17/2017	6.7	150		19	180		100		<1
1/18/2017								280	
1/19/2017						160			
3/2/2017	5.6	160	1.4	15	180	130	100	240	<1
4/18/2017	5.1	180	1.3	14	160	120	91		<1
4/19/2017								250	
4/25/2017									
7/13/2017									1.4
10/10/2017	4.9	260	1.1	11	180	170	110	240	0.87 (J)
6/12/2018	3.8		0.82 (J)						4.1
6/13/2018		330		8.7	180	130	110	220	
10/9/2018	6.7		0.82 (J)						2.2
10/10/2018		410		8.7	190	140	110	220	
12/5/2018					190				1.2
1/29/2019									
3/25/2019	3.4		1.1						1.3
3/26/2019		420		6.3	180	130	110	190	
9/10/2019	4.7	420	1.1	5.6	180	140	110	180	1.8
3/9/2020			4.2						3.4
3/10/2020	5.2	370		5	170	140	130	170	
9/16/2020	3.2		0.69 (J)	2.7				160	3
9/17/2020		380			160	150	120		
3/23/2021			<1	3.2					1.4
3/24/2021	3.5	280			180	120	130	180	
8/23/2021			<1						3.4
8/24/2021	3.6			3.5			130	160	
8/25/2021		420			180	140			
2/22/2022	3.2		<1	5.4		150			1.1
2/23/2022		390			260		150	180	
8/2/2022	2.7		<1	2.3					0.8 (J)
8/3/2022					220	140	130		
8/4/2022		350						150	
2/7/2023	2.5		<1	2.3			120		3.3
2/8/2023		280			220	140		150	
8/1/2023	2.9	280	0.56 (J)	3.2		140	110		1
8/2/2023					200			150	
2/6/2024	2.4		<1	2.8	200	140			0.82 (J)
2/7/2024		310					94	150	
8/13/2024	3.3		0.59 (J)	4.4		140			3.3
8/14/2024		230			200		80	140	
2/3/2025	3.4			4.6					
2/4/2025		380	<1		230	140	73		<1

ND substitution: RL or RL/2 if <15% NDs.

Prediction Limit

Constituent: Sulfate (mg/L) Analysis Run 6/4/2025 4:37 AM View: Appendix III Interwell

Plant McIntosh Client: Southern Company Data: McIntosh AP-1

	MGWA-5 (bg)	MGWC-8	MGWA-10 (bg)	MGWA-6 (bg)	MGWC-7	MGWC-1	MGWC-3	MGWC-2	MGWA-11 (bg)
2/5/2025								150	

Prediction Limit

Constituent: Sulfate (mg/L) Analysis Run 6/4/2025 4:37 AM View: Appendix III Interwell

Plant McIntosh Client: Southern Company Data: McIntosh AP-1

	MGWC-12	MGWA-6A (bg)
5/5/2016		
5/6/2016		
6/20/2016		
6/21/2016	4	
8/15/2016		
8/16/2016	2.8	
9/28/2016		
9/29/2016	<1	
11/16/2016	3	
1/16/2017		
1/17/2017		
1/18/2017	4.1	
1/19/2017		
3/2/2017	4.6	
4/18/2017		
4/19/2017		
4/25/2017	4.4	
7/13/2017	4.8	
10/10/2017	4.9	
6/12/2018	4.1	
6/13/2018		
10/9/2018		
10/10/2018	2.5	
12/5/2018		
1/29/2019		7.08
3/25/2019		1.8
3/26/2019	2.9	
9/10/2019	2.5	0.6 (J)
3/9/2020		
3/10/2020	7.8	2.4
9/16/2020	4.4	1
9/17/2020		
3/23/2021		1.7
3/24/2021	7.1	
8/23/2021		
8/24/2021		3.3
8/25/2021	6.6	
2/22/2022	4.8	2.1
2/23/2022		
8/2/2022	3.1	2.1
8/3/2022		
8/4/2022		
2/7/2023	4.7	1.6
2/8/2023		
8/1/2023		4
8/2/2023	4.6	
2/6/2024		2.4
2/7/2024	8.2	
8/13/2024		4.2
8/14/2024	8.9	
2/3/2025		
2/4/2025	11	4

ND substitution: RL or RL/2 if <15% NDs.

Prediction Limit

Constituent: Sulfate (mg/L) Analysis Run 6/4/2025 4:37 AM View: Appendix III Interwell
Plant McIntosh Client: Southern Company Data: McIntosh AP-1

	MGWC-12	MGWA-6A (bg)
2/5/2025		

Prediction Limit

Constituent: TDS (mg/L) Analysis Run 6/4/2025 4:37 AM View: Appendix III Interwell

Plant McIntosh Client: Southern Company Data: McIntosh AP-1

	MGWA-5 (bg)	MGWC-8	MGWA-10 (bg)	MGWA-6 (bg)	MGWC-7	MGWC-1	MGWC-3	MGWC-2	MGWA-11 (bg)
5/5/2016	129	287	78	281	272				
5/6/2016						282	380	661	
6/20/2016	156		80						188
6/21/2016		297		303	356	516	392	692	
8/15/2016	160	230	58	310	330				180
8/16/2016						360	360	650	
9/28/2016	91	130	29	170	180	190			100
9/29/2016							380	640	
11/16/2016	250	290	140	340	330	410	420	680	270
1/16/2017			36						
1/17/2017	140	240		310	310		380		170
1/18/2017								630	
1/19/2017						400			
3/2/2017	170	270	78	330	340	360	410	660	210
4/18/2017	140	310	16	290	300	360	360		160
4/19/2017								600	
4/25/2017									
7/13/2017									150
10/10/2017	190	450	78	310	340	480	400	600	210
6/12/2018	180		62						150
6/13/2018		600		230	320	390	320	570	
10/9/2018	170		68						150
10/10/2018		410		300	270	260	300	470	
1/29/2019									
3/25/2019	150		54						210
3/26/2019		630		290	320	370	370	530	
9/10/2019	110	660	14	260	260	360	360	470	160
3/9/2020			56						190
3/10/2020	170	600		300	370	450	390	540	
9/16/2020	150		44	300				530	150
9/17/2020		740			320	460	410		
3/23/2021			53	300					220
3/24/2021	150	530			330	380	430	490	
8/23/2021			55						200
8/24/2021	160			300			450	510	
8/25/2021		720			390	470			
2/22/2022	150		38	300		420			210
2/23/2022		630			390		450	490	
8/2/2022	270		65	200					210
8/3/2022					400	440	430		
8/4/2022		620						480	
2/7/2023	150		61	290			410		190
2/8/2023		480			370	400		440	
8/1/2023	170	570	57	330		450	420		300
8/2/2023					410			520	
2/6/2024	150		57	280	350	420			210
2/7/2024		590					370	450	
8/13/2024	150		63	290		420			200
8/14/2024		580			350		360	450	
2/3/2025	150			260					
2/4/2025		590	54		330	400	330		220
2/5/2025								420	

Prediction Limit

Constituent: TDS (mg/L) Analysis Run 6/4/2025 4:37 AM View: Appendix III Interwell

Plant McIntosh Client: Southern Company Data: McIntosh AP-1

	MGWC-12	MGWA-6A (bg)
5/5/2016		
5/6/2016		
6/20/2016		
6/21/2016	177	
8/15/2016		
8/16/2016	160	
9/28/2016		
9/29/2016	190	
11/16/2016	240	
1/16/2017		
1/17/2017		
1/18/2017	180	
1/19/2017		
3/2/2017	170	
4/18/2017		
4/19/2017		
4/25/2017	170	
7/13/2017	150	
10/10/2017	160	
6/12/2018	170	
6/13/2018		
10/9/2018		
10/10/2018	48	
1/29/2019		280
3/25/2019		250
3/26/2019	180	
9/10/2019	140	230
3/9/2020		
3/10/2020	170	260
9/16/2020	190	320
9/17/2020		
3/23/2021		270
3/24/2021	190	
8/23/2021		
8/24/2021		280
8/25/2021	230	
2/22/2022	190	270
2/23/2022		
8/2/2022	150	190
8/3/2022		
8/4/2022		
2/7/2023	190	260
2/8/2023		
8/1/2023		360
8/2/2023	200	
2/6/2024		260
2/7/2024	200	
8/13/2024		270
8/14/2024	190	
2/3/2025		
2/4/2025	200	250
2/5/2025		

FIGURE E.

Appendix III Trend Tests - Significant Results

Plant McIntosh Client: Southern Company Data: McIntosh AP-1 Printed 6/4/2025, 4:41 AM

Constituent	Well	Slope	Calc.	Critical	Sig.	N	%NDs	Normality	Alpha	Method
Boron (mg/L)	MGWA-6 (bg)	-0.0165	-205	-105	Yes	24	16.67	n/a	0.01	NP
Boron (mg/L)	MGWC-1	0.08898	114	105	Yes	24	0	n/a	0.01	NP
Boron (mg/L)	MGWC-2	-0.2194	-217	-105	Yes	24	0	n/a	0.01	NP
Boron (mg/L)	MGWC-3	-0.09977	-111	-105	Yes	24	0	n/a	0.01	NP
Boron (mg/L)	MGWC-7	0.1315	218	105	Yes	24	0	n/a	0.01	NP
Boron (mg/L)	MGWC-8	0.5069	155	105	Yes	24	0	n/a	0.01	NP
Calcium (mg/L)	MGWA-6A (bg)	3.356	53	48	Yes	14	0	n/a	0.01	NP
Calcium (mg/L)	MGWA-10 (bg)	-0.3403	-159	-105	Yes	24	0	n/a	0.01	NP
Calcium (mg/L)	MGWC-1	2.571	114	105	Yes	24	0	n/a	0.01	NP
Calcium (mg/L)	MGWC-8	11.86	225	105	Yes	24	0	n/a	0.01	NP
Chloride (mg/L)	MGWA-5 (bg)	-0.127	-135	-105	Yes	24	0	n/a	0.01	NP
Chloride (mg/L)	MGWA-6 (bg)	-0.9733	-226	-105	Yes	24	0	n/a	0.01	NP
Chloride (mg/L)	MGWA-6A (bg)	-0.2055	-53	-48	Yes	14	0	n/a	0.01	NP
Chloride (mg/L)	MGWC-2	-1.096	-222	-105	Yes	24	0	n/a	0.01	NP
Chloride (mg/L)	MGWC-8	0.3742	149	105	Yes	24	0	n/a	0.01	NP
Sulfate (mg/L)	MGWA-5 (bg)	-0.4863	-183	-105	Yes	24	0	n/a	0.01	NP
Sulfate (mg/L)	MGWA-6 (bg)	-2.13	-198	-105	Yes	24	0	n/a	0.01	NP
Sulfate (mg/L)	MGWA-10 (bg)	-0.1069	-147	-105	Yes	24	33.33	n/a	0.01	NP
Sulfate (mg/L)	MGWC-2	-18.82	-237	-105	Yes	24	0	n/a	0.01	NP
Sulfate (mg/L)	MGWC-7	5.385	162	111	Yes	25	0	n/a	0.01	NP
Sulfate (mg/L)	MGWC-8	24.78	115	105	Yes	24	0	n/a	0.01	NP
TDS (mg/L)	MGWC-2	-27.63	-209	-105	Yes	24	0	n/a	0.01	NP
TDS (mg/L)	MGWC-8	46.42	129	105	Yes	24	0	n/a	0.01	NP

Appendix III Trend Tests - All Results

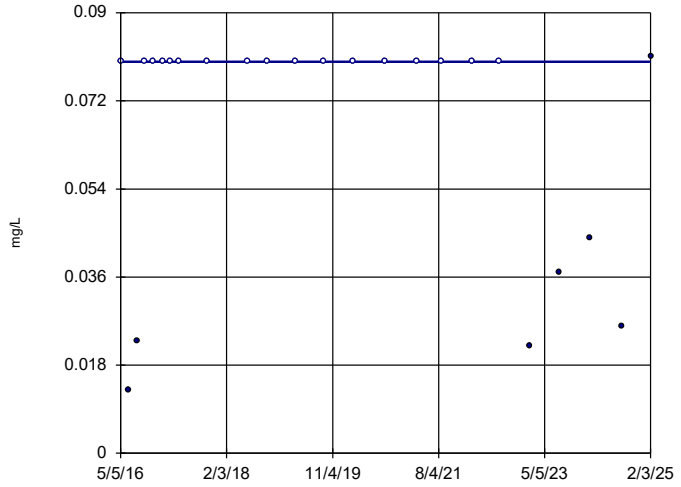
Plant McIntosh Client: Southern Company Data: McIntosh AP-1 Printed 6/4/2025, 4:41 AM

Constituent	Well	Slope	Calc.	Critical	Sig.	N	%NDs	Normality	Alpha	Method
Boron (mg/L)	MGWA-5 (bg)	0	-6	-105	No	24	70.83	n/a	0.01	NP
Boron (mg/L)	**MGWA-6 (bg)**	**-0.0165**	**-205**	**-105**	**Yes**	**24**	**16.67**	**n/a**	**0.01**	**NP**
Boron (mg/L)	MGWA-6A (bg)	-0.0006959	-29	-48	No	14	50	n/a	0.01	NP
Boron (mg/L)	MGWA-10 (bg)	0	67	105	No	24	70.83	n/a	0.01	NP
Boron (mg/L)	MGWA-11 (bg)	0	-24	-105	No	24	50	n/a	0.01	NP
Boron (mg/L)	**MGWC-1**	**0.08898**	**114**	**105**	**Yes**	**24**	**0**	**n/a**	**0.01**	**NP**
Boron (mg/L)	**MGWC-2**	**-0.2194**	**-217**	**-105**	**Yes**	**24**	**0**	**n/a**	**0.01**	**NP**
Boron (mg/L)	**MGWC-3**	**-0.09977**	**-111**	**-105**	**Yes**	**24**	**0**	**n/a**	**0.01**	**NP**
Boron (mg/L)	**MGWC-7**	**0.1315**	**218**	**105**	**Yes**	**24**	**0**	**n/a**	**0.01**	**NP**
Boron (mg/L)	**MGWC-8**	**0.5069**	**155**	**105**	**Yes**	**24**	**0**	**n/a**	**0.01**	**NP**
Calcium (mg/L)	MGWA-5 (bg)	0	-34	-105	No	24	0	n/a	0.01	NP
Calcium (mg/L)	MGWA-6 (bg)	0	75	105	No	24	0	n/a	0.01	NP
Calcium (mg/L)	**MGWA-6A (bg)**	**3.356**	**53**	**48**	**Yes**	**14**	**0**	**n/a**	**0.01**	**NP**
Calcium (mg/L)	**MGWA-10 (bg)**	**-0.3403**	**-159**	**-105**	**Yes**	**24**	**0**	**n/a**	**0.01**	**NP**
Calcium (mg/L)	MGWA-11 (bg)	0.5342	67	111	No	25	0	n/a	0.01	NP
Calcium (mg/L)	**MGWC-1**	**2.571**	**114**	**105**	**Yes**	**24**	**0**	**n/a**	**0.01**	**NP**
Calcium (mg/L)	**MGWC-8**	**11.86**	**225**	**105**	**Yes**	**24**	**0**	**n/a**	**0.01**	**NP**
Chloride (mg/L)	**MGWA-5 (bg)**	**-0.127**	**-135**	**-105**	**Yes**	**24**	**0**	**n/a**	**0.01**	**NP**
Chloride (mg/L)	**MGWA-6 (bg)**	**-0.9733**	**-226**	**-105**	**Yes**	**24**	**0**	**n/a**	**0.01**	**NP**
Chloride (mg/L)	**MGWA-6A (bg)**	**-0.2055**	**-53**	**-48**	**Yes**	**14**	**0**	**n/a**	**0.01**	**NP**
Chloride (mg/L)	MGWA-10 (bg)	0.04199	59	105	No	24	0	n/a	0.01	NP
Chloride (mg/L)	MGWA-11 (bg)	-0.03284	-37	-111	No	25	0	n/a	0.01	NP
Chloride (mg/L)	MGWC-1	0	-70	-105	No	24	0	n/a	0.01	NP
Chloride (mg/L)	**MGWC-2**	**-1.096**	**-222**	**-105**	**Yes**	**24**	**0**	**n/a**	**0.01**	**NP**
Chloride (mg/L)	MGWC-3	0	1	105	No	24	0	n/a	0.01	NP
Chloride (mg/L)	**MGWC-8**	**0.3742**	**149**	**105**	**Yes**	**24**	**0**	**n/a**	**0.01**	**NP**
Sulfate (mg/L)	**MGWA-5 (bg)**	**-0.4863**	**-183**	**-105**	**Yes**	**24**	**0**	**n/a**	**0.01**	**NP**
Sulfate (mg/L)	**MGWA-6 (bg)**	**-2.13**	**-198**	**-105**	**Yes**	**24**	**0**	**n/a**	**0.01**	**NP**
Sulfate (mg/L)	MGWA-6A (bg)	0.3028	26	48	No	14	0	n/a	0.01	NP
Sulfate (mg/L)	**MGWA-10 (bg)**	**-0.1069**	**-147**	**-105**	**Yes**	**24**	**33.33**	**n/a**	**0.01**	**NP**
Sulfate (mg/L)	MGWA-11 (bg)	0.05133	59	111	No	25	24	n/a	0.01	NP
Sulfate (mg/L)	MGWC-1	1.363	63	105	No	24	0	n/a	0.01	NP
Sulfate (mg/L)	**MGWC-2**	**-18.82**	**-237**	**-105**	**Yes**	**24**	**0**	**n/a**	**0.01**	**NP**
Sulfate (mg/L)	MGWC-3	4.522	78	105	No	24	0	n/a	0.01	NP
Sulfate (mg/L)	**MGWC-7**	**5.385**	**162**	**111**	**Yes**	**25**	**0**	**n/a**	**0.01**	**NP**
Sulfate (mg/L)	**MGWC-8**	**24.78**	**115**	**105**	**Yes**	**24**	**0**	**n/a**	**0.01**	**NP**
TDS (mg/L)	MGWA-5 (bg)	0	8	105	No	24	0	n/a	0.01	NP
TDS (mg/L)	MGWA-6 (bg)	-1.975	-54	-105	No	24	0	n/a	0.01	NP
TDS (mg/L)	MGWA-6A (bg)	0	-3	-48	No	14	0	n/a	0.01	NP
TDS (mg/L)	MGWA-10 (bg)	-1.366	-41	-105	No	24	0	n/a	0.01	NP
TDS (mg/L)	MGWA-11 (bg)	4.672	77	105	No	24	0	n/a	0.01	NP
TDS (mg/L)	MGWC-1	7.05	67	105	No	24	0	n/a	0.01	NP
TDS (mg/L)	**MGWC-2**	**-27.63**	**-209**	**-105**	**Yes**	**24**	**0**	**n/a**	**0.01**	**NP**
TDS (mg/L)	**MGWC-8**	**46.42**	**129**	**105**	**Yes**	**24**	**0**	**n/a**	**0.01**	**NP**

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Hollow symbols indicate censored values.

Sen's Slope Estimator

MGWA-5 (bg)



n = 24

Slope = 0
units per year.

Mann-Kendall
statistic = -6
critical = -105

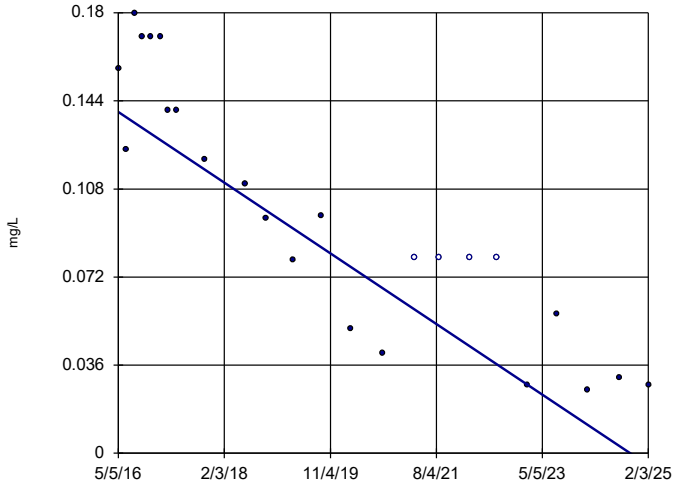
Trend not sig-
nificant at 99%
confidence level
(α = 0.005 per
tail).

Constituent: Boron Analysis Run 6/4/2025 4:39 AM View: Appendix III Trend Tests
Plant McIntosh Client: Southern Company Data: McIntosh AP-1

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Hollow symbols indicate censored values.

Sen's Slope Estimator

MGWA-6 (bg)



n = 24

Slope = -0.0165
units per year.

Mann-Kendall
statistic = -205
critical = -105

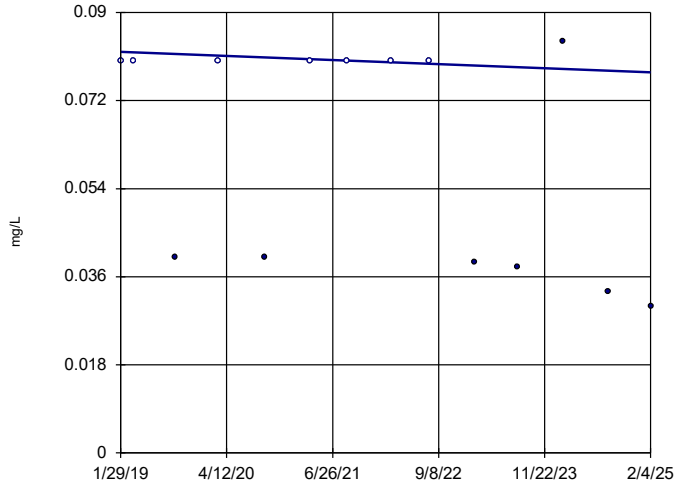
Decreasing trend
significant at 99%
confidence level
(α = 0.005 per
tail).

Constituent: Boron Analysis Run 6/4/2025 4:39 AM View: Appendix III Trend Tests
Plant McIntosh Client: Southern Company Data: McIntosh AP-1

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Hollow symbols indicate censored values.

Sen's Slope Estimator

MGWA-6A (bg)



n = 14

Slope = -0.0006959
units per year.

Mann-Kendall
statistic = -29
critical = -48

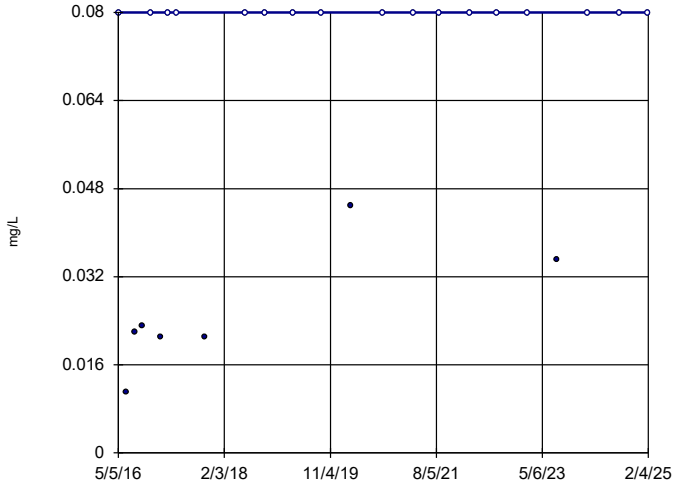
Trend not sig-
nificant at 99%
confidence level
(α = 0.005 per
tail).

Constituent: Boron Analysis Run 6/4/2025 4:39 AM View: Appendix III Trend Tests
Plant McIntosh Client: Southern Company Data: McIntosh AP-1

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Hollow symbols indicate censored values.

Sen's Slope Estimator

MGWA-10 (bg)



n = 24

Slope = 0
units per year.

Mann-Kendall
statistic = 67
critical = 105

Trend not sig-
nificant at 99%
confidence level
(α = 0.005 per
tail).

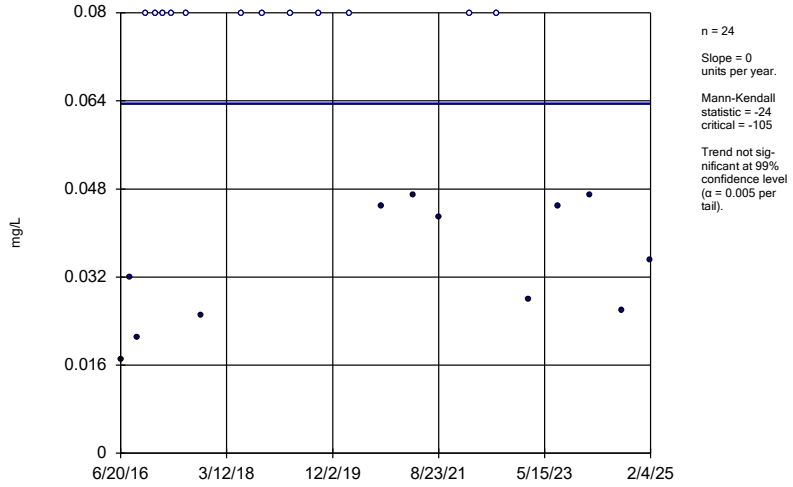
Constituent: Boron Analysis Run 6/4/2025 4:39 AM View: Appendix III Trend Tests
Plant McIntosh Client: Southern Company Data: McIntosh AP-1

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Hollow symbols indicate censored values.

Sen's Slope Estimator

MGWA-11 (bg)



n = 24

Slope = 0 units per year.

Mann-Kendall statistic = -24 critical = -105

Trend not significant at 99% confidence level (α = 0.005 per tail).

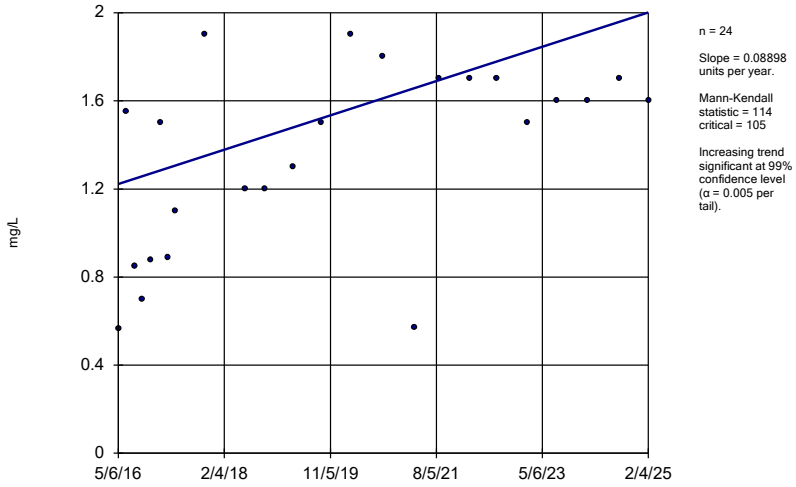
Constituent: Boron Analysis Run 6/4/2025 4:39 AM View: Appendix III Trend Tests

Plant McIntosh Client: Southern Company Data: McIntosh AP-1

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Sen's Slope Estimator

MGWC-1



n = 24

Slope = 0.08898 units per year.

Mann-Kendall statistic = 114 critical = 105

Increasing trend significant at 99% confidence level (α = 0.005 per tail).

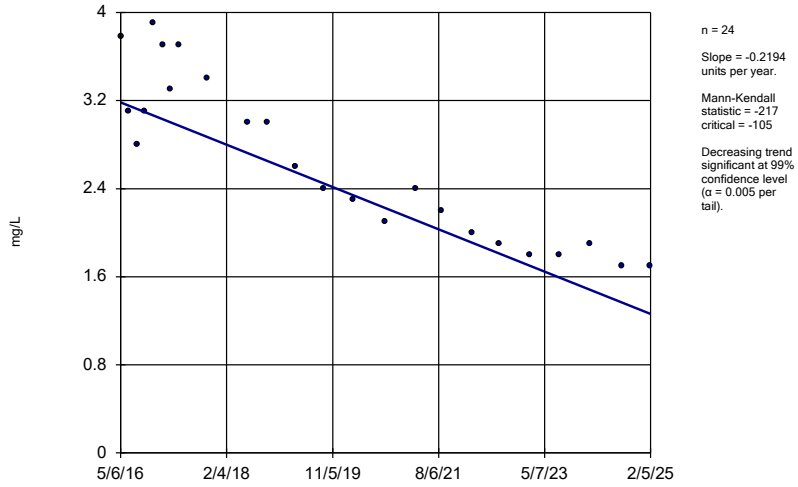
Constituent: Boron Analysis Run 6/4/2025 4:39 AM View: Appendix III Trend Tests

Plant McIntosh Client: Southern Company Data: McIntosh AP-1

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Sen's Slope Estimator

MGWC-2



n = 24

Slope = -0.2194 units per year.

Mann-Kendall statistic = -217 critical = -105

Decreasing trend significant at 99% confidence level (α = 0.005 per tail).

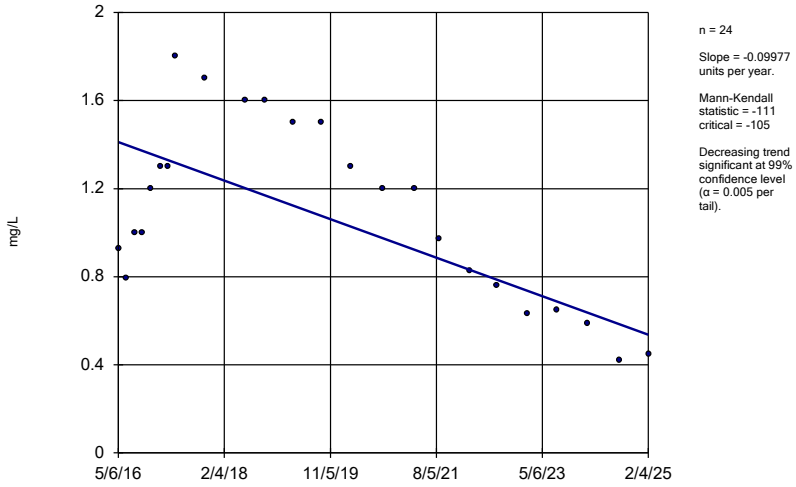
Constituent: Boron Analysis Run 6/4/2025 4:39 AM View: Appendix III Trend Tests

Plant McIntosh Client: Southern Company Data: McIntosh AP-1

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Sen's Slope Estimator

MGWC-3



n = 24

Slope = -0.09977 units per year.

Mann-Kendall statistic = -111 critical = -105

Decreasing trend significant at 99% confidence level (α = 0.005 per tail).

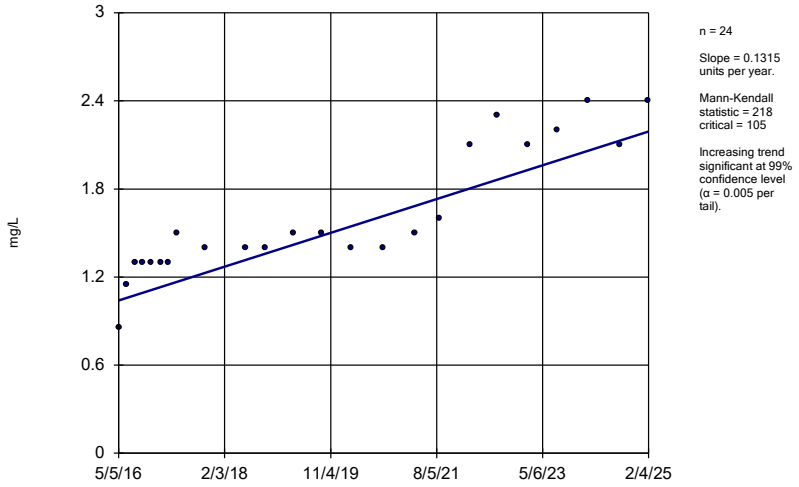
Constituent: Boron Analysis Run 6/4/2025 4:39 AM View: Appendix III Trend Tests

Plant McIntosh Client: Southern Company Data: McIntosh AP-1

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Sen's Slope Estimator

MGWC-7



n = 24

Slope = 0.1315 units per year.

Mann-Kendall statistic = 218 critical = 105

Increasing trend significant at 99% confidence level (α = 0.005 per tail).

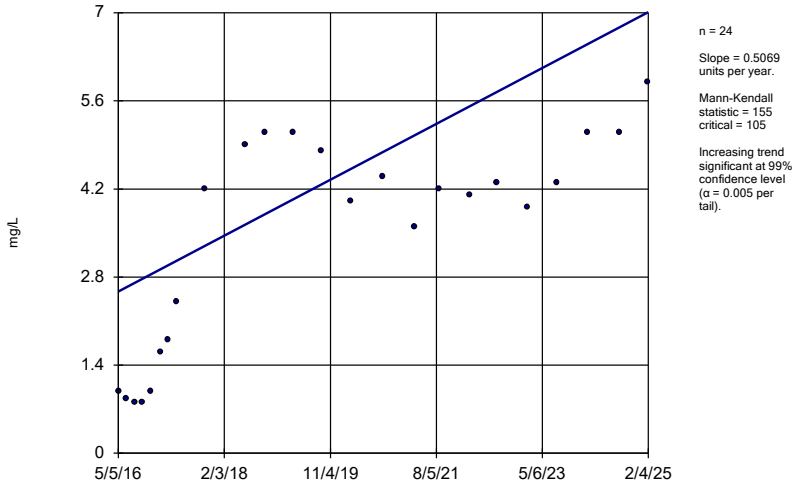
Constituent: Boron Analysis Run 6/4/2025 4:39 AM View: Appendix III Trend Tests

Plant McIntosh Client: Southern Company Data: McIntosh AP-1

Sanitas™ v.10.0.26 Software licensed to Groundwater Stats Consulting. UG

Sen's Slope Estimator

MGWC-8



n = 24

Slope = 0.5069 units per year.

Mann-Kendall statistic = 155 critical = 105

Increasing trend significant at 99% confidence level (α = 0.005 per tail).

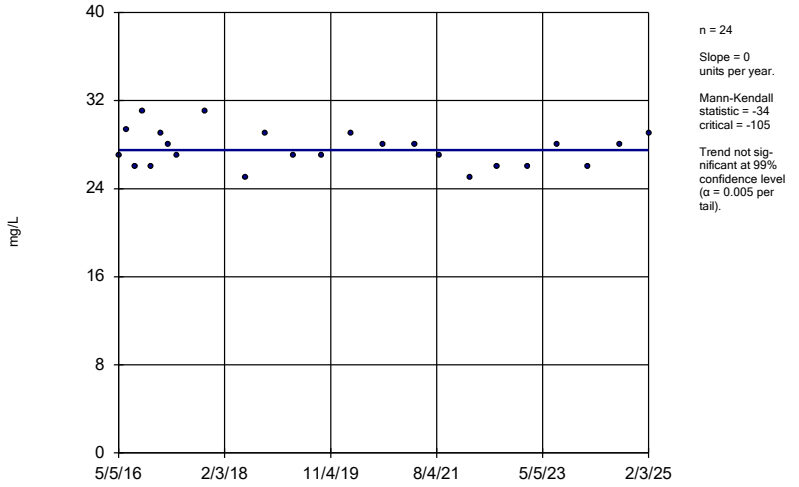
Constituent: Boron Analysis Run 6/4/2025 4:39 AM View: Appendix III Trend Tests

Plant McIntosh Client: Southern Company Data: McIntosh AP-1

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Sen's Slope Estimator

MGWA-5 (bg)



n = 24

Slope = 0 units per year.

Mann-Kendall statistic = -34 critical = -105

Trend not significant at 99% confidence level (α = 0.005 per tail).

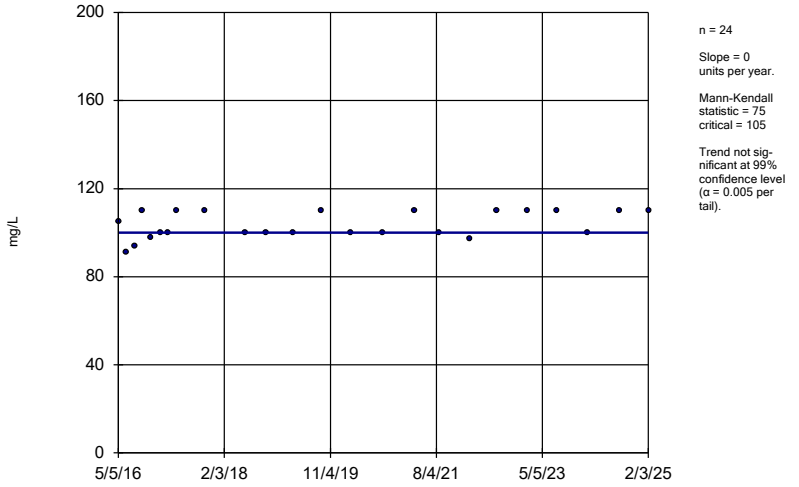
Constituent: Calcium Analysis Run 6/4/2025 4:39 AM View: Appendix III Trend Tests

Plant McIntosh Client: Southern Company Data: McIntosh AP-1

Sanitas™ v.10.0.26 Software licensed to Groundwater Stats Consulting. UG

Sen's Slope Estimator

MGWA-6 (bg)



n = 24

Slope = 0 units per year.

Mann-Kendall statistic = 75 critical = 105

Trend not significant at 99% confidence level (α = 0.005 per tail).

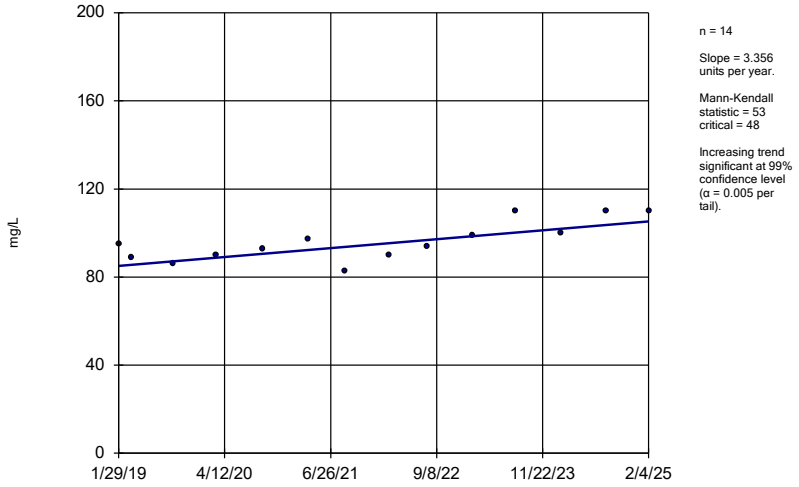
Constituent: Calcium Analysis Run 6/4/2025 4:39 AM View: Appendix III Trend Tests

Plant McIntosh Client: Southern Company Data: McIntosh AP-1

Sanitas™ v.10.0.26 Software licensed to Groundwater Stats Consulting. UG

Sen's Slope Estimator

MGWA-6A (bg)



n = 14

Slope = 3.356 units per year.

Mann-Kendall statistic = 53 critical = 48

Increasing trend significant at 99% confidence level (α = 0.005 per tail).

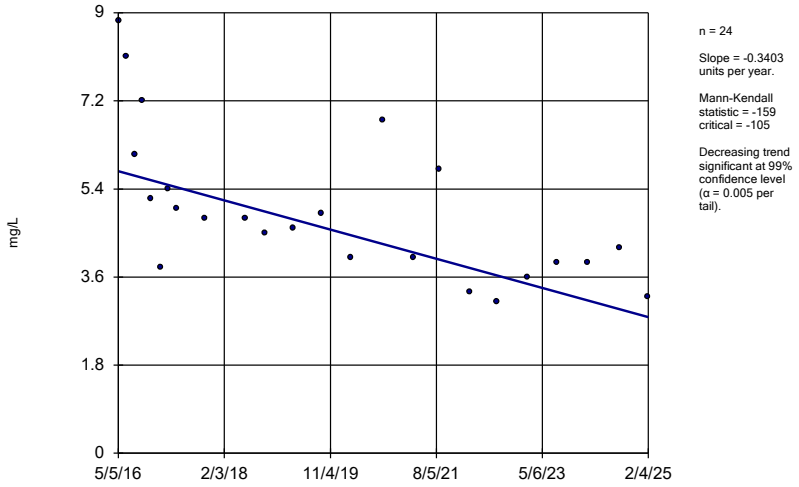
Constituent: Calcium Analysis Run 6/4/2025 4:39 AM View: Appendix III Trend Tests

Plant McIntosh Client: Southern Company Data: McIntosh AP-1

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Sen's Slope Estimator

MGWA-10 (bg)



n = 24

Slope = -0.3403 units per year.

Mann-Kendall statistic = -159 critical = -105

Decreasing trend significant at 99% confidence level (α = 0.005 per tail).

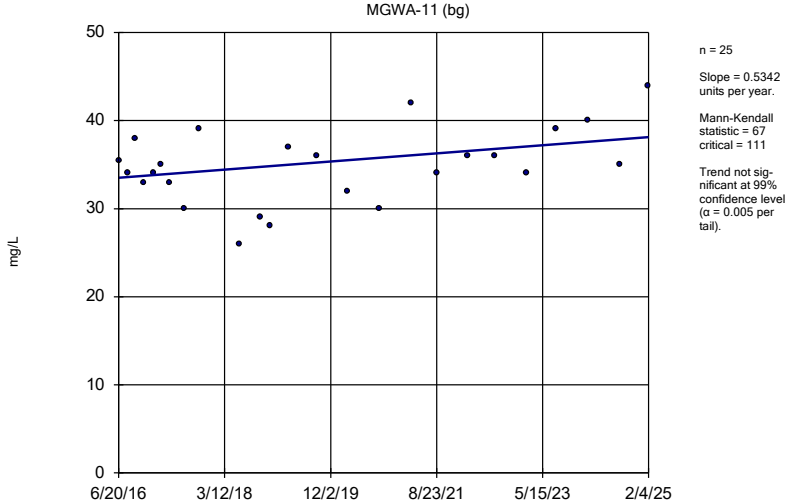
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Plant McIntosh Client: Southern Company Data: McIntosh AP-1

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Sen's Slope Estimator

MGWA-11 (bg)



n = 25

Slope = 0.5342 units per year.

Mann-Kendall statistic = 67 critical = 111

Trend not significant at 99% confidence level (α = 0.005 per tail).

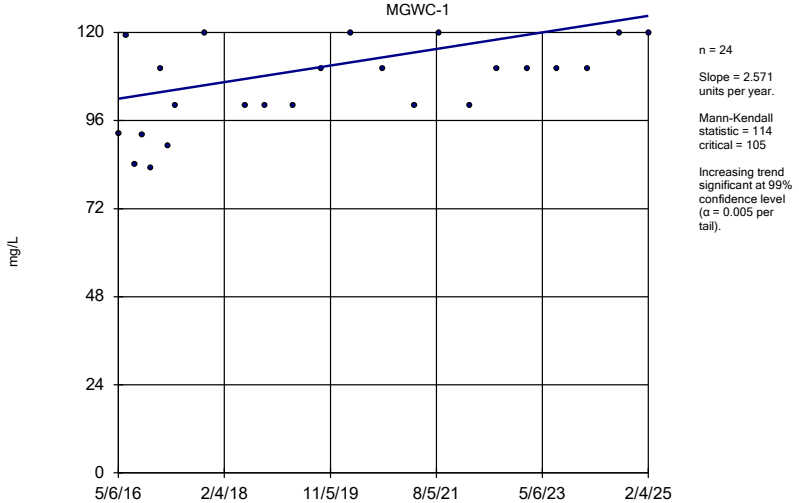
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Plant McIntosh Client: Southern Company Data: McIntosh AP-1

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Sen's Slope Estimator

MGWC-1



n = 24

Slope = 2.571 units per year.

Mann-Kendall statistic = 114 critical = 105

Increasing trend significant at 99% confidence level (α = 0.005 per tail).

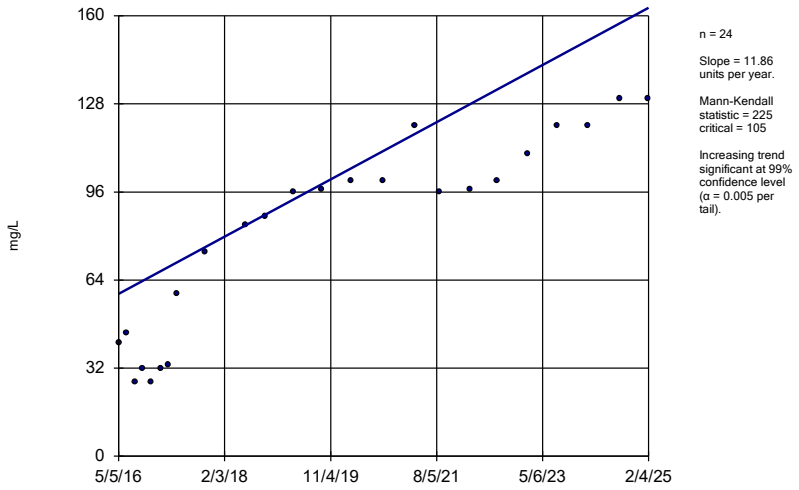
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Plant McIntosh Client: Southern Company Data: McIntosh AP-1

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Sen's Slope Estimator

MGWC-8



n = 24

Slope = 11.86 units per year.

Mann-Kendall statistic = 225 critical = 105

Increasing trend significant at 99% confidence level (α = 0.005 per tail).

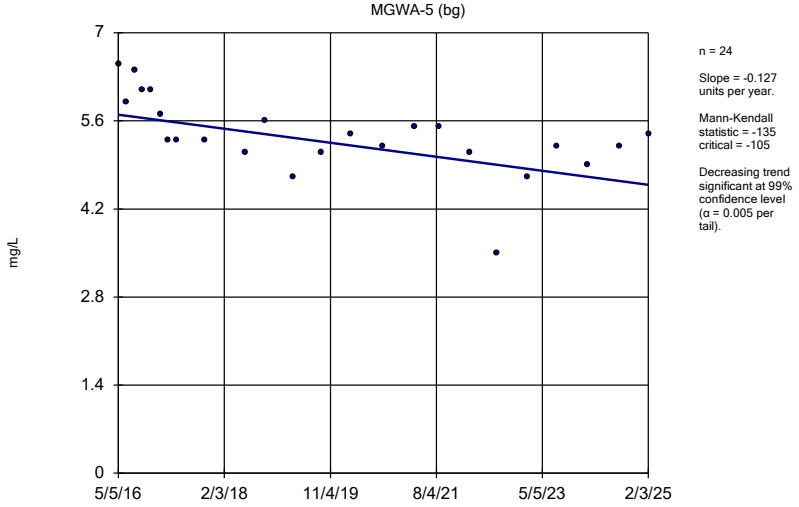
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Plant McIntosh Client: Southern Company Data: McIntosh AP-1

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Sen's Slope Estimator

MGWA-5 (bg)



n = 24

Slope = -0.127 units per year.

Mann-Kendall statistic = -135 critical = -105

Decreasing trend significant at 99% confidence level (α = 0.005 per tail).

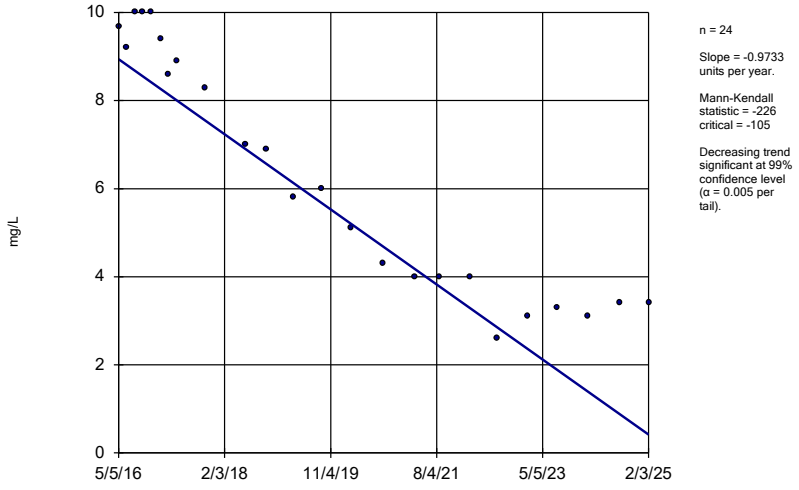
Constituent: Chloride Analysis Run 6/4/2025 4:39 AM View: Appendix III Trend Tests

Plant McIntosh Client: Southern Company Data: McIntosh AP-1

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Sen's Slope Estimator

MGWA-6 (bg)



n = 24

Slope = -0.9733 units per year.

Mann-Kendall statistic = -226 critical = -105

Decreasing trend significant at 99% confidence level (α = 0.005 per tail).

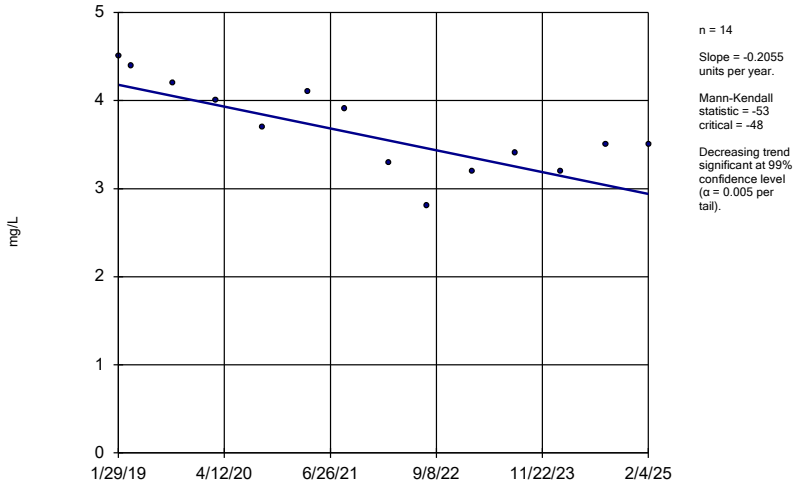
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Plant McIntosh Client: Southern Company Data: McIntosh AP-1

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Sen's Slope Estimator

MGWA-6A (bg)



n = 14

Slope = -0.2055 units per year.

Mann-Kendall statistic = -53 critical = -48

Decreasing trend significant at 99% confidence level (α = 0.005 per tail).

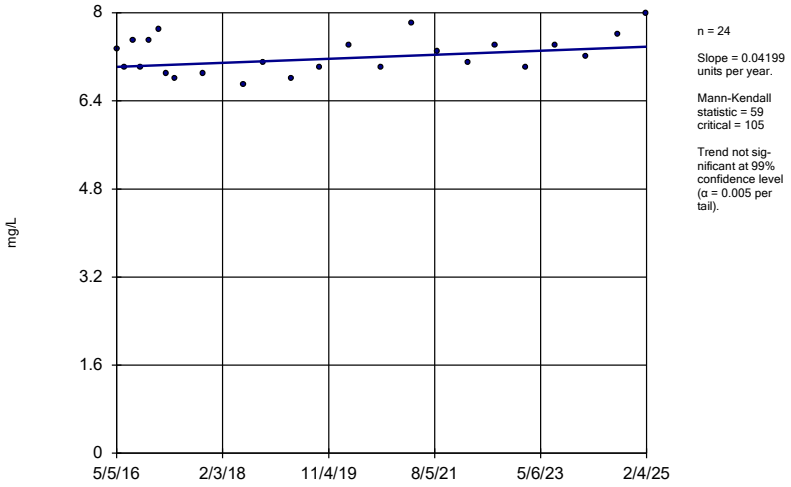
Constituent: Chloride Analysis Run 6/4/2025 4:39 AM View: Appendix III Trend Tests

Plant McIntosh Client: Southern Company Data: McIntosh AP-1

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Sen's Slope Estimator

MGWA-10 (bg)



n = 24

Slope = 0.04199 units per year.

Mann-Kendall statistic = 59 critical = 105

Trend not significant at 99% confidence level (α = 0.005 per tail).

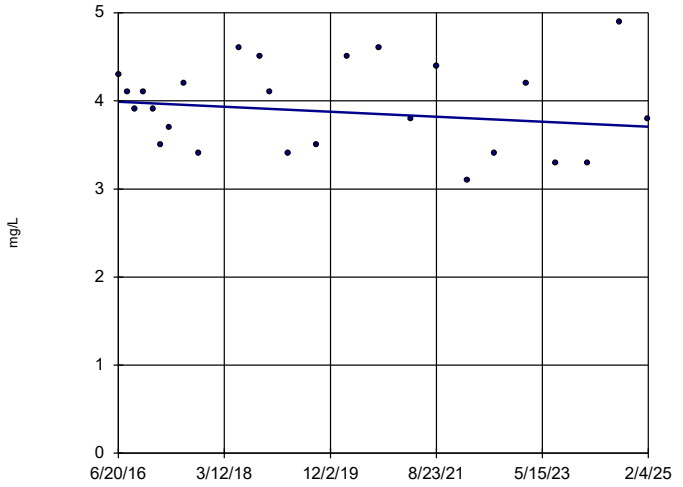
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Plant McIntosh Client: Southern Company Data: McIntosh AP-1

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Sen's Slope Estimator

MGWA-11 (bg)



n = 25

Slope = -0.03284 units per year.

Mann-Kendall statistic = -37 critical = -111

Trend not significant at 99% confidence level (α = 0.005 per tail).

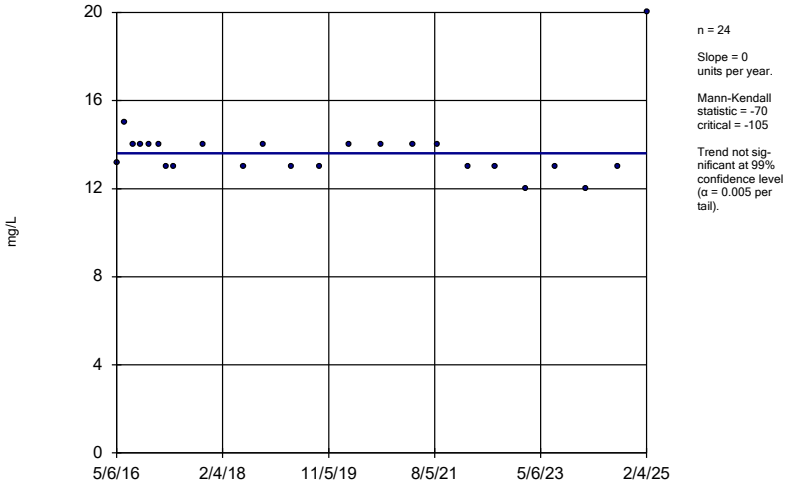
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Plant McIntosh Client: Southern Company Data: McIntosh AP-1

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Sen's Slope Estimator

MGWC-1



n = 24

Slope = 0 units per year.

Mann-Kendall statistic = -70 critical = -105

Trend not significant at 99% confidence level (α = 0.005 per tail).

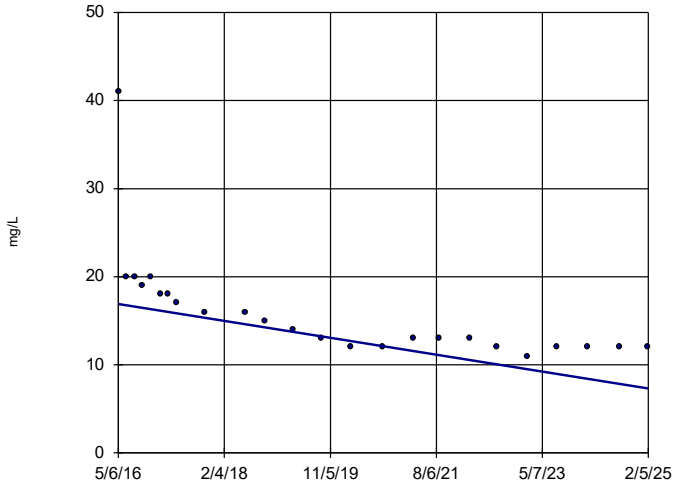
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Plant McIntosh Client: Southern Company Data: McIntosh AP-1

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Sen's Slope Estimator

MGWC-2



n = 24

Slope = -1.096 units per year.

Mann-Kendall statistic = -222 critical = -105

Decreasing trend significant at 99% confidence level (α = 0.005 per tail).

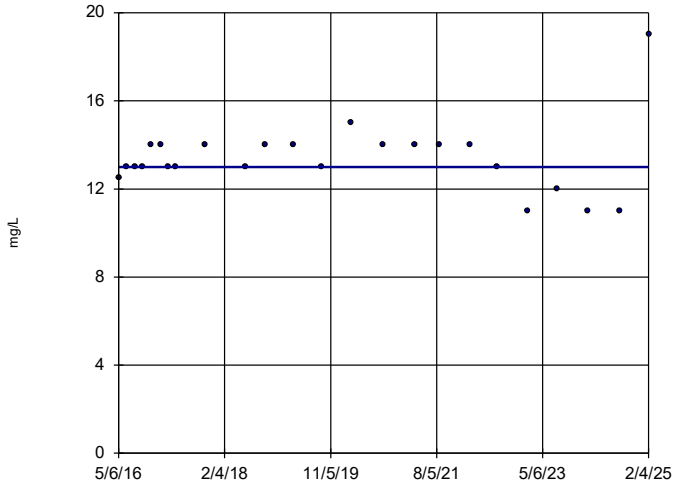
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Plant McIntosh Client: Southern Company Data: McIntosh AP-1

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Sen's Slope Estimator

MGWC-3



n = 24

Slope = 0 units per year.

Mann-Kendall statistic = 1 critical = 105

Trend not significant at 99% confidence level (α = 0.005 per tail).

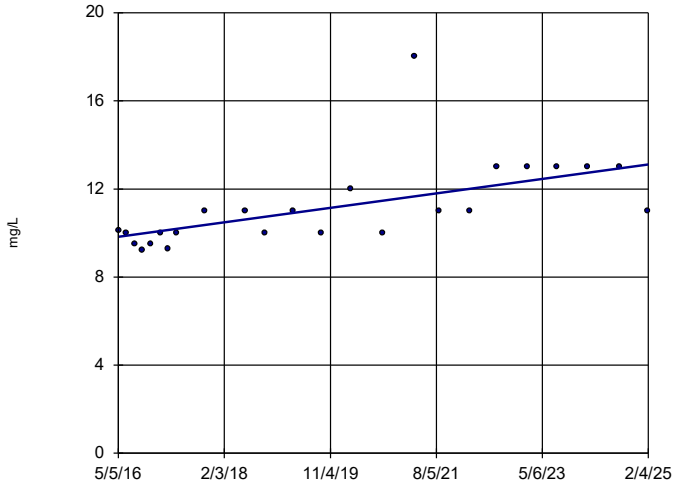
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Plant McIntosh Client: Southern Company Data: McIntosh AP-1

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Sen's Slope Estimator

MGWC-8



n = 24

Slope = 0.3742 units per year.

Mann-Kendall statistic = 149 critical = 105

Increasing trend significant at 99% confidence level (α = 0.005 per tail).

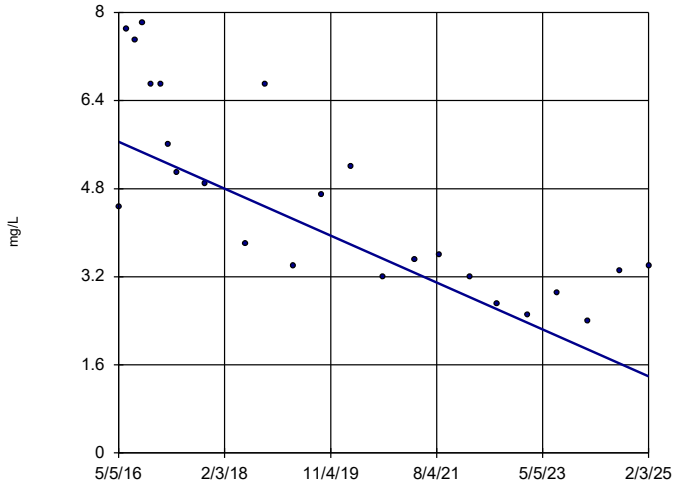
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Plant McIntosh Client: Southern Company Data: McIntosh AP-1

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Sen's Slope Estimator

MGWA-5 (bg)



n = 24

Slope = -0.4863 units per year.

Mann-Kendall statistic = -183 critical = -105

Decreasing trend significant at 99% confidence level (α = 0.005 per tail).

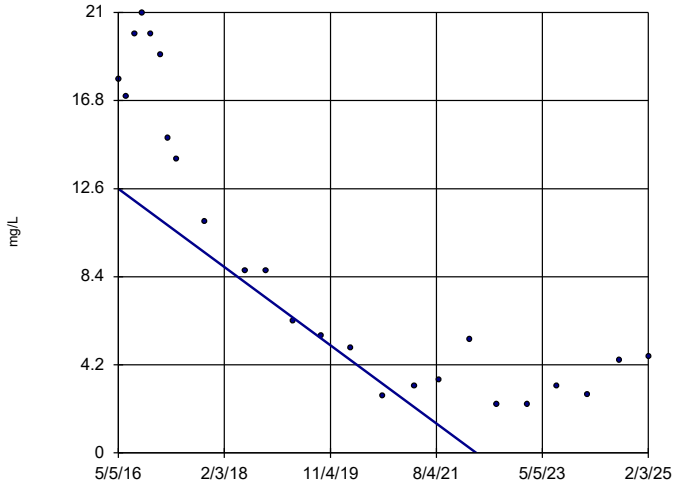
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Plant McIntosh Client: Southern Company Data: McIntosh AP-1

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Sen's Slope Estimator

MGWA-6 (bg)



n = 24

Slope = -2.13 units per year.

Mann-Kendall statistic = -198 critical = -105

Decreasing trend significant at 99% confidence level (α = 0.005 per tail).

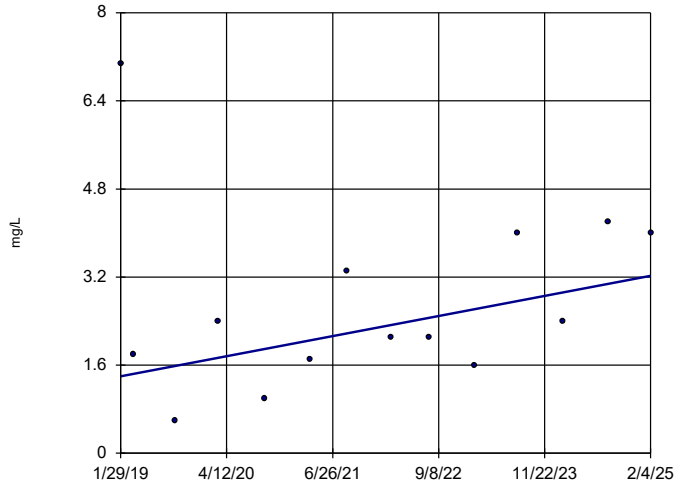
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Plant McIntosh Client: Southern Company Data: McIntosh AP-1

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Sen's Slope Estimator

MGWA-6A (bg)



n = 14

Slope = 0.3028 units per year.

Mann-Kendall statistic = 26 critical = 48

Trend not significant at 99% confidence level (α = 0.005 per tail).

Constituent: Sulfate Analysis Run 6/4/2025 4:40 AM View: Appendix III Trend Tests

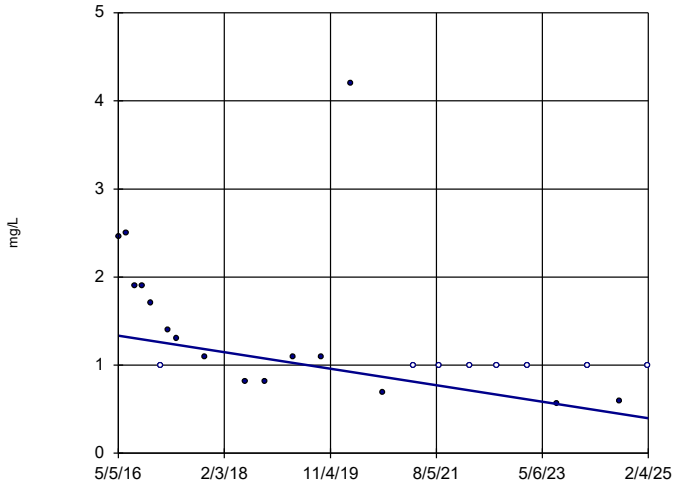
Plant McIntosh Client: Southern Company Data: McIntosh AP-1

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Hollow symbols indicate censored values.

Sen's Slope Estimator

MGWA-10 (bg)



n = 24

Slope = -0.1069 units per year.

Mann-Kendall statistic = -147 critical = -105

Decreasing trend significant at 99% confidence level (α = 0.005 per tail).

Constituent: Sulfate Analysis Run 6/4/2025 4:40 AM View: Appendix III Trend Tests

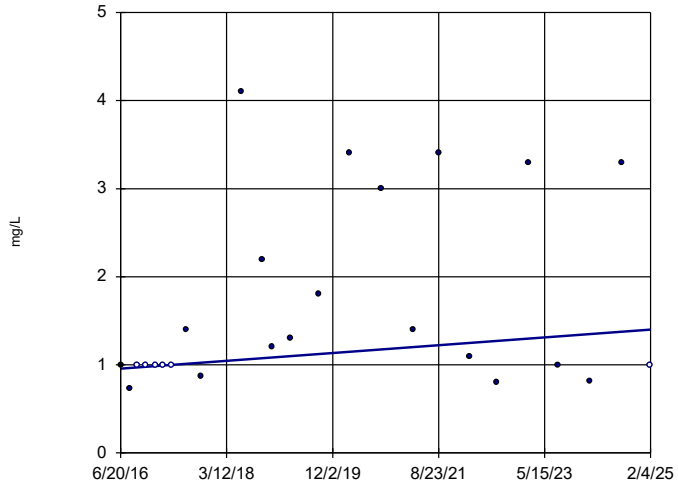
Plant McIntosh Client: Southern Company Data: McIntosh AP-1

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Hollow symbols indicate censored values.

Sen's Slope Estimator

MGWA-11 (bg)



n = 25

Slope = 0.05133 units per year.

Mann-Kendall statistic = 59 critical = 111

Trend not significant at 99% confidence level (α = 0.005 per tail).

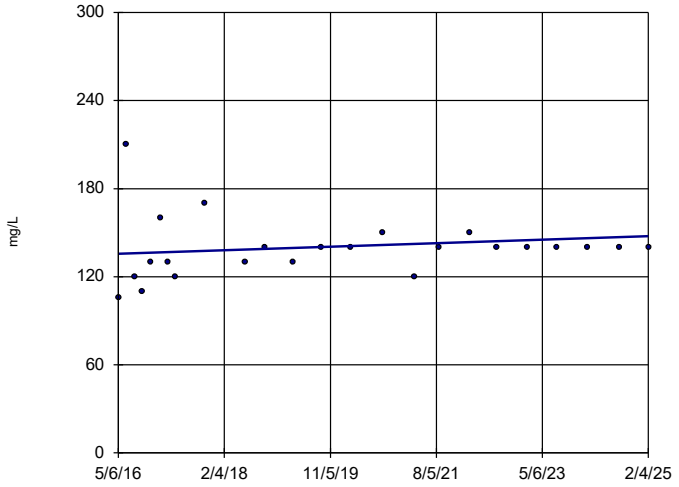
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Plant McIntosh Client: Southern Company Data: McIntosh AP-1

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Sen's Slope Estimator

MGWC-1



n = 24

Slope = 1.363 units per year.

Mann-Kendall statistic = 63 critical = 105

Trend not significant at 99% confidence level (α = 0.005 per tail).

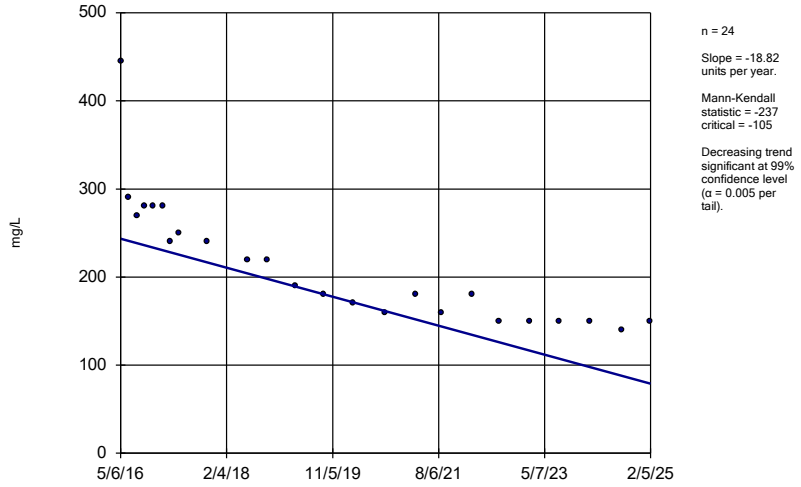
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Plant McIntosh Client: Southern Company Data: McIntosh AP-1

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Sen's Slope Estimator

MGWC-2



n = 24

Slope = -18.82 units per year.

Mann-Kendall statistic = -237 critical = -105

Decreasing trend significant at 99% confidence level (α = 0.005 per tail).

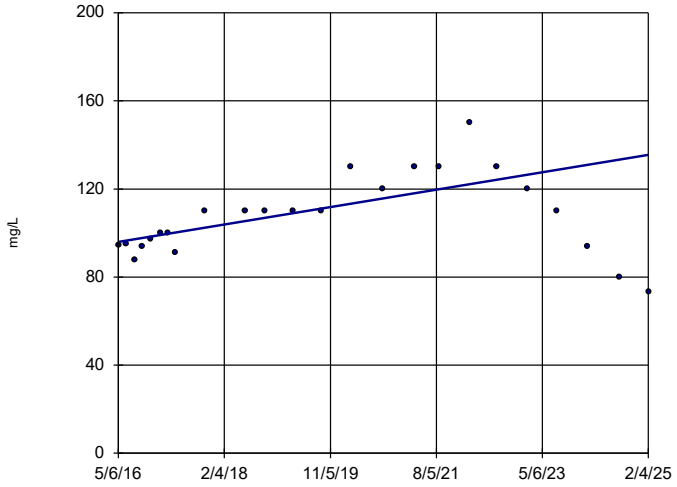
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Plant McIntosh Client: Southern Company Data: McIntosh AP-1

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Sen's Slope Estimator

MGWC-3



n = 24

Slope = 4.522 units per year.

Mann-Kendall statistic = 78 critical = 105

Trend not significant at 99% confidence level (α = 0.005 per tail).

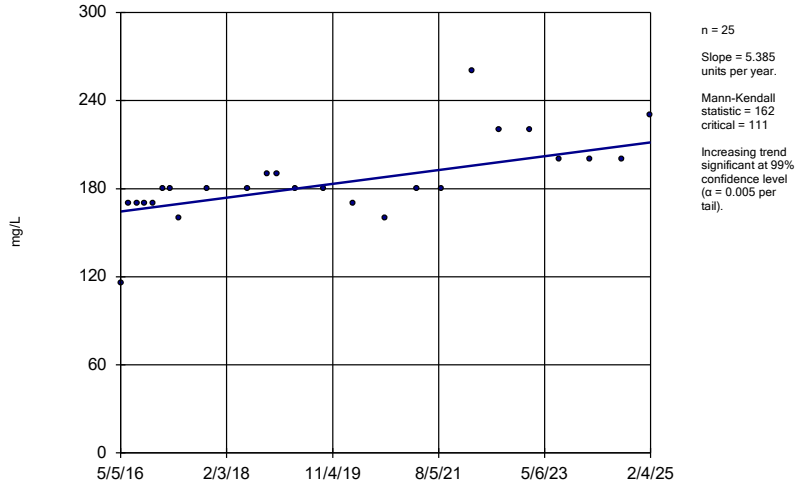
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Plant McIntosh Client: Southern Company Data: McIntosh AP-1

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Sen's Slope Estimator

MGWC-7



n = 25

Slope = 5.385 units per year.

Mann-Kendall statistic = 162 critical = 111

Increasing trend significant at 99% confidence level (α = 0.005 per tail).

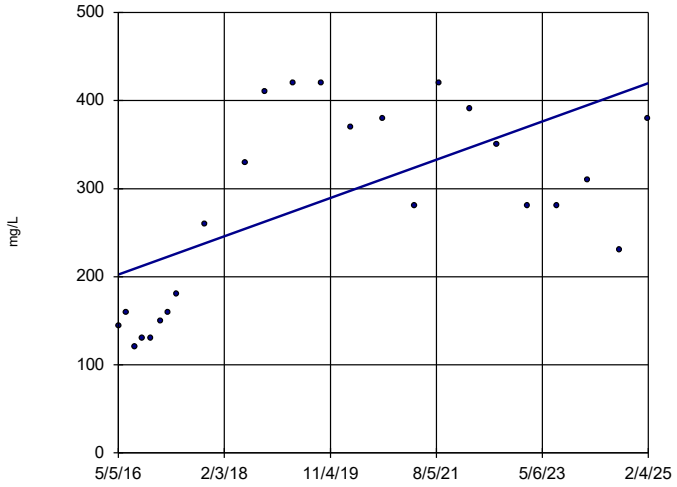
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Plant McIntosh Client: Southern Company Data: McIntosh AP-1

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Sen's Slope Estimator

MGWC-8



n = 24

Slope = 24.78 units per year.

Mann-Kendall statistic = 115 critical = 105

Increasing trend significant at 99% confidence level (α = 0.005 per tail).

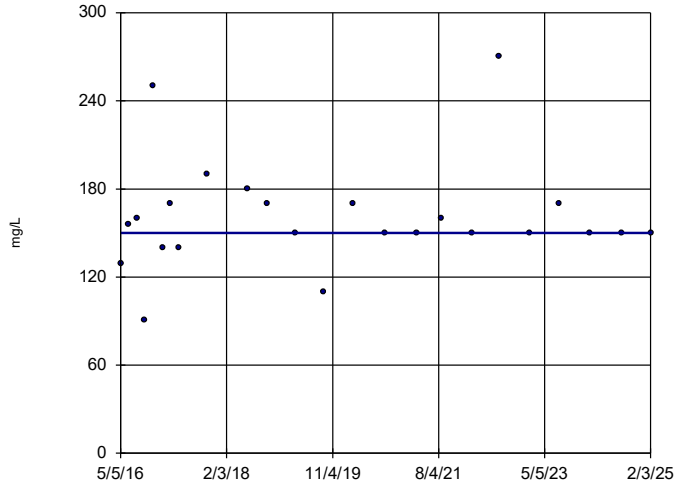
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Plant McIntosh Client: Southern Company Data: McIntosh AP-1

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Sen's Slope Estimator

MGWA-5 (bg)



n = 24

Slope = 0 units per year.

Mann-Kendall statistic = 8 critical = 105

Trend not significant at 99% confidence level (α = 0.005 per tail).

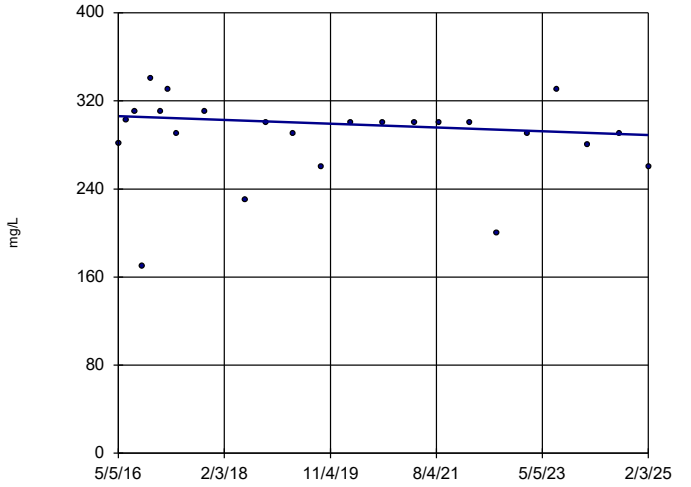
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Plant McIntosh Client: Southern Company Data: McIntosh AP-1

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Sen's Slope Estimator

MGWA-6 (bg)



n = 24

Slope = -1.975 units per year.

Mann-Kendall statistic = -54 critical = -105

Trend not significant at 99% confidence level (α = 0.005 per tail).

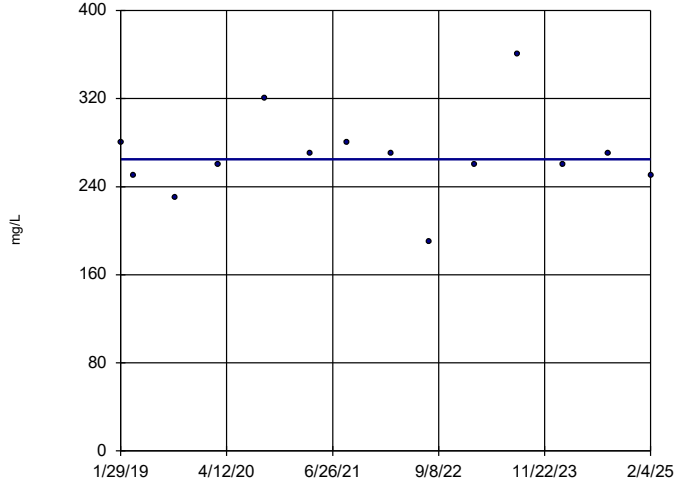
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Plant McIntosh Client: Southern Company Data: McIntosh AP-1

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Sen's Slope Estimator

MGWA-6A (bg)



n = 14

Slope = 0 units per year.

Mann-Kendall statistic = -3 critical = -48

Trend not significant at 99% confidence level (α = 0.005 per tail).

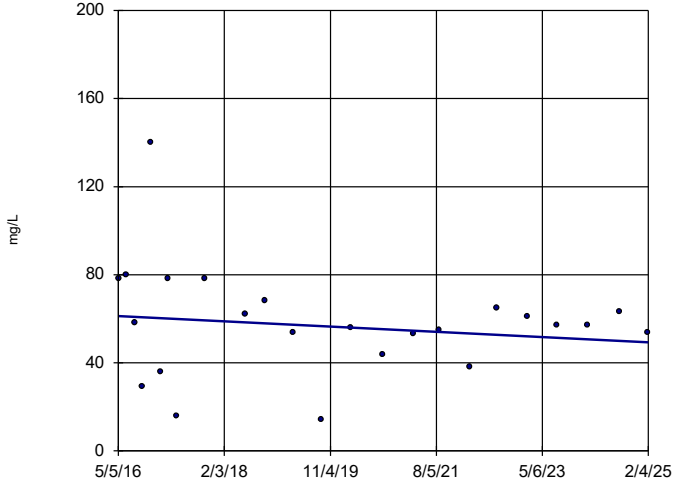
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Plant McIntosh Client: Southern Company Data: McIntosh AP-1

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Sen's Slope Estimator

MGWA-10 (bg)



n = 24

Slope = -1.366 units per year.

Mann-Kendall statistic = -41 critical = -105

Trend not significant at 99% confidence level (α = 0.005 per tail).

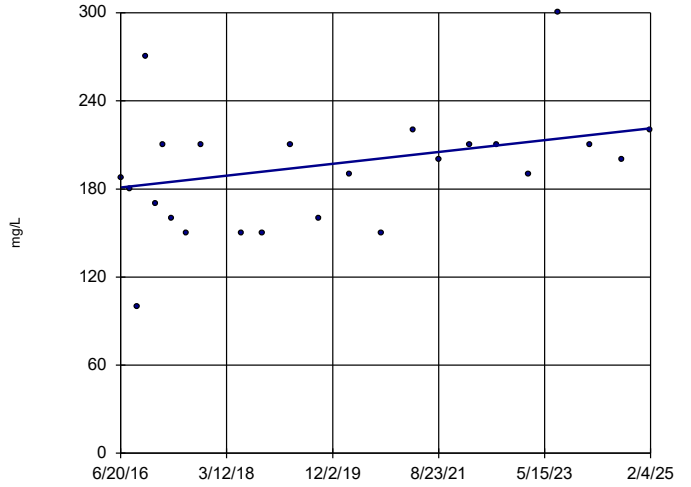
Constituent: TDS Analysis Run 6/4/2025 4:40 AM View: Appendix III Trend Tests

Plant McIntosh Client: Southern Company Data: McIntosh AP-1

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Sen's Slope Estimator

MGWA-11 (bg)



n = 24

Slope = 4.672 units per year.

Mann-Kendall statistic = 77 critical = 105

Trend not significant at 99% confidence level (α = 0.005 per tail).

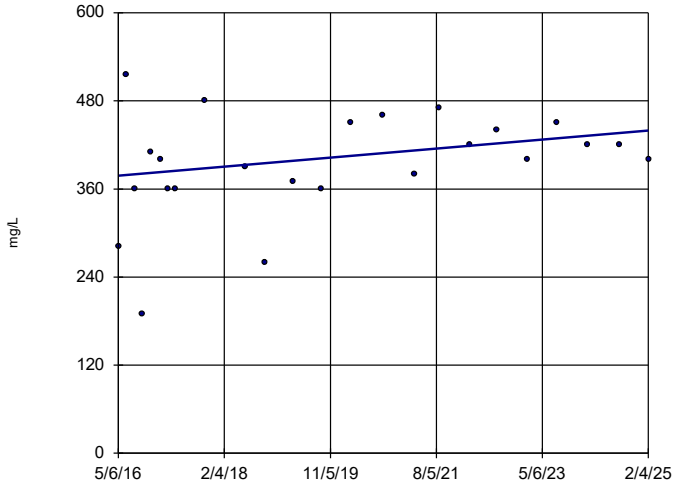
Constituent: TDS Analysis Run 6/4/2025 4:40 AM View: Appendix III Trend Tests

Plant McIntosh Client: Southern Company Data: McIntosh AP-1

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Sen's Slope Estimator

MGWC-1



n = 24

Slope = 7.05 units per year.

Mann-Kendall statistic = 67 critical = 105

Trend not significant at 99% confidence level (α = 0.005 per tail).

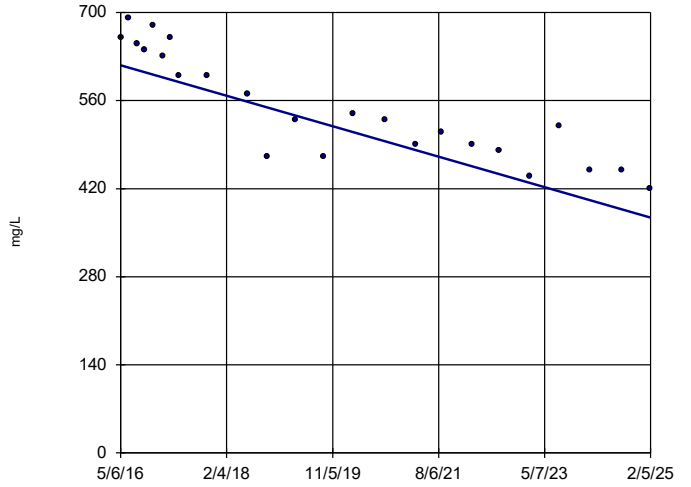
Constituent: TDS Analysis Run 6/4/2025 4:40 AM View: Appendix III Trend Tests

Plant McIntosh Client: Southern Company Data: McIntosh AP-1

Sanitas™ v.10.0.26 Software licensed to Groundwater Stats Consulting. UG

Sen's Slope Estimator

MGWC-2



n = 24

Slope = -27.63 units per year.

Mann-Kendall statistic = -209 critical = -105

Decreasing trend significant at 99% confidence level (α = 0.005 per tail).

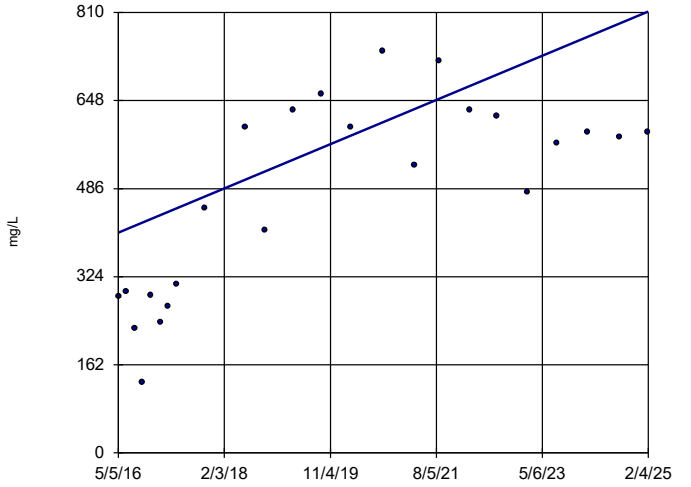
Constituent: TDS Analysis Run 6/4/2025 4:40 AM View: Appendix III Trend Tests

Plant McIntosh Client: Southern Company Data: McIntosh AP-1

Sanitas™ v.10.0.26 Software licensed to Groundwater Stats Consulting. UG

Sen's Slope Estimator

MGWC-8



n = 24

Slope = 46.42 units per year.

Mann-Kendall statistic = 129 critical = 105

Increasing trend significant at 99% confidence level (α = 0.005 per tail).

Constituent: TDS Analysis Run 6/4/2025 4:40 AM View: Appendix III Trend Tests

Plant McIntosh Client: Southern Company Data: McIntosh AP-1

FIGURE F.

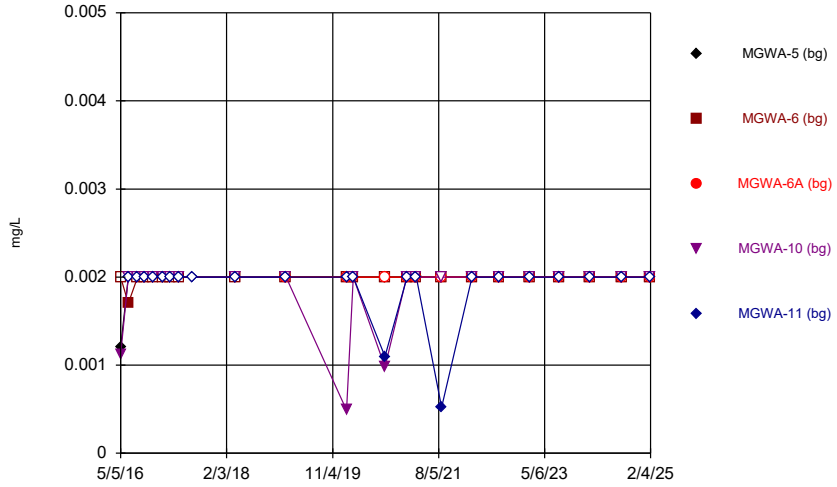
Upper Tolerance Limits Summary Table

Plant McIntosh Client: Southern Company Data: McIntosh AP-1 Printed 3/26/2025, 3:10 PM

Constituent	Upper Lim.	Bg N	Bg Mean	Std. Dev.	%NDs	ND Adj.	Transform	Alpha	Method
Antimony (mg/L)	0.002	106	n/a	n/a	93.4	n/a	n/a	0.004352	NP Inter(NDs)
Arsenic (mg/L)	0.014	116	n/a	n/a	33.62	n/a	n/a	0.002606	NP Inter(normality)
Barium (mg/L)	0.15	124	n/a	n/a	0	n/a	n/a	0.001729	NP Inter(normality)
Beryllium (mg/L)	0.0025	114	n/a	n/a	95.61	n/a	n/a	0.002887	NP Inter(NDs)
Cadmium (mg/L)	0.0025	124	n/a	n/a	99.19	n/a	n/a	0.001729	NP Inter(NDs)
Chromium (mg/L)	0.0066	114	n/a	n/a	72.81	n/a	n/a	0.002887	NP Inter(NDs)
Cobalt (mg/L)	0.0025	127	n/a	n/a	72.44	n/a	n/a	0.001482	NP Inter(NDs)
Combined Radium 226 + 228 (pCi/L)	1.245	125	0.6146	0.3336	0	None	No	0.05	Inter
Fluoride (mg/L)	0.19	119	n/a	n/a	34.45	n/a	n/a	0.002234	NP Inter(normality)
Lead (mg/L)	0.001	106	n/a	n/a	93.4	n/a	n/a	0.004352	NP Inter(NDs)
Lithium (mg/L)	0.037	128	n/a	n/a	27.34	n/a	n/a	0.001408	NP Inter(normality)
Mercury (mg/L)	0.0002	114	n/a	n/a	97.37	n/a	n/a	0.002887	NP Inter(NDs)
Molybdenum (mg/L)	0.015	114	n/a	n/a	64.04	n/a	n/a	0.002887	NP Inter(NDs)
Selenium (mg/L)	0.005	94	n/a	n/a	93.62	n/a	n/a	0.008054	NP Inter(NDs)
Thallium (mg/L)	0.001	114	n/a	n/a	86.84	n/a	n/a	0.002887	NP Inter(NDs)

Sanitas™ v.10.0.24 Software licensed to Groundwater Stats Consulting. UG
Hollow symbols indicate censored values.

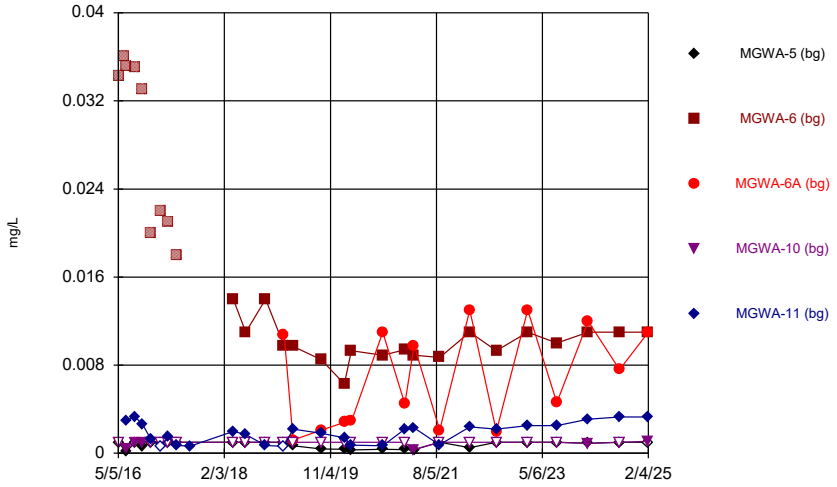
Time Series



Constituent: Antimony Analysis Run 3/26/2025 3:08 PM View: UTLs
Plant McIntosh Client: Southern Company Data: McIntosh AP-1

Sanitas™ v.10.0.24 Software licensed to Groundwater Stats Consulting. UG
Hollow symbols indicate censored values.

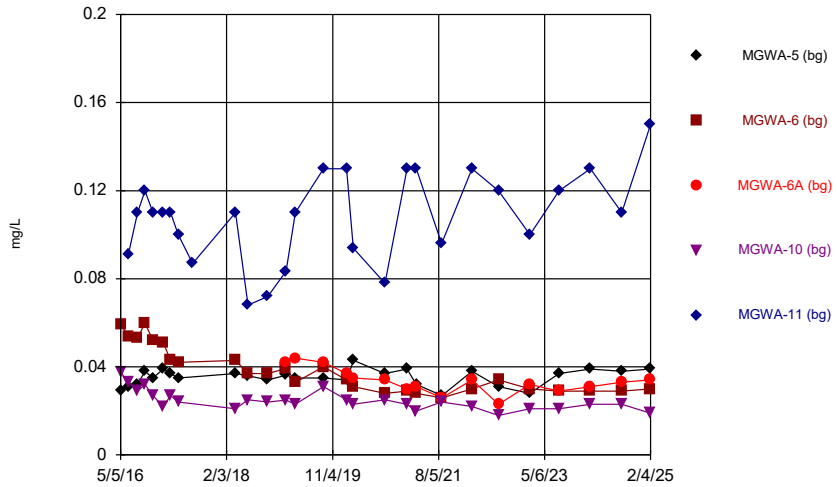
Time Series



Constituent: Arsenic Analysis Run 3/26/2025 3:08 PM View: UTLs
Plant McIntosh Client: Southern Company Data: McIntosh AP-1

Sanitas™ v.10.0.24 Software licensed to Groundwater Stats Consulting. UG

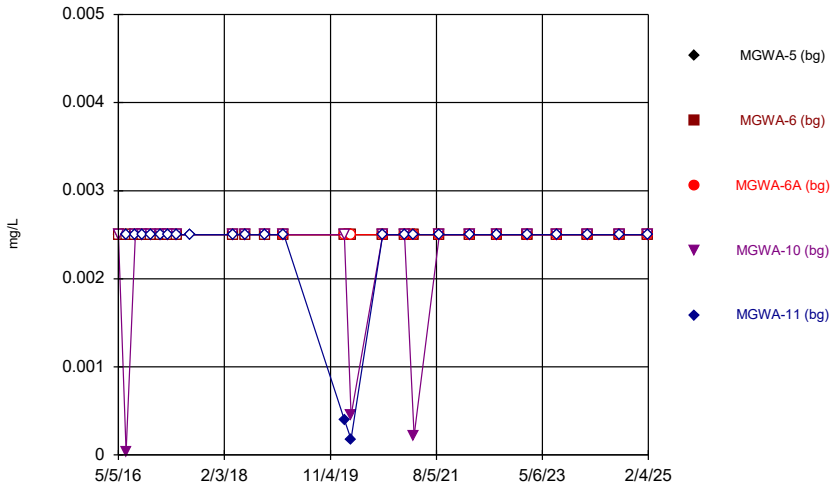
Time Series



Constituent: Barium Analysis Run 3/26/2025 3:08 PM View: UTLs
Plant McIntosh Client: Southern Company Data: McIntosh AP-1

Sanitas™ v.10.0.24 Software licensed to Groundwater Stats Consulting. UG
Hollow symbols indicate censored values.

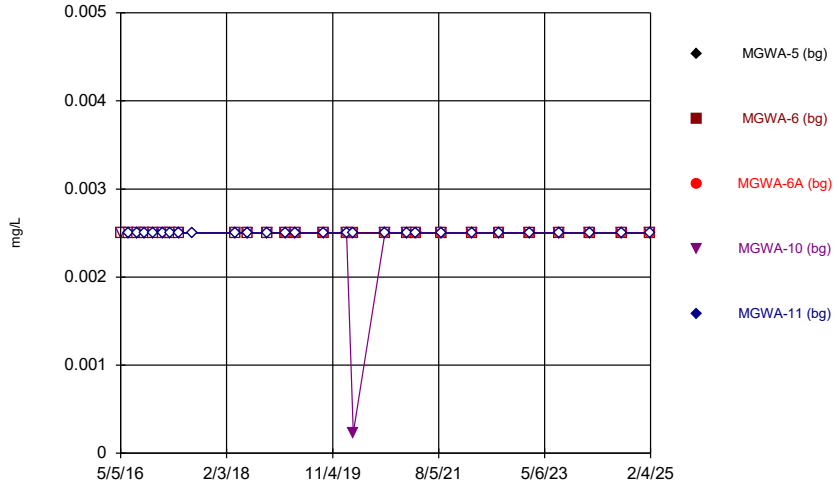
Time Series



Constituent: Beryllium Analysis Run 3/26/2025 3:08 PM View: UTLs
Plant McIntosh Client: Southern Company Data: McIntosh AP-1

Sanitas™ v.10.0.24 Software licensed to Groundwater Stats Consulting. UG
Hollow symbols indicate censored values.

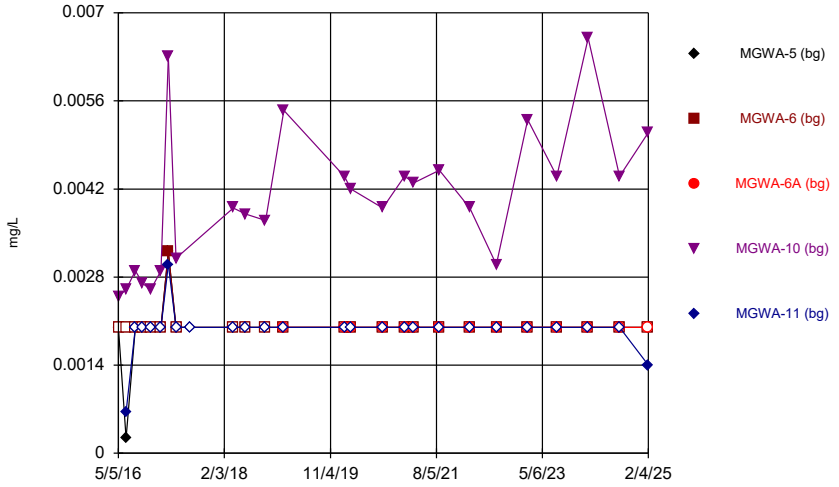
Time Series



Constituent: Cadmium Analysis Run 3/26/2025 3:08 PM View: UTLs
Plant McIntosh Client: Southern Company Data: McIntosh AP-1

Sanitas™ v.10.0.24 Software licensed to Groundwater Stats Consulting. UG
Hollow symbols indicate censored values.

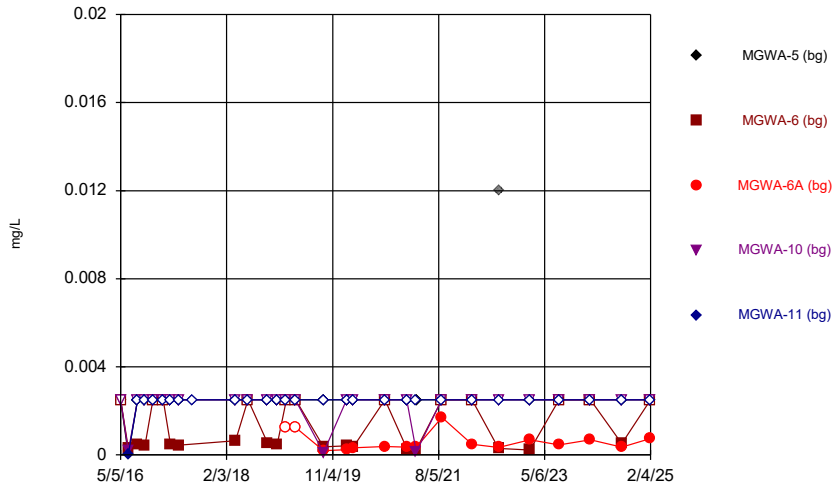
Time Series



Constituent: Chromium Analysis Run 3/26/2025 3:08 PM View: UTLs
Plant McIntosh Client: Southern Company Data: McIntosh AP-1

Sanitas™ v.10.0.24 Software licensed to Groundwater Stats Consulting. UG
Hollow symbols indicate censored values.

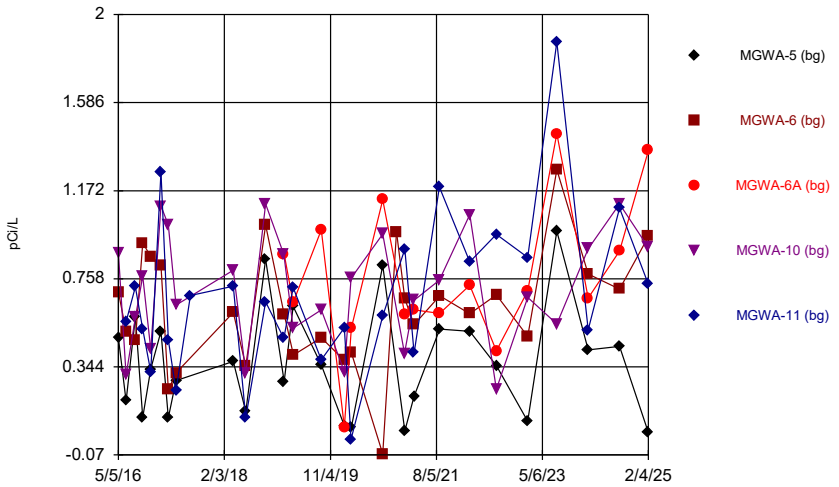
Time Series



Constituent: Cobalt Analysis Run 3/26/2025 3:08 PM View: UTLs
Plant McIntosh Client: Southern Company Data: McIntosh AP-1

Sanitas™ v.10.0.24 Software licensed to Groundwater Stats Consulting. UG

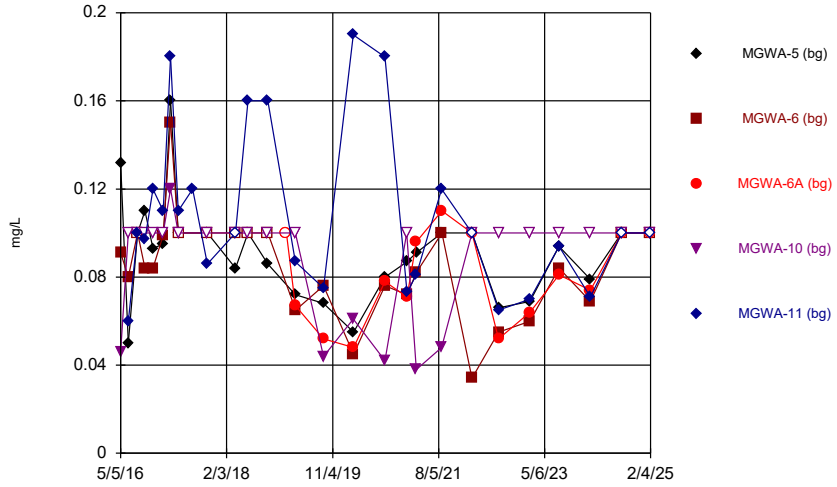
Time Series



Constituent: Combined Radium 226 + 228 Analysis Run 3/26/2025 3:08 PM View: UTLs
Plant McIntosh Client: Southern Company Data: McIntosh AP-1

Sanitas™ v.10.0.24 Software licensed to Groundwater Stats Consulting. UG
Hollow symbols indicate censored values.

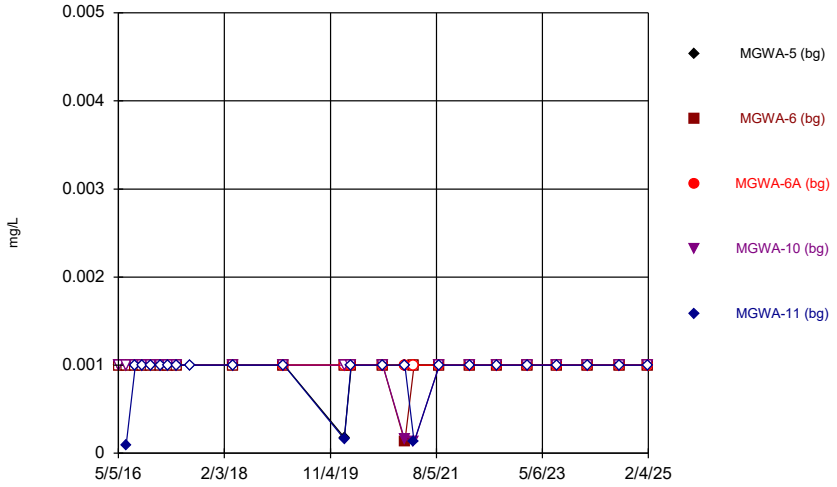
Time Series



Constituent: Fluoride Analysis Run 3/26/2025 3:08 PM View: UTLs
Plant McIntosh Client: Southern Company Data: McIntosh AP-1

Sanitas™ v.10.0.24 Software licensed to Groundwater Stats Consulting. UG
Hollow symbols indicate censored values.

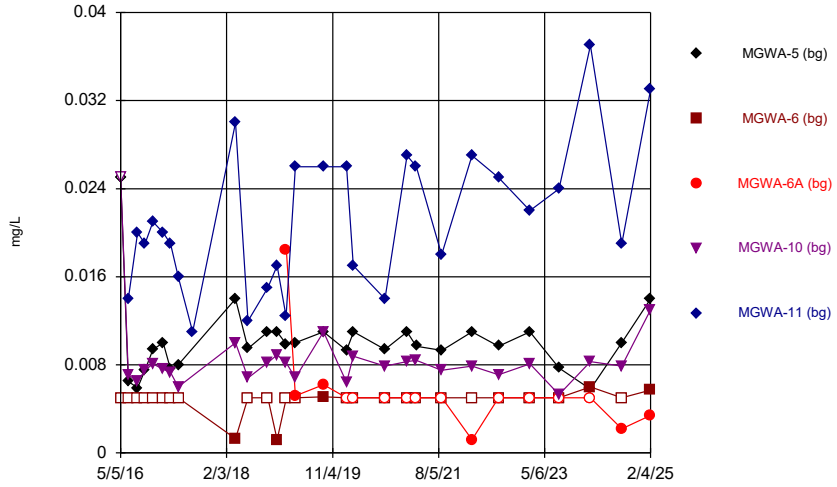
Time Series



Constituent: Lead Analysis Run 3/26/2025 3:08 PM View: UTLs
Plant McIntosh Client: Southern Company Data: McIntosh AP-1

Sanitas™ v.10.0.24 Software licensed to Groundwater Stats Consulting. UG
Hollow symbols indicate censored values.

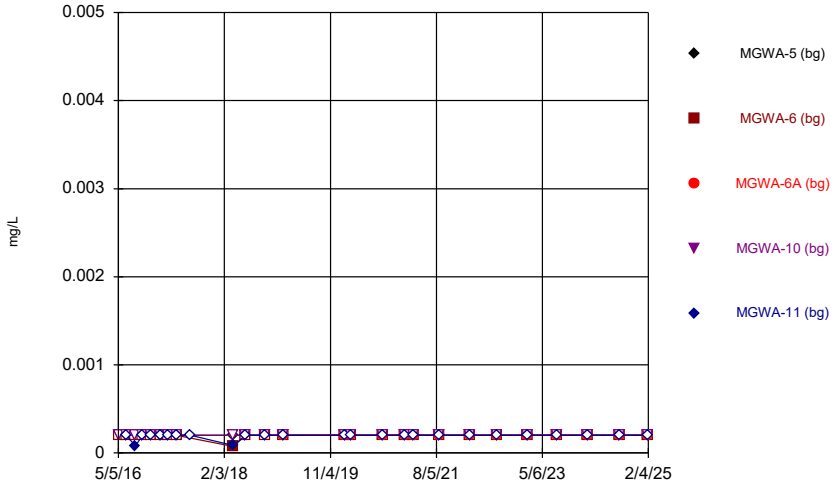
Time Series



Constituent: Lithium Analysis Run 3/26/2025 3:08 PM View: UTLs
Plant McIntosh Client: Southern Company Data: McIntosh AP-1

Sanitas™ v.10.0.24 Software licensed to Groundwater Stats Consulting. UG
Hollow symbols indicate censored values.

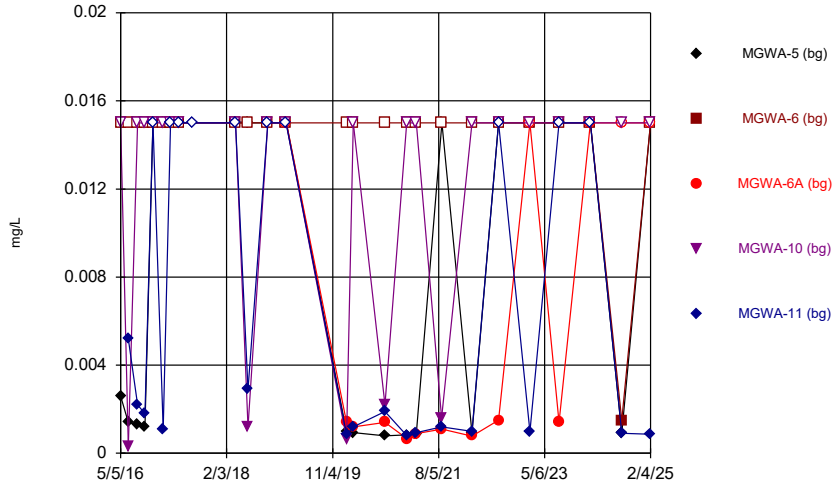
Time Series



Constituent: Mercury Analysis Run 3/26/2025 3:08 PM View: UTLs
Plant McIntosh Client: Southern Company Data: McIntosh AP-1

Sanitas™ v.10.0.24 Software licensed to Groundwater Stats Consulting. UG
Hollow symbols indicate censored values.

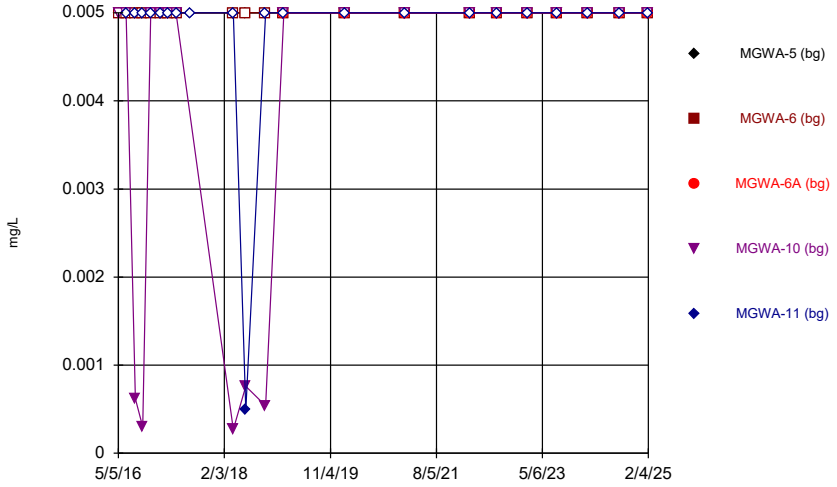
Time Series



Constituent: Molybdenum Analysis Run 3/26/2025 3:08 PM View: UTLs
Plant McIntosh Client: Southern Company Data: McIntosh AP-1

Sanitas™ v.10.0.24 Software licensed to Groundwater Stats Consulting. UG
Hollow symbols indicate censored values.

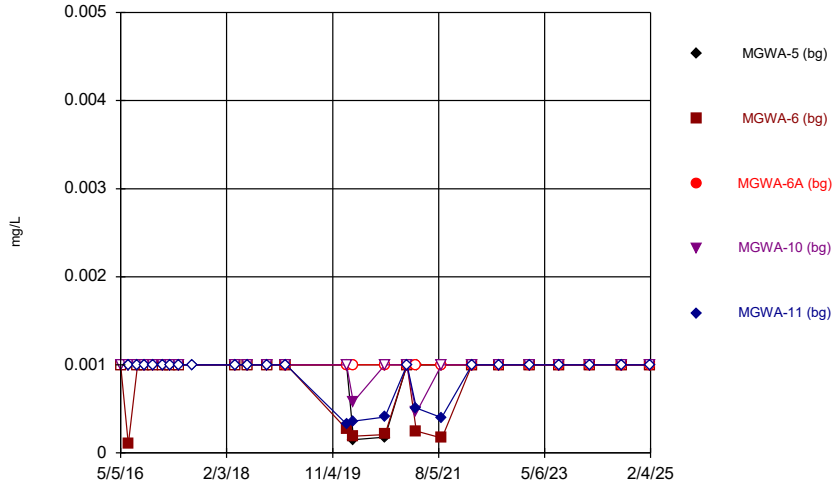
Time Series



Constituent: Selenium Analysis Run 3/26/2025 3:08 PM View: UTLs
Plant McIntosh Client: Southern Company Data: McIntosh AP-1

Sanitas™ v.10.0.24 Software licensed to Groundwater Stats Consulting. UG
Hollow symbols indicate censored values.

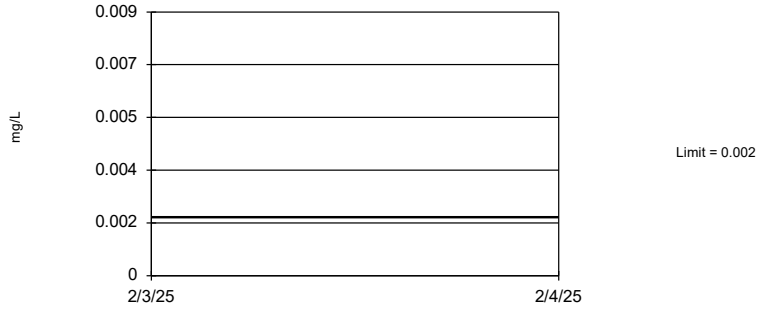
Time Series



Constituent: Thallium Analysis Run 3/26/2025 3:08 PM View: UTLs
Plant McIntosh Client: Southern Company Data: McIntosh AP-1

Tolerance Limit

Interwell Non-parametric



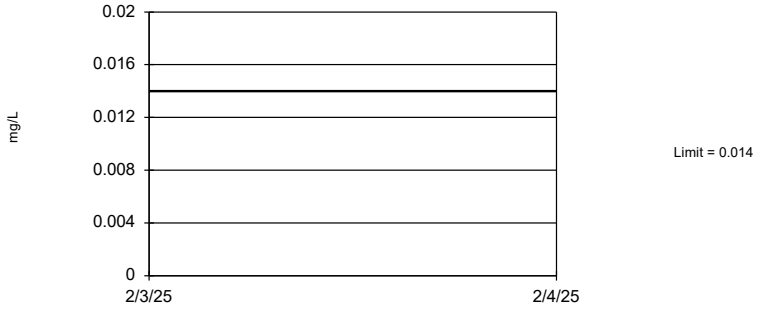
Non-parametric test used in lieu of parametric tolerance limit because censored data exceeded 50%. Limit is highest of 106 background values. 93.4% NDs. 95.9% coverage at alpha=0.01; 97.07% coverage at alpha=0.05; 99.41% coverage at alpha=0.5. Report alpha = 0.004352.

Constituent: Antimony Analysis Run 3/26/2025 3:08 PM View: UTLs
Plant McIntosh Client: Southern Company Data: McIntosh AP-1

Sanitas™ v.10.0.24 Software licensed to Groundwater Stats Consulting. UG

Tolerance Limit

Interwell Non-parametric



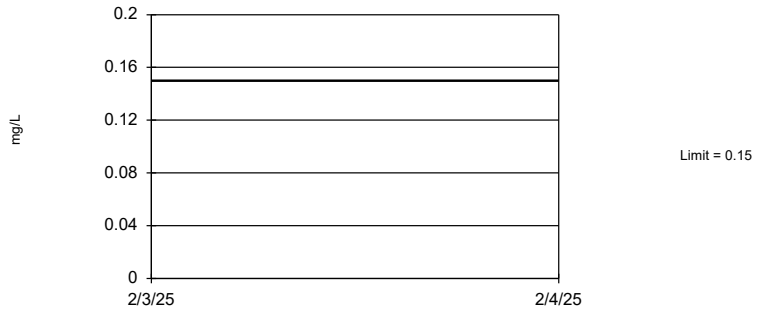
Non-parametric test used in lieu of parametric tolerance limit because the Chi Squared normality test showed the data to be non-normal at the 0.01 alpha level. Limit is highest of 116 background values. 33.62% NDs. 96.29% coverage at alpha=0.01; 97.46% coverage at alpha=0.05; 99.41% coverage at alpha=0.5. Report alpha = 0.002606.

Constituent: Arsenic Analysis Run 3/26/2025 3:08 PM View: UTLs
Plant McIntosh Client: Southern Company Data: McIntosh AP-1

Sanitas™ v.10.0.24 Software licensed to Groundwater Stats Consulting. UG

Tolerance Limit

Interwell Non-parametric



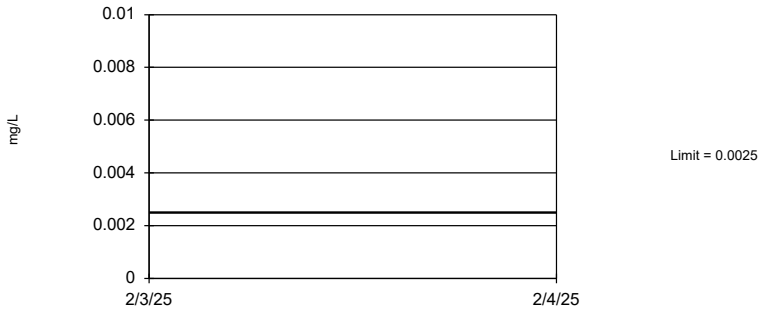
Non-parametric test used in lieu of parametric tolerance limit because the Chi Squared normality test showed the data to be non-normal at the 0.01 alpha level. Limit is highest of 124 background values. 96.29% coverage at alpha=0.01; 97.46% coverage at alpha=0.05; 99.41% coverage at alpha=0.5. Report alpha = 0.001729.

Constituent: Barium Analysis Run 3/26/2025 3:08 PM View: UTLs
Plant McIntosh Client: Southern Company Data: McIntosh AP-1

Sanitas™ v.10.0.24 Software licensed to Groundwater Stats Consulting. UG

Tolerance Limit

Interwell Non-parametric



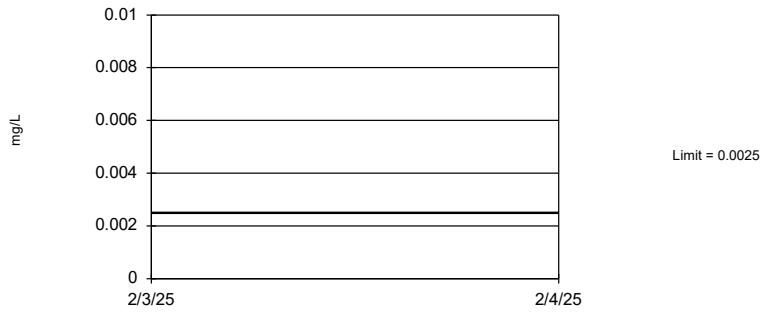
Non-parametric test used in lieu of parametric tolerance limit because censored data exceeded 50%. Limit is highest of 114 background values. 95.61% NDs. 95.9% coverage at alpha=0.01; 97.46% coverage at alpha=0.05; 99.41% coverage at alpha=0.5. Report alpha = 0.002887.

Constituent: Beryllium Analysis Run 3/26/2025 3:08 PM View: UTLs
Plant McIntosh Client: Southern Company Data: McIntosh AP-1

Sanitas™ v.10.0.24 Software licensed to Groundwater Stats Consulting. UG

Tolerance Limit

Interwell Non-parametric



Non-parametric test used in lieu of parametric tolerance limit because censored data exceeded 50%. Limit is highest of 124 background values. 99.19% NDs. 96.29% coverage at alpha=0.01; 97.46% coverage at alpha=0.05; 99.41% coverage at alpha=0.5. Report alpha = 0.001729.

Constituent: Cadmium Analysis Run 3/26/2025 3:08 PM View: UTLs
Plant McIntosh Client: Southern Company Data: McIntosh AP-1

Sanitas™ v.10.0.24 Software licensed to Groundwater Stats Consulting. UG

Tolerance Limit

Interwell Non-parametric



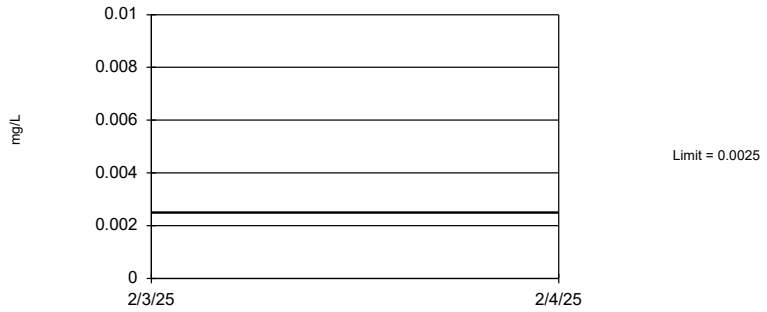
Non-parametric test used in lieu of parametric tolerance limit because censored data exceeded 50%. Limit is highest of 114 background values. 72.81% NDs. 95.9% coverage at alpha=0.01; 97.46% coverage at alpha=0.05; 99.41% coverage at alpha=0.5. Report alpha = 0.002887.

Constituent: Chromium Analysis Run 3/26/2025 3:08 PM View: UTLs
Plant McIntosh Client: Southern Company Data: McIntosh AP-1

Sanitas™ v.10.0.24 Software licensed to Groundwater Stats Consulting. UG

Tolerance Limit

Interwell Non-parametric



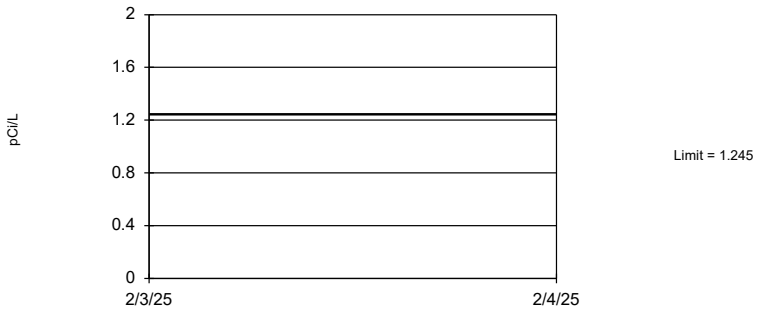
Non-parametric test used in lieu of parametric tolerance limit because censored data exceeded 50%. Limit is highest of 127 background values. 72.44% NDs. 96.29% coverage at alpha=0.01; 97.85% coverage at alpha=0.05; 99.41% coverage at alpha=0.5. Report alpha = 0.001482.

Constituent: Cobalt Analysis Run 3/26/2025 3:08 PM View: UTLs
Plant McIntosh Client: Southern Company Data: McIntosh AP-1

Sanitas™ v.10.0.24 Software licensed to Groundwater Stats Consulting. UG

Tolerance Limit

Interwell Parametric



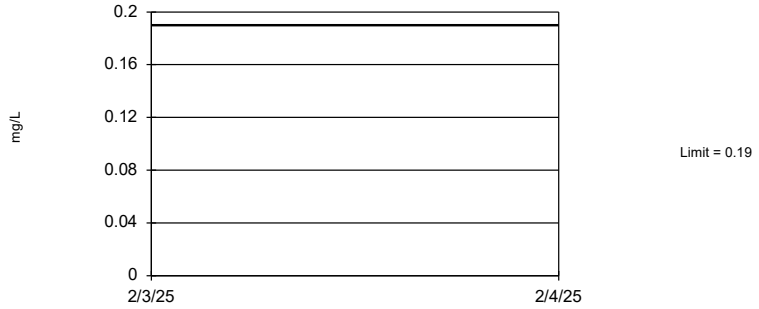
95% coverage. Background Data Summary: Mean=0.6146, Std. Dev.=0.3336, n=125. Normality test: Chi Squared @alpha = 0.01, calculated = 1.16, critical = 14.07. Report alpha = 0.05.

Constituent: Combined Radium 226 + 228 Analysis Run 3/26/2025 3:09 PM View: UTLs
Plant McIntosh Client: Southern Company Data: McIntosh AP-1

Sanitas™ v.10.0.24 Software licensed to Groundwater Stats Consulting. UG

Tolerance Limit

Interwell Non-parametric



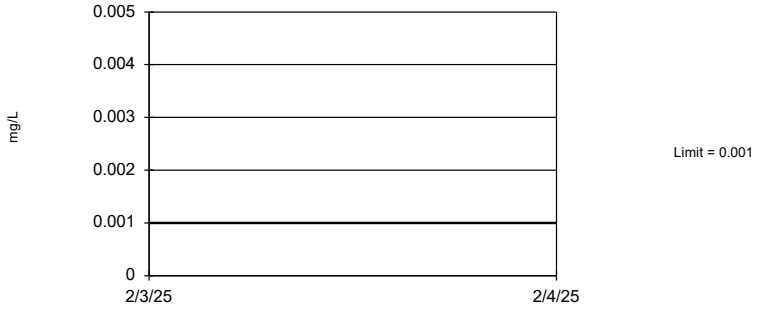
Non-parametric test used in lieu of parametric tolerance limit because the Chi Squared normality test showed the data to be non-normal at the 0.01 alpha level. Limit is highest of 119 background values. 34.45% NDs. 96.29% coverage at alpha=0.01; 97.46% coverage at alpha=0.05; 99.41% coverage at alpha=0.5. Report alpha = 0.002234.

Constituent: Fluoride Analysis Run 3/26/2025 3:09 PM View: UTLs
Plant McIntosh Client: Southern Company Data: McIntosh AP-1

Sanitas™ v.10.0.24 Software licensed to Groundwater Stats Consulting. UG

Tolerance Limit

Interwell Non-parametric



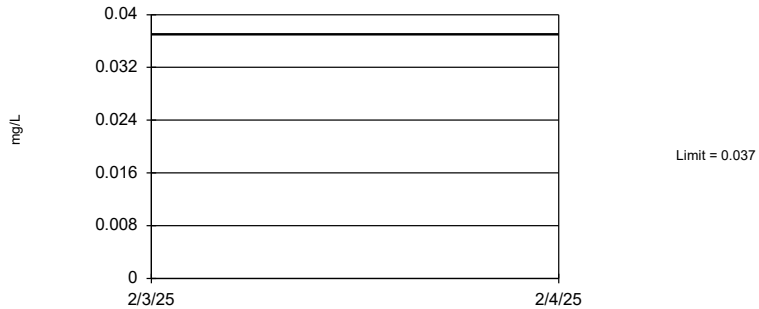
Non-parametric test used in lieu of parametric tolerance limit because censored data exceeded 50%. Limit is highest of 106 background values. 93.4% NDs. 95.9% coverage at alpha=0.01; 97.07% coverage at alpha=0.05; 99.41% coverage at alpha=0.5. Report alpha = 0.004352.

Constituent: Lead Analysis Run 3/26/2025 3:09 PM View: UTLs
Plant McIntosh Client: Southern Company Data: McIntosh AP-1

Sanitas™ v.10.0.24 Software licensed to Groundwater Stats Consulting. UG

Tolerance Limit

Interwell Non-parametric



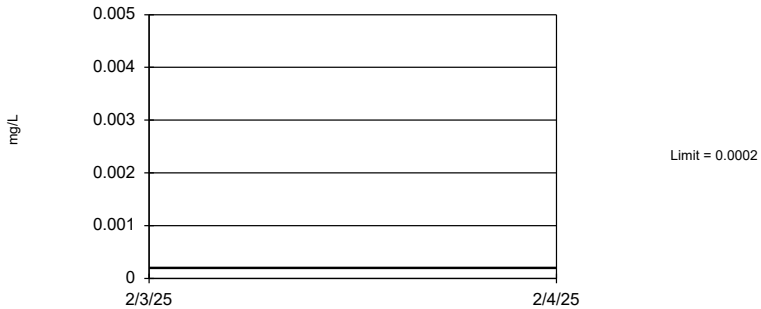
Non-parametric test used in lieu of parametric tolerance limit because the Chi Squared normality test showed the data to be non-normal at the 0.01 alpha level. Limit is highest of 128 background values. 27.34% NDs. 96.29% coverage at alpha=0.01; 97.85% coverage at alpha=0.05; 99.41% coverage at alpha=0.5. Report alpha = 0.001408.

Constituent: Lithium Analysis Run 3/26/2025 3:09 PM View: UTLs
Plant McIntosh Client: Southern Company Data: McIntosh AP-1

Sanitas™ v.10.0.24 Software licensed to Groundwater Stats Consulting. UG

Tolerance Limit

Interwell Non-parametric



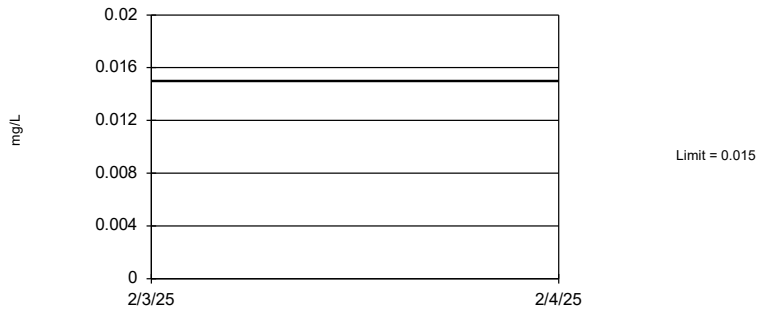
Non-parametric test used in lieu of parametric tolerance limit because censored data exceeded 50%. Limit is highest of 114 background values. 97.37% NDs. 95.9% coverage at alpha=0.01; 97.46% coverage at alpha=0.05; 99.41% coverage at alpha=0.5. Report alpha = 0.002887.

Constituent: Mercury Analysis Run 3/26/2025 3:09 PM View: UTLs
Plant McIntosh Client: Southern Company Data: McIntosh AP-1

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Tolerance Limit

Interwell Non-parametric



Non-parametric test used in lieu of parametric tolerance limit because censored data exceeded 50%. Limit is highest of 114 background values. 64.04% NDs. 95.9% coverage at alpha=0.01; 97.46% coverage at alpha=0.05; 99.41% coverage at alpha=0.5. Report alpha = 0.002887.

Constituent: Molybdenum Analysis Run 3/26/2025 3:09 PM View: UTLs
Plant McIntosh Client: Southern Company Data: McIntosh AP-1

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Tolerance Limit

Interwell Non-parametric



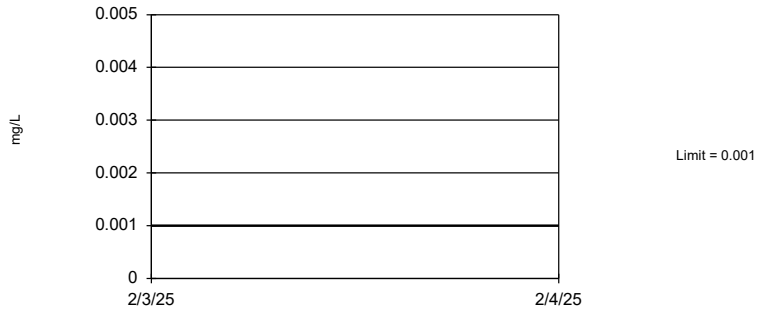
Non-parametric test used in lieu of parametric tolerance limit because censored data exceeded 50%. Limit is highest of 94 background values. 93.62% NDs. 95.12% coverage at alpha=0.01; 96.68% coverage at alpha=0.05; 99.41% coverage at alpha=0.5. Report alpha = 0.008054.

Constituent: Selenium Analysis Run 3/26/2025 3:09 PM View: UTLs
Plant McIntosh Client: Southern Company Data: McIntosh AP-1

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Tolerance Limit

Interwell Non-parametric



Non-parametric test used in lieu of parametric tolerance limit because censored data exceeded 50%. Limit is highest of 114 background values. 86.84% NDs. 95.9% coverage at alpha=0.01; 97.46% coverage at alpha=0.05; 99.41% coverage at alpha=0.5. Report alpha = 0.002887.

Constituent: Thallium Analysis Run 3/26/2025 3:09 PM View: UTLs
Plant McIntosh Client: Southern Company Data: McIntosh AP-1

FIGURE G.

Cobalt MGWC-7 Trend Test - All Results

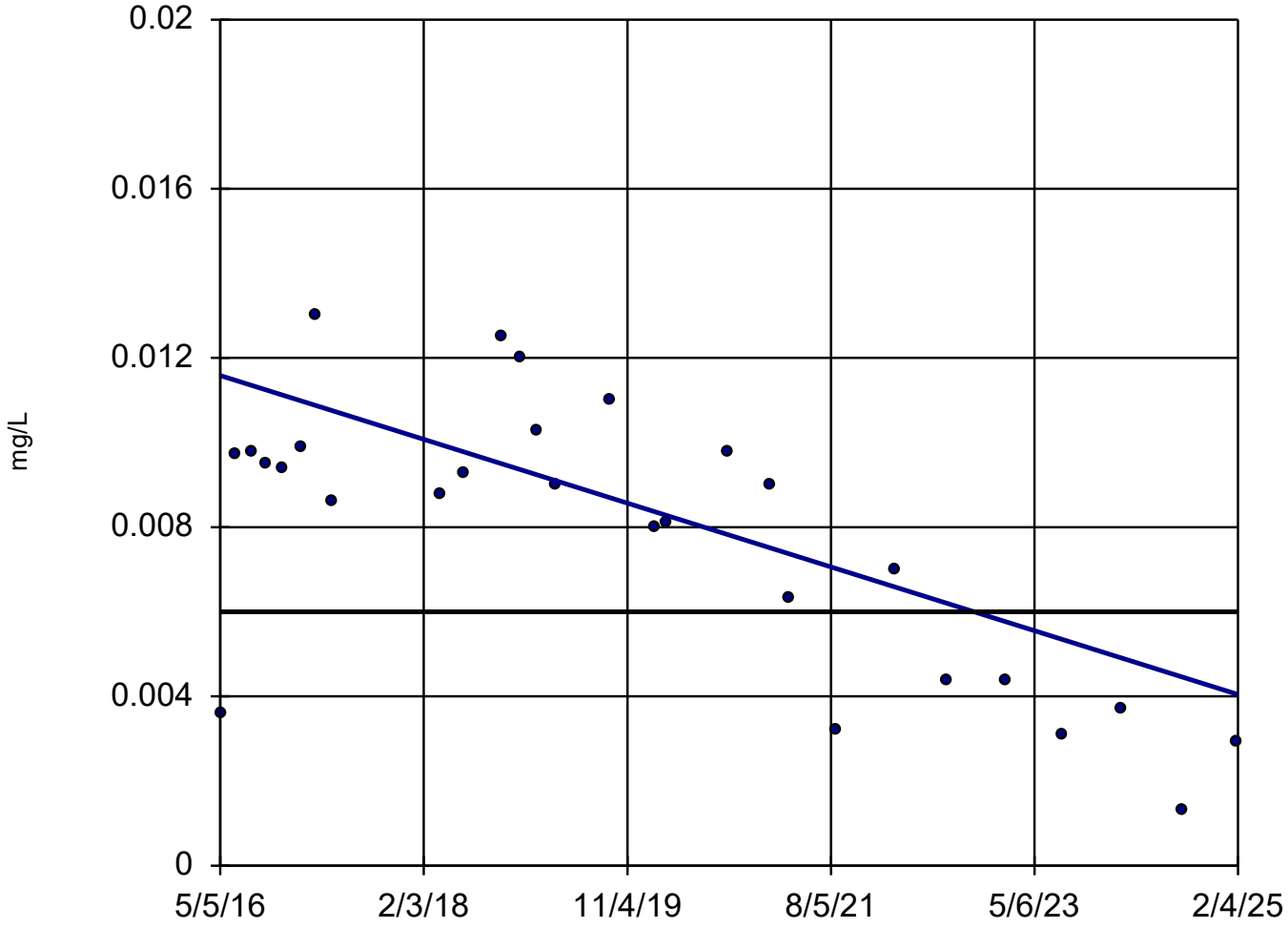
Plant McIntosh Client: Southern Company Data: McIntosh AP-1 Printed 8/12/2025, 3:59 PM

Constituent	Well	Slope	Calc.	Critical	Sig.	N	%NDs	Normality	Alpha	Method
Cobalt (mg/L)	**MGWC-7**	**-0.0008603**	**-189**	**-101**	**Yes**	**28**	**0**	**n/a**	**0.05**	**NP**

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Sen's Slope Estimator

MGWC-7



n = 28

Slope = -0.0008603 units per year.

Mann-Kendall statistic = -189
critical = -101

Decreasing trend significant at 95% confidence level (α = 0.025 per tail).

GWPS = 0.006.

Constituent: Cobalt Analysis Run 3/26/2025 3:40 PM View: Trend Test

Plant McIntosh Client: Southern Company Data: McIntosh AP-1

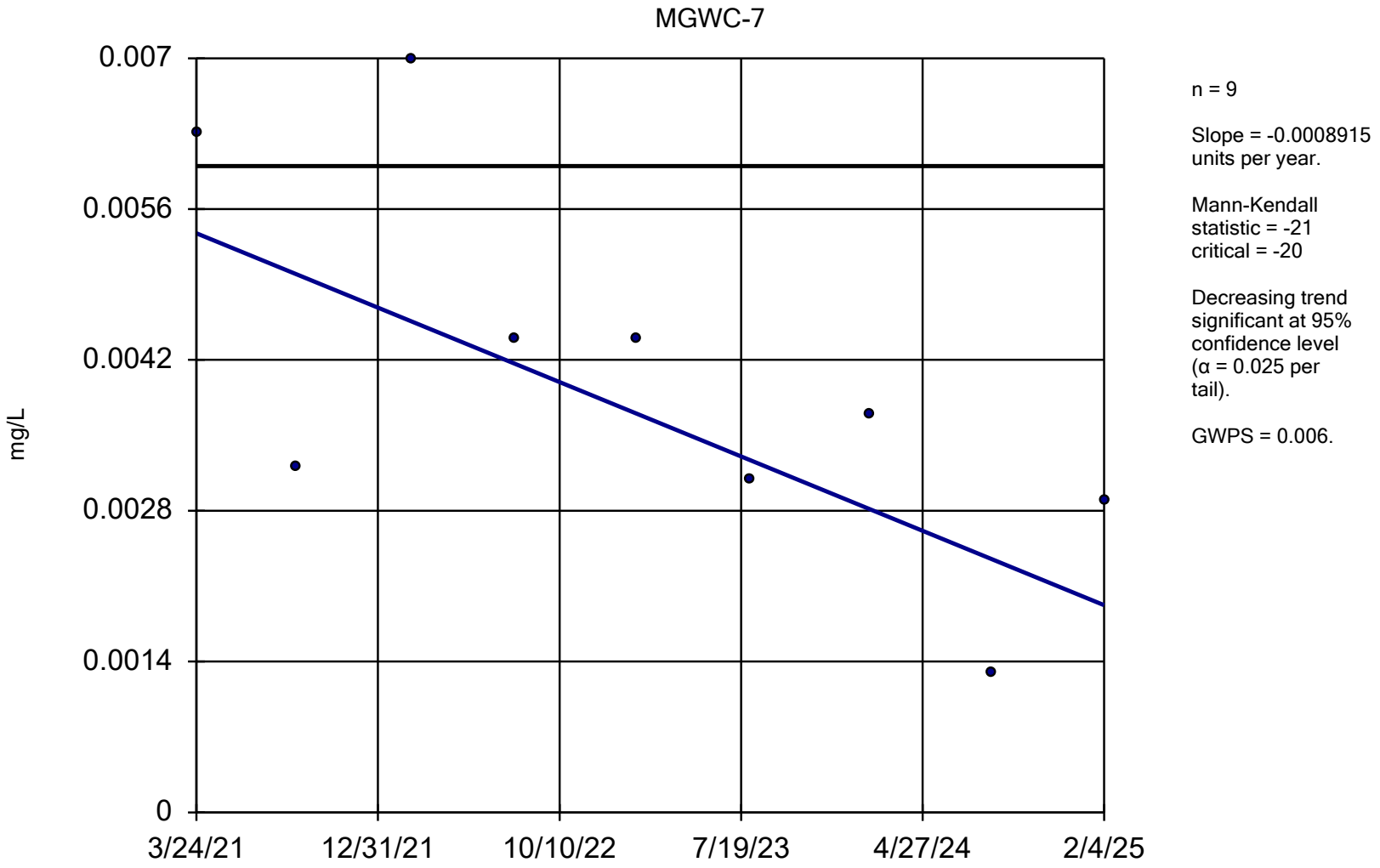
Cobalt MGWC-7 Trend Test - Truncated Record - All Results

Plant McIntosh Client: Southern Company Data: McIntosh AP-1 Printed 3/26/2025, 3:44 PM

Constituent	Well	Slope	Calc.	Critical	Sig.	N	%NDs	Normality	Alpha	Method
Cobalt (mg/L)	**MGWC-7**	**-0.0008915**	**-21**	**-20**	**Yes**	**9**	**0**	**n/a**	**0.05**	**NP**

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Sen's Slope Estimator



Constituent: Cobalt Analysis Run 3/26/2025 3:44 PM View: Trend Test

Plant McIntosh Client: Southern Company Data: McIntosh AP-1

FIGURE H.

PLANT MCINTOSH AP 1 GWPS				
Constituent Name	**MCL**	**CCR-Rule Specified**	**Background Limit**	**GWPS**
Antimony, Total (mg/L)	0.006		0.002	0.006
Arsenic, Total (mg/L)	0.01		0.014	0.014
Barium, Total (mg/L)	2		0.15	2
Beryllium, Total (mg/L)	0.004		0.0025	0.004
Cadmium, Total (mg/L)	0.005		0.0025	0.005
Chromium, Total (mg/L)	0.1		0.0066	0.1
Cobalt, Total (mg/L)	n/a	0.006	0.0025	0.006
Combined Radium, Total (pCi/L)	5		1.25	5
Fluoride, Total (mg/L)	4		0.19	4
Lead, Total (mg/L)	n/a	0.015	0.001	0.015
Lithium, Total (mg/L)	n/a	0.04	0.037	0.04
Mercury, Total (mg/L)	0.002		0.0002	0.002
Molybdenum, Total (mg/L)	n/a	0.1	0.015	0.1
Selenium, Total (mg/L)	0.05		0.005	0.05
Thallium, Total (mg/L)	0.002		0.001	0.002

*Grey cell indicates background is higher than MCL or CCR-Rule

**GWPS = Groundwater Protection Standard*

**MCL = Maximum Contaminant Level*

**CCR = Coal Combustion Residuals*

FIGURE I.

Appendix IV Confidence Intervals - Significant Results

Plant McIntosh Client: Southern Company Data: McIntosh AP-1 Printed 3/26/2025, 3:34 PM

Constituent	Well	Upper Lim.	Lower Lim.	Compliance	Sig.	N	Mean	Std. Dev.	%NDs	ND Adj.	Transform	Alpha	Method
Lithium (mg/L)	**MGWC-7**	**0.1353**	**0.118**	**0.04**	**Yes**	**28**	**0.1255**	**0.01963**	**0**	**None**	**x^2**	**0.01**	**Param.**

Appendix IV Confidence Intervals - All Results

Plant McIntosh Client: Southern Company Data: McIntosh AP-1 Printed 3/26/2025, 3:34 PM

Constituent	Well	Upper Lim.	Lower Lim.	Compliance	Sig.	N	Mean	Std. Dev.	%NDs	ND Adj.	Transform	Alpha	Method
Antimony (mg/L)	MGWC-1	0.002	0.00038	0.006	No	23	0.00193	0.0003378	95.65	None	No	0.01	NP (NDs)
Antimony (mg/L)	MGWC-3	0.002	0.00044	0.006	No	23	0.001858	0.0004701	91.3	None	No	0.01	NP (NDs)
Antimony (mg/L)	MGWC-7	0.002	0.00197	0.006	No	23	0.001934	0.0003105	91.3	None	No	0.01	NP (NDs)
Antimony (mg/L)	MGWC-12	0.002	0.0015	0.006	No	23	0.001909	0.000345	91.3	None	No	0.01	NP (NDs)
Arsenic (mg/L)	MGWC-1	0.002673	0.001902	0.014	No	27	0.002287	0.0008074	0	None	No	0.01	Param.
Arsenic (mg/L)	MGWC-2	0.001	0.00068	0.014	No	27	0.0009293	0.0001818	85.19	None	No	0.01	NP (NDs)
Arsenic (mg/L)	MGWC-3	0.001823	0.001483	0.014	No	27	0.001653	0.0003567	3.704	None	No	0.01	Param.
Arsenic (mg/L)	MGWC-7	0.001	0.00055	0.014	No	27	0.0008596	0.0002696	40.74	None	No	0.01	NP (normality)
Arsenic (mg/L)	MGWC-8	0.001	0.00099	0.014	No	27	0.0009919	0.0003087	59.26	None	No	0.01	NP (NDs)
Arsenic (mg/L)	MGWC-12	0.0009941	0.0006742	0.014	No	27	0.001014	0.0003315	33.33	Kaplan-Meier	sqrt(x)	0.01	Param.
Barium (mg/L)	MGWC-1	0.12	0.097	2	No	27	0.109	0.01617	0	None	No	0.01	NP (normality)
Barium (mg/L)	MGWC-2	0.05294	0.04776	2	No	27	0.05035	0.005431	0	None	No	0.01	Param.
Barium (mg/L)	MGWC-3	0.1569	0.1441	2	No	27	0.1505	0.01347	0	None	No	0.01	Param.
Barium (mg/L)	MGWC-7	0.01634	0.0114	2	No	27	0.01439	0.006291	0	None	x^(1/3)	0.01	Param.
Barium (mg/L)	MGWC-8	0.043	0.034	2	No	27	0.04039	0.01082	0	None	No	0.01	NP (normality)
Barium (mg/L)	MGWC-12	0.06247	0.05103	2	No	27	0.05722	0.01257	0	None	sqrt(x)	0.01	Param.
Beryllium (mg/L)	MGWC-1	0.0025	0.00018	0.004	No	25	0.002407	0.000464	96	None	No	0.01	NP (NDs)
Beryllium (mg/L)	MGWC-3	0.0025	0.00031	0.004	No	25	0.002412	0.000438	96	None	No	0.01	NP (NDs)
Beryllium (mg/L)	MGWC-8	0.001176	0.0006293	0.004	No	25	0.001368	0.000824	24	Kaplan-Meier	No	0.01	Param.
Cadmium (mg/L)	MGWC-1	0.0025	0.0005	0.005	No	27	0.00199	0.0009738	77.78	None	No	0.01	NP (NDs)
Cadmium (mg/L)	MGWC-2	0.002463	0.000997	0.005	No	27	0.001994	0.001842	0	None	sqrt(x)	0.01	Param.
Cadmium (mg/L)	MGWC-7	0.0025	0.00041	0.005	No	27	0.002169	0.0008093	85.19	None	No	0.01	NP (NDs)
Cadmium (mg/L)	MGWC-8	0.002201	0.0008081	0.005	No	27	0.002142	0.00204	22.22	Kaplan-Meier	sqrt(x)	0.01	Param.
Chromium (mg/L)	MGWC-1	0.0023	0.0015	0.1	No	25	0.002032	0.0003671	84	None	No	0.01	NP (NDs)
Chromium (mg/L)	MGWC-2	0.0027	0.002	0.1	No	25	0.00208	0.0002901	92	None	No	0.01	NP (NDs)
Chromium (mg/L)	MGWC-3	0.003	0.002	0.1	No	25	0.00204	0.0002	96	None	No	0.01	NP (NDs)
Chromium (mg/L)	MGWC-7	0.0034	0.0015	0.1	No	25	0.002008	0.0003353	88	None	No	0.01	NP (NDs)
Chromium (mg/L)	MGWC-8	0.0031	0.0013	0.1	No	25	0.002016	0.0002656	92	None	No	0.01	NP (NDs)
Chromium (mg/L)	MGWC-12	0.0032	0.0012	0.1	No	25	0.003096	0.005405	88	None	No	0.01	NP (NDs)
Cobalt (mg/L)	MGWC-1	0.0025	0.00047	0.006	No	28	0.001756	0.001031	64.29	None	No	0.01	NP (NDs)
Cobalt (mg/L)	MGWC-2	0.002971	0.002049	0.006	No	28	0.00251	0.0009869	0	None	No	0.01	Param.
Cobalt (mg/L)	MGWC-3	0.00067	0.00051	0.006	No	28	0.0007414	0.0004484	10.71	None	No	0.01	NP (normality)
Cobalt (mg/L)	MGWC-7	0.005728	0.002339	0.006	No	9	0.004033	0.001755	0	None	No	0.01	Param.
Cobalt (mg/L)	MGWC-8	0.01299	0.005118	0.006	No	28	0.01059	0.008337	0	None	sqrt(x)	0.01	Param.
Cobalt (mg/L)	MGWC-12	0.0025	0.0015	0.006	No	28	0.002381	0.0004744	92.86	None	No	0.01	NP (NDs)
Cobalt (mg/L)	MGWC-20	0.0008567	0.0001608	0.006	No	4	0.000965	0.001033	25	Kaplan-Meier	sqrt(x)	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	MGWC-1	1.825	1.407	5	No	28	1.616	0.4471	0	None	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	MGWC-2	0.7333	0.4388	5	No	27	0.5861	0.3087	0	None	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	MGWC-3	1.745	1.413	5	No	28	1.579	0.355	0	None	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	MGWC-7	1.323	0.9888	5	No	27	1.156	0.35	0	None	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	MGWC-8	1.837	1.313	5	No	27	1.575	0.5494	0	None	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	MGWC-12	0.702	0.4235	5	No	27	0.5627	0.2919	0	None	No	0.01	Param.
Fluoride (mg/L)	MGWC-1	0.2221	0.1478	4	No	26	0.1849	0.07624	7.692	None	No	0.01	Param.
Fluoride (mg/L)	MGWC-2	1	0.076	4	No	26	0.4052	0.4422	34.62	None	No	0.01	NP (normality)
Fluoride (mg/L)	MGWC-3	0.23	0.083	4	No	26	0.2201	0.193	30.77	None	No	0.01	NP (normality)
Fluoride (mg/L)	MGWC-7	0.3389	0.2268	4	No	26	0.2828	0.1149	7.692	None	No	0.01	Param.
Fluoride (mg/L)	MGWC-8	0.15	0.087	4	No	26	0.2715	0.3635	19.23	None	No	0.01	NP (normality)
Fluoride (mg/L)	MGWC-12	0.2473	0.1937	4	No	26	0.2119	0.06791	0	None	x^2	0.01	Param.
Lead (mg/L)	MGWC-1	0.001	0.00058	0.015	No	23	0.0009817	0.00008758	95.65	None	No	0.01	NP (NDs)
Lead (mg/L)	MGWC-2	0.001	0.00027	0.015	No	23	0.0009309	0.0002299	91.3	None	No	0.01	NP (NDs)
Lead (mg/L)	MGWC-3	0.001	0.00034	0.015	No	23	0.0009352	0.0002162	91.3	None	No	0.01	NP (NDs)
Lead (mg/L)	MGWC-7	0.001	0.0003	0.015	No	23	0.0009	0.0002646	86.96	None	No	0.01	NP (NDs)
Lead (mg/L)	MGWC-8	0.001	0.00022	0.015	No	23	0.0009309	0.0002291	91.3	None	No	0.01	NP (NDs)
Lead (mg/L)	MGWC-12	0.001	0.0001	0.015	No	23	0.0009609	0.0001877	95.65	None	No	0.01	NP (NDs)

Appendix IV Confidence Intervals - All Results

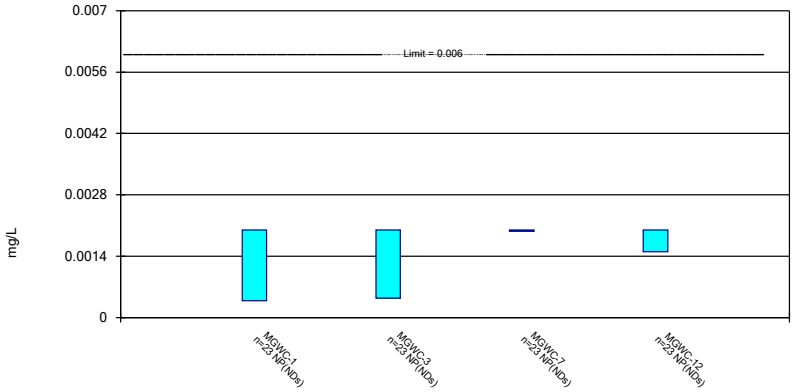
Plant McIntosh Client: Southern Company Data: McIntosh AP-1 Printed 3/26/2025, 3:34 PM

Constituent	Well	Upper Lim.	Lower Lim.	Compliance	Sig.	N	Mean	Std. Dev.	%NDs	ND Adj.	Transform	Alpha	Method
Lithium (mg/L)	MGWC-1	0.01211	0.01019	0.04	No	28	0.01115	0.002055	3.571	None	No	0.01	Param.
Lithium (mg/L)	MGWC-2	0.0066	0.0051	0.04	No	28	0.006563	0.003798	3.571	None	No	0.01	NP (normality)
Lithium (mg/L)	MGWC-3	0.01353	0.01156	0.04	No	28	0.01255	0.002101	0	None	No	0.01	Param.
Lithium (mg/L)	**MGWC-7**	**0.1353**	**0.118**	**0.04**	**Yes**	**28**	**0.1255**	**0.01963**	**0**	**None**	**x^2**	**0.01**	**Param.**
Lithium (mg/L)	MGWC-8	0.03462	0.02278	0.04	No	28	0.0287	0.01267	0	None	No	0.01	Param.
Lithium (mg/L)	MGWC-12	0.02312	0.0179	0.04	No	28	0.02051	0.005584	0	None	No	0.01	Param.
Lithium (mg/L)	MGWC-20	0.01276	0.001556	0.04	No	5	0.00716	0.003344	0	None	No	0.01	Param.
Mercury (mg/L)	MGWC-2	0.0002	0.0001	0.002	No	25	0.0001911	0.0000309	92	None	No	0.01	NP (NDs)
Mercury (mg/L)	MGWC-3	0.0002	0.00007	0.002	No	25	0.0001948	0.000026	96	None	No	0.01	NP (NDs)
Mercury (mg/L)	MGWC-7	0.0002	0.00008	0.002	No	25	0.0001952	0.000024	96	None	No	0.01	NP (NDs)
Mercury (mg/L)	MGWC-8	0.00051	0.00015	0.002	No	26	0.0005118	0.0008753	30.77	None	No	0.01	NP (normality)
Mercury (mg/L)	MGWC-12	0.0002	0.000086	0.002	No	25	0.0001904	0.00003327	92	None	No	0.01	NP (NDs)
Molybdenum (mg/L)	MGWC-1	0.002	0.0011	0.1	No	25	0.01321	0.02753	16	None	No	0.01	NP (normality)
Molybdenum (mg/L)	MGWC-7	0.015	0.00351	0.1	No	25	0.01454	0.002298	96	None	No	0.01	NP (NDs)
Molybdenum (mg/L)	MGWC-8	0.015	0.0037	0.1	No	25	0.01455	0.00226	96	None	No	0.01	NP (NDs)
Molybdenum (mg/L)	MGWC-12	0.015	0.0024	0.1	No	25	0.01174	0.005923	76	None	No	0.01	NP (NDs)
Selenium (mg/L)	MGWC-1	0.005	0.0005	0.05	No	21	0.004565	0.001375	90.48	None	No	0.01	NP (NDs)
Selenium (mg/L)	MGWC-2	0.005	0.00045	0.05	No	21	0.004783	0.0009929	95.24	None	No	0.01	NP (NDs)
Selenium (mg/L)	MGWC-3	0.005	0.00044	0.05	No	21	0.004783	0.0009951	95.24	None	No	0.01	NP (NDs)
Selenium (mg/L)	MGWC-7	0.005	0.00026	0.05	No	21	0.004774	0.001034	95.24	None	No	0.01	NP (NDs)
Selenium (mg/L)	MGWC-8	0.005	0.0024	0.05	No	21	0.003989	0.001898	76.19	None	No	0.01	NP (NDs)
Selenium (mg/L)	MGWC-12	0.005	0.00027	0.05	No	21	0.004775	0.001032	95.24	None	No	0.01	NP (NDs)
Thallium (mg/L)	MGWC-1	0.001	0.00032	0.002	No	25	0.0007986	0.0003678	76	None	No	0.01	NP (NDs)
Thallium (mg/L)	MGWC-2	0.001	0.00021	0.002	No	25	0.0009684	0.000158	96	None	No	0.01	NP (NDs)
Thallium (mg/L)	MGWC-3	0.001	0.00037	0.002	No	25	0.0009412	0.0002058	92	None	No	0.01	NP (NDs)
Thallium (mg/L)	MGWC-7	0.001	0.00016	0.002	No	25	0.0009664	0.000168	96	None	No	0.01	NP (NDs)
Thallium (mg/L)	MGWC-8	0.001	0.00019	0.002	No	25	0.0005396	0.0003911	40	None	No	0.01	NP (normality)
Thallium (mg/L)	MGWC-12	0.001	0.00027	0.002	No	25	0.0009368	0.0002194	92	None	No	0.01	NP (NDs)

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Non-Parametric Confidence Interval

Compliance Limit is not exceeded. Per-well alpha = 0.01.

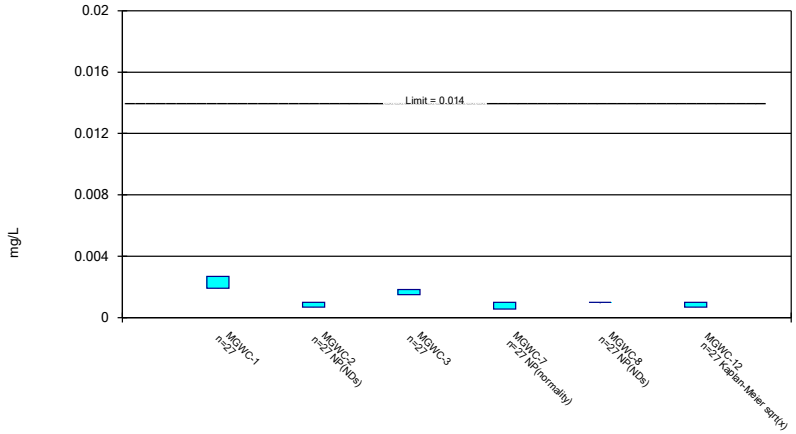


Constituent: Antimony Analysis Run 3/26/2025 3:30 PM View: Confidence Intervals
Plant McIntosh Client: Southern Company Data: McIntosh AP-1

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Parametric and Non-Parametric (NP) Confidence Interval

Compliance Limit is not exceeded. Per-well alpha = 0.01. Normality Test: Shapiro Wilk, alpha based on n.

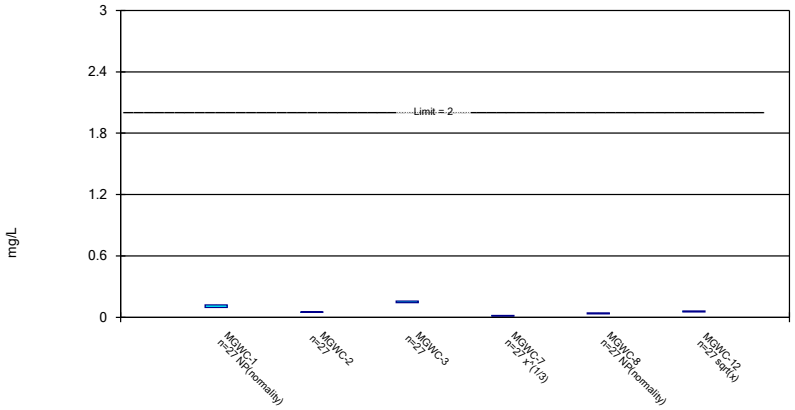


Constituent: Arsenic Analysis Run 3/26/2025 3:30 PM View: Confidence Intervals
Plant McIntosh Client: Southern Company Data: McIntosh AP-1

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Parametric and Non-Parametric (NP) Confidence Interval

Compliance Limit is not exceeded. Per-well alpha = 0.01. Normality Test: Shapiro Wilk, alpha based on n.

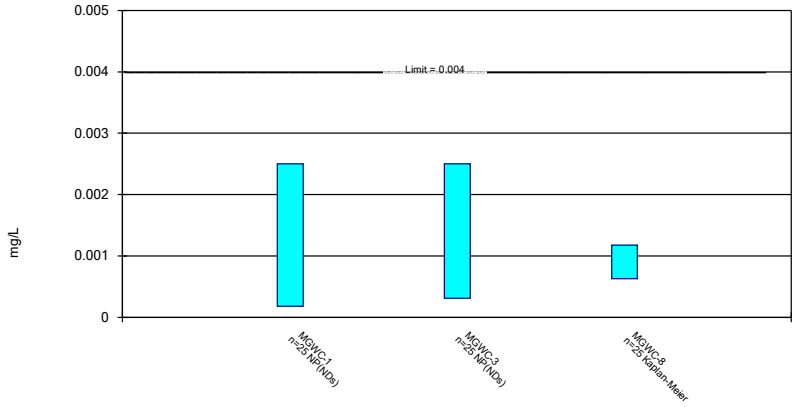


Constituent: Barium Analysis Run 3/26/2025 3:30 PM View: Confidence Intervals
Plant McIntosh Client: Southern Company Data: McIntosh AP-1

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Parametric and Non-Parametric (NP) Confidence Interval

Compliance Limit is not exceeded. Per-well alpha = 0.01. Normality Test: Shapiro Wilk, alpha based on n.

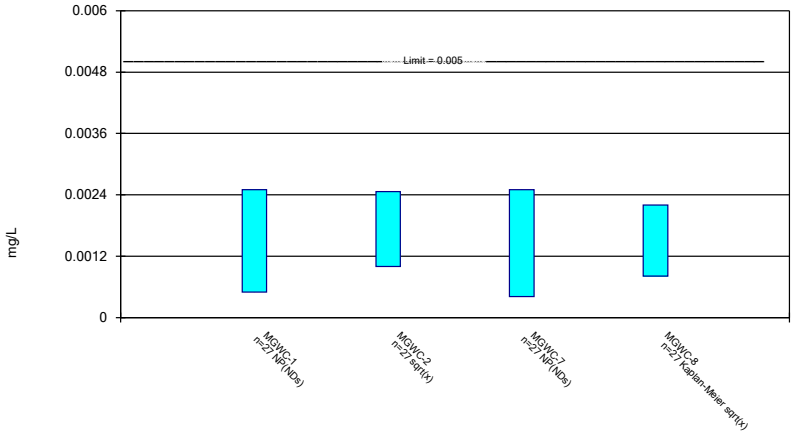


Constituent: Beryllium Analysis Run 3/26/2025 3:31 PM View: Confidence Intervals
Plant McIntosh Client: Southern Company Data: McIntosh AP-1

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Parametric and Non-Parametric (NP) Confidence Interval

Compliance Limit is not exceeded. Per-well alpha = 0.01. Normality Test: Shapiro Wilk, alpha based on n.

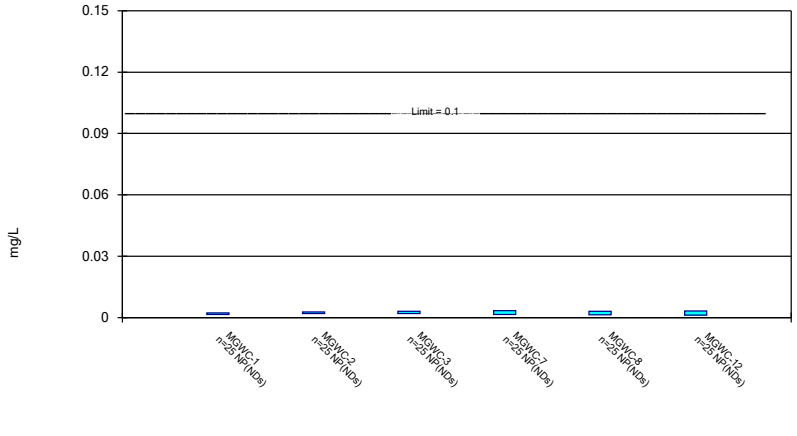


Constituent: Cadmium Analysis Run 3/26/2025 3:31 PM View: Confidence Intervals
Plant McIntosh Client: Southern Company Data: McIntosh AP-1

Sanitas™ v.10.0.24 Software licensed to Groundwater Stats Consulting. UG

Non-Parametric Confidence Interval

Compliance Limit is not exceeded. Per-well alpha = 0.01.

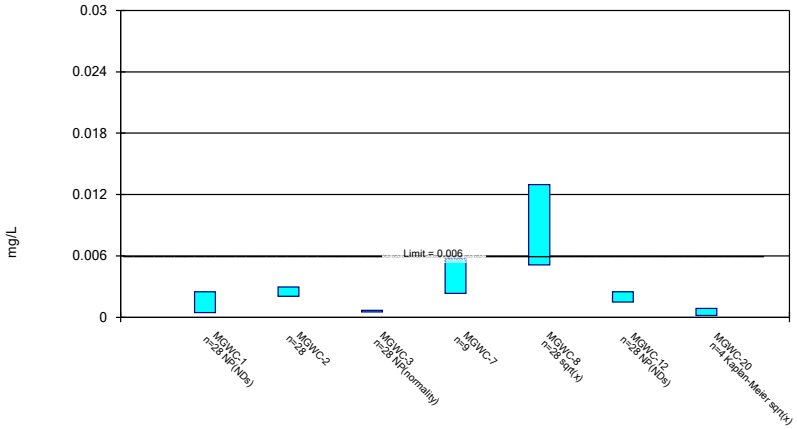


Constituent: Chromium Analysis Run 3/26/2025 3:31 PM View: Confidence Intervals
Plant McIntosh Client: Southern Company Data: McIntosh AP-1

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Parametric and Non-Parametric (NP) Confidence Interval

Compliance Limit is not exceeded. Per-well alpha = 0.01. Normality Test: Shapiro Wilk, alpha based on n.

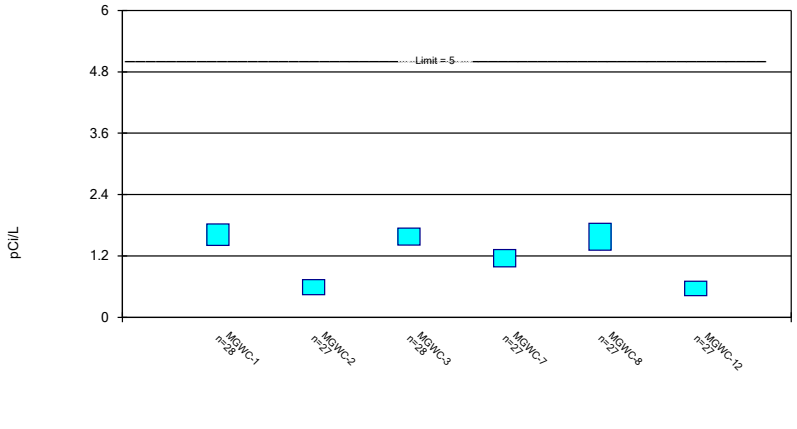


Constituent: Cobalt Analysis Run 3/26/2025 3:31 PM View: Confidence Intervals
Plant McIntosh Client: Southern Company Data: McIntosh AP-1

Sanitas™ v.10.0.24 Software licensed to Groundwater Stats Consulting. UG

Parametric Confidence Interval

Compliance Limit is not exceeded. Per-well alpha = 0.01. Normality Test: Shapiro Wilk, alpha based on n.

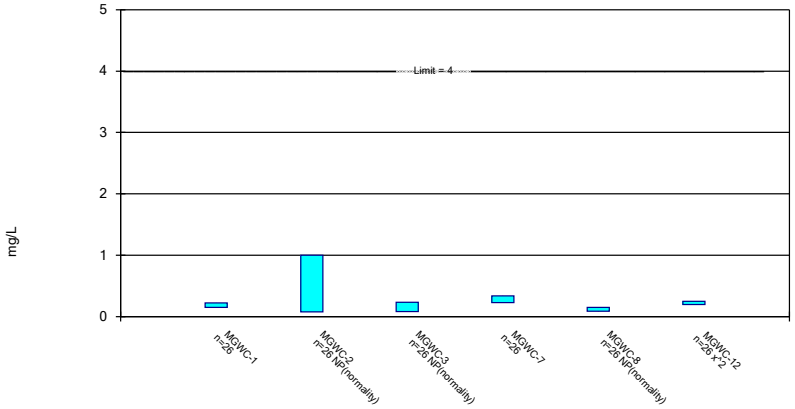


Constituent: Combined Radium 226 + 228 Analysis Run 3/26/2025 3:31 PM View: Confidence Intervals
Plant McIntosh Client: Southern Company Data: McIntosh AP-1

Sanitas™ v.10.0.24 Software licensed to Groundwater Stats Consulting. UG

Parametric and Non-Parametric (NP) Confidence Interval

Compliance Limit is not exceeded. Per-well alpha = 0.01. Normality Test: Shapiro Wilk, alpha based on n.

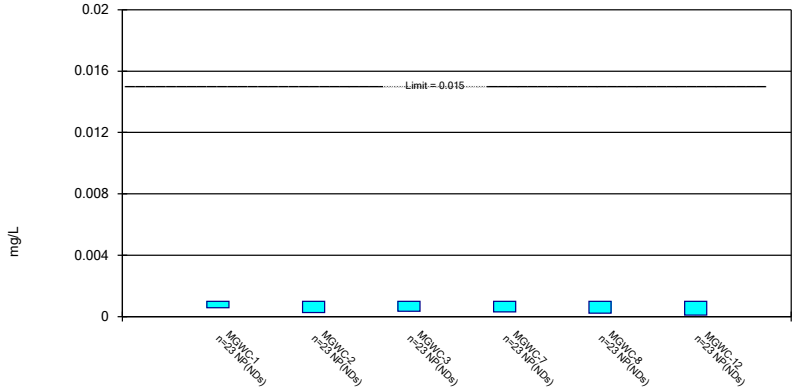


Constituent: Fluoride Analysis Run 3/26/2025 3:31 PM View: Confidence Intervals
Plant McIntosh Client: Southern Company Data: McIntosh AP-1

Sanitas™ v.10.0.24 Software licensed to Groundwater Stats Consulting. UG

Non-Parametric Confidence Interval

Compliance Limit is not exceeded. Per-well alpha = 0.01.

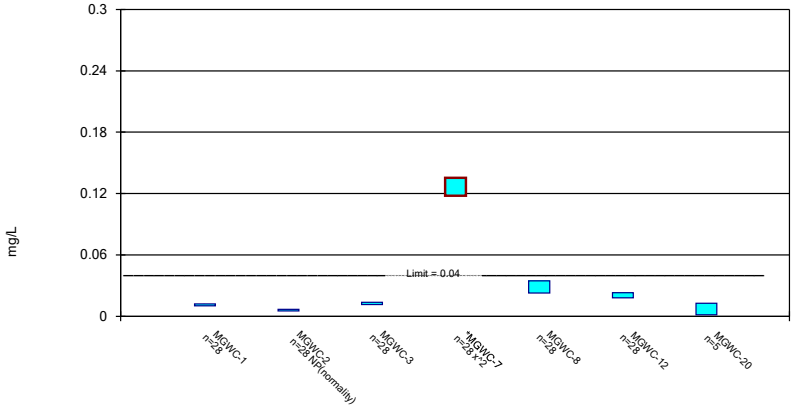


Constituent: Lead Analysis Run 3/26/2025 3:31 PM View: Confidence Intervals
Plant McIntosh Client: Southern Company Data: McIntosh AP-1

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Parametric and Non-Parametric (NP) Confidence Interval

Compliance limit is exceeded.* Per-well alpha = 0.01. Normality Test: Shapiro Wilk, alpha based on n.

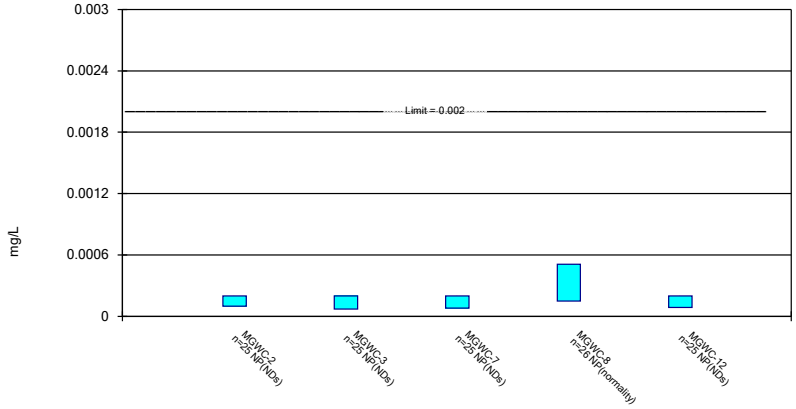


Constituent: Lithium Analysis Run 3/26/2025 3:31 PM View: Confidence Intervals
Plant McIntosh Client: Southern Company Data: McIntosh AP-1

Sanitas™ v.10.0.24 Software licensed to Groundwater Stats Consulting. UG

Non-Parametric Confidence Interval

Compliance Limit is not exceeded. Per-well alpha = 0.01.

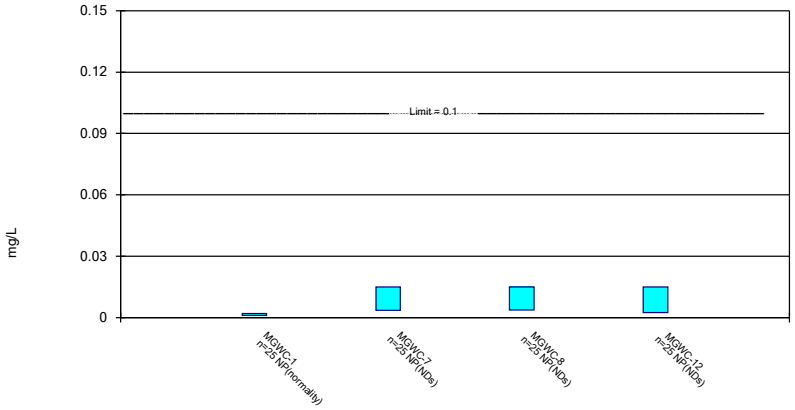


Constituent: Mercury Analysis Run 3/26/2025 3:31 PM View: Confidence Intervals
Plant McIntosh Client: Southern Company Data: McIntosh AP-1

Sanitas™ v.10.0.24 Software licensed to Groundwater Stats Consulting. UG

Non-Parametric Confidence Interval

Compliance Limit is not exceeded. Per-well alpha = 0.01.

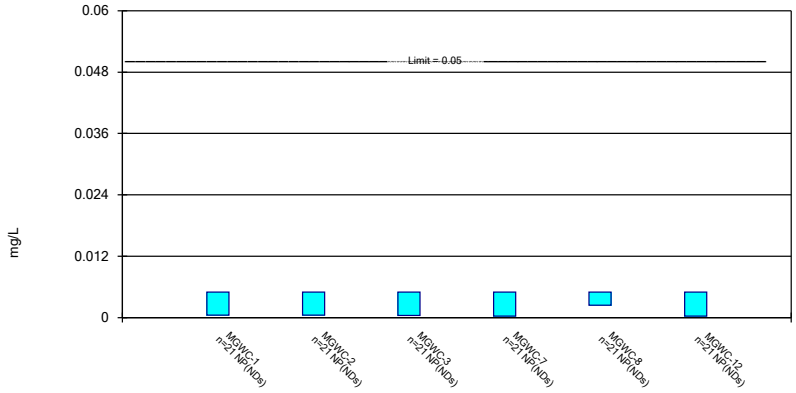


Constituent: Molybdenum Analysis Run 3/26/2025 3:31 PM View: Confidence Intervals
Plant McIntosh Client: Southern Company Data: McIntosh AP-1

Sanitas™ v.10.0.24 Software licensed to Groundwater Stats Consulting. UG

Non-Parametric Confidence Interval

Compliance Limit is not exceeded. Per-well alpha = 0.01.

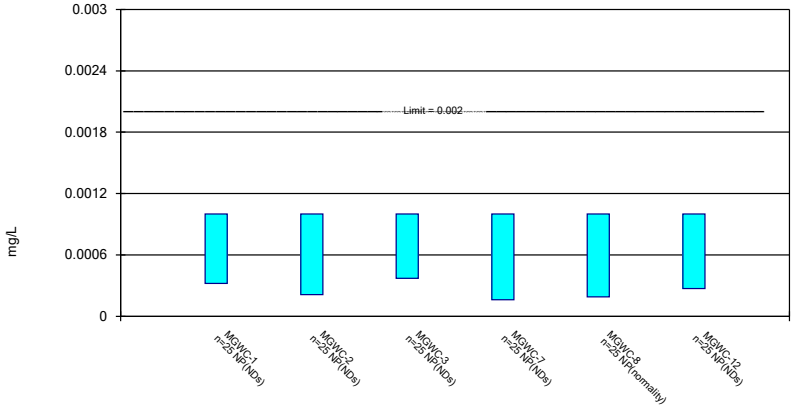


Constituent: Selenium Analysis Run 3/26/2025 3:31 PM View: Confidence Intervals
Plant McIntosh Client: Southern Company Data: McIntosh AP-1

Sanitas™ v.10.0.24 Software licensed to Groundwater Stats Consulting. UG

Non-Parametric Confidence Interval

Compliance Limit is not exceeded. Per-well alpha = 0.01.



Constituent: Thallium Analysis Run 3/26/2025 3:31 PM View: Confidence Intervals
Plant McIntosh Client: Southern Company Data: McIntosh AP-1

Confidence Interval

Constituent: Antimony (mg/L) Analysis Run 3/26/2025 3:34 PM View: Confidence Intervals

Plant McIntosh Client: Southern Company Data: McIntosh AP-1

	MGWC-1	MGWC-3	MGWC-7	MGWC-12
5/5/2016			0.00197 (J)	
5/6/2016	<0.002	<0.002		
6/21/2016	<0.002	0.0003 (J)	<0.002	0.0004 (J)
8/15/2016			<0.002	
8/16/2016	<0.002	<0.002		<0.002
9/28/2016	<0.002		<0.002	
9/29/2016		<0.002		<0.002
11/16/2016	<0.002	<0.002	<0.002	<0.002
1/17/2017		<0.002	<0.002	
1/18/2017				<0.002
1/19/2017	<0.002			
3/2/2017	<0.002	<0.002	<0.002	<0.002
4/18/2017	<0.002	<0.002	<0.002	
4/25/2017				<0.002
7/13/2017				<0.002
3/29/2018	<0.002		<0.002	<0.002
3/30/2018		<0.002		
1/29/2019	<0.002	<0.002	<0.002	<0.002
1/28/2020			<0.002	<0.002
1/29/2020	<0.002	<0.002		
3/10/2020	<0.002	<0.002	<0.002	<0.002
9/16/2020				<0.002
9/17/2020	<0.002	<0.002	<0.002	
1/26/2021	0.00038 (J)	0.00044 (J)	<0.002	<0.002
3/24/2021	<0.002	<0.002	<0.002	<0.002
8/24/2021		<0.002		
8/25/2021	<0.002		<0.002	<0.002
2/22/2022	<0.002			<0.002
2/23/2022		<0.002	<0.002	
8/2/2022				0.0015 (J)
8/3/2022	<0.002	<0.002	<0.002	
2/7/2023		<0.002		<0.002
2/8/2023	<0.002		0.00051 (J)	
8/1/2023	<0.002	<0.002		
8/2/2023			<0.002	<0.002
2/6/2024	<0.002		<0.002	
2/7/2024		<0.002		<0.002
8/13/2024	<0.002			
8/14/2024		<0.002	<0.002	<0.002
2/4/2025	<0.002	<0.002	<0.002	<0.002
Mean	0.00193	0.001858	0.001934	0.001909
Std. Dev.	0.0003378	0.0004701	0.0003105	0.000345
Upper Lim.	0.002	0.002	0.002	0.002
Lower Lim.	0.00038	0.00044	0.00197	0.0015

ND substitution: RL or RL/2 if <15% NDs.

Confidence Interval

Constituent: Arsenic (mg/L) Analysis Run 3/26/2025 3:34 PM View: Confidence Intervals
Plant McIntosh Client: Southern Company Data: McIntosh AP-1

	MGWC-1	MGWC-2	MGWC-3	MGWC-7	MGWC-8	MGWC-12
5/5/2016				0.00143 (J)	<0.001	
5/6/2016	0.00299 (J)	<0.001	0.00154 (J)			
6/21/2016	0.0047 (J)	<0.001	0.0016 (J)	0.0009 (J)	<0.001	0.0015 (J)
8/15/2016				0.0012 (J)	<0.001	
8/16/2016	0.003	<0.001	0.0017			0.00082 (J)
9/28/2016	0.0036			0.00084 (J)	<0.001	
9/29/2016		<0.001	0.0013			0.0019
11/16/2016	0.003	0.00068 (J)	0.0014	<0.001	<0.001	0.0017
1/17/2017			0.00056 (J)	<0.001	<0.001	
1/18/2017		<0.001				0.00096 (J)
1/19/2017	0.0024					
3/2/2017	0.0027	0.00065 (J)	0.0018	0.0009 (J)	<0.001	0.00082 (J)
4/18/2017	0.0024		0.0018	0.0005 (J)	0.00059 (J)	
4/19/2017		<0.001				
4/25/2017						<0.001
7/13/2017						0.00047 (J)
3/29/2018	0.0023			0.00066 (J)		0.00053 (J)
3/30/2018		<0.001	0.0017		<0.001	
6/12/2018						0.00063 (J)
6/13/2018	0.0021	<0.001	0.0015	<0.001	<0.001	
10/10/2018	0.0024	<0.001	0.0016	<0.001	<0.001	0.00098 (J)
1/29/2019	0.00255	<0.001	0.00143	<0.001	<0.001	<0.001
3/26/2019	0.002	<0.001	0.0012 (J)	<0.001	<0.001	0.00079 (J)
9/10/2019	0.0018	0.00036 (J)	0.0017	0.00074 (J)	0.00056 (J)	0.0011
1/28/2020				0.00046 (J)		0.00051 (J)
1/29/2020	0.0021	0.0004 (J)	0.0017		0.00047 (J)	
3/10/2020	0.0019	<0.001	<0.005	<0.001	<0.001	<0.001
9/16/2020		<0.001				<0.001
9/17/2020	0.002		0.0015	0.00045 (J)	<0.001	
1/26/2021	0.0033	<0.001	0.0018	<0.001	<0.001	<0.001
3/24/2021	0.0024	<0.001	0.0018	0.00046 (J)	0.00099 (J)	<0.001
8/24/2021		<0.001	0.0014			
8/25/2021	0.00092 (J)			0.00055 (J)	<0.001	<0.001
2/22/2022	0.0014					0.00089 (J)
2/23/2022		<0.001	0.0016	0.0004 (J)	0.00044 (J)	
8/2/2022						0.0015
8/3/2022	0.0015		0.0016	0.00052 (J)		
8/4/2022		<0.001			0.00075 (J)	
2/7/2023			0.0018			0.00098 (J)
2/8/2023	0.0016	<0.001		<0.001	0.001	
8/1/2023	0.0012		0.0017		0.00098 (J)	
8/2/2023		<0.001		<0.001		<0.001
2/6/2024	0.0023			0.0012		
2/7/2024		<0.001	0.0021		0.0017	0.0012
8/13/2024	0.0018					
8/14/2024		<0.001	0.0022	<0.001	0.0019	<0.001
2/4/2025	0.0014		0.0021	0.001	0.0014	0.0011
2/5/2025		<0.001				
Mean	0.002287	0.0009293	0.001653	0.0008596	0.0009919	0.001014
Std. Dev.	0.0008074	0.0001818	0.0003567	0.0002696	0.0003087	0.0003315
Upper Lim.	0.002673	0.001	0.001823	0.001	0.001	0.0009941
Lower Lim.	0.001902	0.00068	0.001483	0.00055	0.00099	0.0006742

ND substitution: RL or RL/2 if <15% NDs.

Confidence Interval

Constituent: Barium (mg/L) Analysis Run 3/26/2025 3:34 PM View: Confidence Intervals
Plant McIntosh Client: Southern Company Data: McIntosh AP-1

	MGWC-1	MGWC-2	MGWC-3	MGWC-7	MGWC-8	MGWC-12
5/5/2016				0.039	0.0364	
5/6/2016	0.11	0.0605	0.151			
6/21/2016	0.165	0.0613	0.174	0.0152	0.0386	0.0439
8/15/2016				0.015	0.03	
8/16/2016	0.094	0.052	0.13			0.041
9/28/2016	0.1			0.014	0.034	
9/29/2016		0.053	0.14			0.052
11/16/2016	0.096	0.056	0.14	0.013	0.034	0.044
1/17/2017			0.16	0.014	0.038	
1/18/2017		0.06				0.056
1/19/2017	0.12					
3/2/2017	0.097	0.056	0.15	0.013	0.037	0.04
4/18/2017	0.092		0.14	0.011	0.04	
4/19/2017		0.051				
4/25/2017						0.042
7/13/2017						0.043
3/29/2018	0.095			0.01		0.061
3/30/2018		0.049	0.13		0.041	
6/12/2018						0.063
6/13/2018	0.096	0.05	0.14	0.0098	0.038	
10/10/2018	0.095	0.046	0.13	0.011	0.035	0.071
1/29/2019	0.107	0.0496	0.138	0.00873	0.0344	0.06
3/26/2019	0.096	0.048	0.13	0.0086	0.032	0.06
9/10/2019	0.11	0.053	0.15	0.012	0.035	0.073
1/28/2020				0.012		0.069
1/29/2020	0.11	0.051	0.15		0.033	
3/10/2020	0.13	0.049	0.15	0.013	0.036	0.056
9/16/2020		0.048				0.1
9/17/2020	0.11		0.16	0.0091 (J)	0.028	
1/26/2021	0.14	0.049	0.16	0.007 (J)	0.028	0.06
3/24/2021	0.1	0.049	0.16	0.011	0.054	0.056
8/24/2021		0.047	0.16			
8/25/2021	0.11			0.013	0.031	0.051
2/22/2022	0.11					0.067
2/23/2022		0.046	0.17	0.014	0.036	
8/2/2022						0.057
8/3/2022	0.11		0.15	0.018		
8/4/2022		0.042			0.043	
2/7/2023			0.16			0.06
2/8/2023	0.1	0.044		0.02	0.052	
8/1/2023	0.1		0.16		0.056	
8/2/2023		0.04		0.015		0.055
2/6/2024	0.12			0.024		
2/7/2024		0.047	0.18		0.061	0.055
8/13/2024	0.11					
8/14/2024		0.045	0.15	0.019	0.064	0.048
2/4/2025	0.12		0.15	0.019	0.065	0.061
2/5/2025		0.057				
Mean	0.109	0.05035	0.1505	0.01439	0.04039	0.05722
Std. Dev.	0.01617	0.005431	0.01347	0.006291	0.01082	0.01257
Upper Lim.	0.12	0.05294	0.1569	0.01634	0.043	0.06247
Lower Lim.	0.097	0.04776	0.1441	0.0114	0.034	0.05103

Confidence Interval

Constituent: Beryllium (mg/L) Analysis Run 3/26/2025 3:34 PM View: Confidence Intervals
Plant McIntosh Client: Southern Company Data: McIntosh AP-1

	MGWC-1	MGWC-3	MGWC-8
5/5/2016			<0.0025
5/6/2016	<0.0025	<0.0025	
6/21/2016	<0.0025	<0.0025	0.0004 (J)
8/15/2016			0.00053 (J)
8/16/2016	<0.0025	<0.0025	
9/28/2016	<0.0025		0.00049 (J)
9/29/2016		<0.0025	
11/16/2016	<0.0025	<0.0025	0.0004 (J)
1/17/2017		<0.0025	0.00084 (J)
1/19/2017	<0.0025		
3/2/2017	<0.0025	<0.0025	0.00068 (J)
4/18/2017	<0.0025	<0.0025	0.00067 (J)
3/29/2018	<0.0025		
3/30/2018		<0.0025	0.0015 (J)
6/13/2018	<0.0025	<0.0025	0.0012 (J)
10/10/2018	<0.0025	<0.0025	0.0016 (J)
1/29/2019	<0.0025	<0.0025	<0.0025
1/29/2020	0.00018 (J)	0.00031 (J)	0.0019
3/10/2020	<0.0025	<0.0025	0.0013 (J)
9/17/2020	<0.0025	<0.0025	0.0019 (J)
1/26/2021	<0.0025	<0.0025	0.0018 (J)
3/24/2021	<0.0025	<0.0025	<0.0025
8/24/2021		<0.0025	
8/25/2021	<0.0025		0.0015 (J)
2/22/2022	<0.0025		
2/23/2022		<0.0025	0.0014 (J)
8/3/2022	<0.0025	<0.0025	
8/4/2022			0.00064 (J)
2/7/2023		<0.0025	
2/8/2023	<0.0025		0.0002 (J)
8/1/2023	<0.0025	<0.0025	0.00025 (J)
2/6/2024	<0.0025		
2/7/2024		<0.0025	<0.0025
8/13/2024	<0.0025		
8/14/2024		<0.0025	<0.0025
2/4/2025	<0.0025	<0.0025	<0.0025
Mean	0.002407	0.002412	0.001368
Std. Dev.	0.000464	0.000438	0.000824
Upper Lim.	0.0025	0.0025	0.001176
Lower Lim.	0.00018	0.00031	0.0006293

ND substitution: RL or RL/2 if <15% NDs.

Confidence Interval

Constituent: Cadmium (mg/L) Analysis Run 3/26/2025 3:34 PM View: Confidence Intervals

Plant McIntosh Client: Southern Company Data: McIntosh AP-1

	MGWC-1	MGWC-2	MGWC-7	MGWC-8
5/5/2016			<0.0025	0.000784 (J)
5/6/2016	0.000126 (J)	0.00166		
6/21/2016	0.0005 (J)	0.0008 (J)	<0.0025	0.0003 (J)
8/15/2016			<0.0025	<0.0025
8/16/2016	<0.0025	0.0034		
9/28/2016	<0.0025		<0.0025	<0.0025
9/29/2016		0.0027		
11/16/2016	<0.0025	0.0022 (J)	<0.0025	<0.0025
1/17/2017			<0.0025	<0.0025
1/18/2017		0.008		
1/19/2017	<0.0025			
3/2/2017	<0.0025	0.005	<0.0025	<0.0025
4/18/2017	<0.0025		<0.0025	0.00044 (J)
4/19/2017		0.0011 (J)		
3/29/2018	<0.0025		<0.0025	
3/30/2018		0.0016 (J)		0.00058 (J)
6/13/2018	<0.0025	0.0016 (J)	<0.0025	0.00076 (J)
10/10/2018	<0.0025	0.001 (J)	<0.0025	0.00035 (J)
1/29/2019	<0.0025	0.00315	<0.0025	<0.0025
3/26/2019	<0.0025	0.0019 (J)	<0.0025	0.0005 (J)
9/10/2019	0.00017 (J)	0.0011	<0.0025	0.00079 (J)
1/28/2020			<0.0025	
1/29/2020	<0.0025	0.0054		0.0009 (J)
3/10/2020	<0.0025	0.0011 (J)	<0.0025	0.0011 (J)
9/16/2020		0.00053 (J)		
9/17/2020	<0.0025		0.00023 (J)	0.00072 (J)
1/26/2021	0.00024 (J)	0.0011 (J)	<0.0025	0.0016 (J)
3/24/2021	<0.0025	0.0022 (J)	<0.0025	0.001 (J)
8/24/2021		0.00054 (J)		
8/25/2021	<0.0025		<0.0025	0.0046
2/22/2022	<0.0025			
2/23/2022		0.0039	<0.0025	0.0014 (J)
8/3/2022	8.5E-05 (J)		0.00041 (J)	
8/4/2022		0.0002 (J)		0.0037
2/8/2023	0.00012 (J)	0.0021 (J)	<0.0025	0.0018 (J)
8/1/2023	<0.0025			0.002 (J)
8/2/2023		0.00032 (J)	0.00031 (J)	
2/6/2024	<0.0025		<0.0025	
2/7/2024		0.00034 (J)		0.0034
8/13/2024	<0.0025			
8/14/2024		0.00068 (J)	0.00012 (J)	0.0085
2/4/2025	<0.0025		<0.0025	0.0076
2/5/2025		0.00021 (J)		
Mean	0.00199	0.001994	0.002169	0.002142
Std. Dev.	0.0009738	0.001842	0.0008093	0.00204
Upper Lim.	0.0025	0.002463	0.0025	0.002201
Lower Lim.	0.0005	0.000997	0.00041	0.0008081

ND substitution: RL or RL/2 if <15% NDs.

Confidence Interval

Constituent: Chromium (mg/L) Analysis Run 3/26/2025 3:34 PM View: Confidence Intervals

Plant McIntosh Client: Southern Company Data: McIntosh AP-1

	MGWC-1	MGWC-2	MGWC-3	MGWC-7	MGWC-8	MGWC-12
5/5/2016				<0.002	<0.002	
5/6/2016	<0.002	<0.002	<0.002			
6/21/2016	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002
8/15/2016				<0.002	<0.002	
8/16/2016	<0.002	<0.002	<0.002			<0.002
9/28/2016	<0.002			<0.002	<0.002	
9/29/2016		<0.002	<0.002			<0.002
11/16/2016	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002
1/17/2017			<0.002	<0.002	<0.002	
1/18/2017		<0.002				<0.002
1/19/2017	<0.002					
3/2/2017	0.0036	0.0033	0.003	0.0034	0.0031	0.0032
4/18/2017	<0.002		<0.002	<0.002	<0.002	
4/19/2017		<0.002				
4/25/2017						<0.002
7/13/2017						<0.002
3/29/2018	<0.002			<0.002		<0.002
3/30/2018		<0.002	<0.002		<0.002	
6/12/2018						<0.002
6/13/2018	<0.002	<0.002	<0.002	<0.002	<0.002	
10/10/2018	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002
1/29/2019	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002
1/28/2020				0.0015 (J)		<0.002
1/29/2020	<0.002	<0.002	<0.002		<0.002	
3/10/2020	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002
9/16/2020		<0.002				0.029
9/17/2020	<0.002		<0.002	<0.002	<0.002	
1/26/2021	0.0023	<0.002	<0.002	<0.002	<0.002	<0.002
3/24/2021	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002
8/24/2021		<0.002	<0.002			
8/25/2021	<0.002			<0.002	<0.002	<0.002
2/22/2022	<0.002					<0.002
2/23/2022		<0.002	<0.002	<0.002	<0.002	
8/2/2022						<0.002
8/3/2022	<0.002		<0.002	<0.002		
8/4/2022		<0.002			<0.002	
2/7/2023			<0.002			0.0012 (J)
2/8/2023	0.0014 (J)	<0.002		0.0013 (J)	0.0013 (J)	
8/1/2023	<0.002		<0.002		<0.002	
8/2/2023		<0.002		<0.002		<0.002
2/6/2024	<0.002			<0.002		
2/7/2024		<0.002	<0.002		<0.002	<0.002
8/13/2024	<0.002					
8/14/2024		<0.002	<0.002	<0.002	<0.002	<0.002
2/4/2025	0.0015 (J)		<0.002	<0.002	<0.002	<0.002
2/5/2025		0.0027				
Mean	0.002032	0.00208	0.00204	0.002008	0.002016	0.003096
Std. Dev.	0.0003671	0.0002901	0.0002	0.0003353	0.0002656	0.005405
Upper Lim.	0.0023	0.0027	0.003	0.0034	0.0031	0.0032
Lower Lim.	0.0015	0.002	0.002	0.0015	0.0013	0.0012

ND substitution: RL or RL/2 if <15% NDs.

Confidence Interval

Constituent: Cobalt (mg/L) Analysis Run 3/26/2025 3:34 PM View: Confidence Intervals

Plant McIntosh Client: Southern Company Data: McIntosh AP-1

	MGWC-1	MGWC-2	MGWC-3	MGWC-7	MGWC-8	MGWC-12	MGWC-20
5/5/2016				0.0036 (J)	0.00359 (J)		
5/6/2016	<0.0025	0.00311 (J)	<0.0025				
6/21/2016	0.0012 (J)	0.0031 (J)	0.0006 (J)	0.0097 (J)	0.0033 (J)	<0.0025	
8/15/2016				0.0098	0.0038		
8/16/2016	0.00047 (J)	0.0034	0.00064 (J)			<0.0025	
9/28/2016	0.00058 (J)			0.0095	0.0043		
9/29/2016		0.0032	0.00054 (J)			<0.0025	
11/16/2016	<0.0025	0.0032	0.00041 (J)	0.0094	0.004	<0.0025	
1/17/2017			0.00051 (J)	0.0099	0.0051		
1/18/2017		0.0032				<0.0025	
1/19/2017	0.0004 (J)						
3/2/2017	<0.0025	0.0042	0.00064 (J)	0.013	0.0064	<0.0025	
4/18/2017	<0.0025		0.00057 (J)	0.0086	0.005		
4/19/2017		0.0035					
4/25/2017						<0.0025	
7/13/2017						<0.0025	
3/29/2018	<0.0025			0.0088		<0.0025	
3/30/2018		0.0037	0.00068 (J)		0.015		
6/12/2018						<0.0025	
6/13/2018	<0.0025	0.0035	0.00048 (J)	0.0093	0.014		
10/10/2018	<0.0025	0.0034	0.00063 (J)	0.0125 (D)	0.018	<0.0025	
12/5/2018				0.012	0.02	<0.0025	
12/6/2018	<0.0025	0.0031	0.00058 (J)				<0.0025
1/29/2019	<0.0025	0.00293	<0.0025	0.0103	0.0159	<0.0025	
3/26/2019	<0.0025	0.003	<0.0025	0.009	0.02	<0.0025	
9/10/2019	0.00032 (J)	0.0027	0.00065	0.011	0.019	0.00016 (J)	
1/28/2020				0.008		<0.0025	
1/29/2020	0.00027 (J)	0.003	0.00067		0.025		
3/10/2020	<0.0025	0.0024 (J)	0.0005 (J)	0.0081	0.017	<0.0025	
9/16/2020		0.002 (J)				0.0015 (J)	
9/17/2020	0.0002 (J)		0.00053 (J)	0.0098	0.024		
1/26/2021	0.00031 (J)	0.0021 (J)	0.0013 (J)	0.009	0.021	<0.0025	
3/24/2021	<0.0025	0.0019 (J)	0.00053 (J)	0.0063	0.002 (J)	<0.0025	
8/24/2021		0.0018 (J)	0.00034 (J)				
8/25/2021	0.00018 (J)			0.0032	0.021	<0.0025	
2/22/2022	<0.0025					<0.0025	
2/23/2022		0.0016 (J)	0.0012 (J)	0.007	0.015		0.00055 (J)
8/2/2022						<0.0025	
8/3/2022	<0.0025		0.00051 (J)	0.0044			
8/4/2022		0.0013 (J)			0.0092		0.00025 (J)
2/7/2023			0.0025			<0.0025	
2/8/2023	<0.0025	0.0012 (J)		0.0044	0.0019 (J)		
8/1/2023	<0.0025		0.00054 (J)		0.0015 (J)		
8/2/2023		0.0011 (J)		0.0031		<0.0025	
2/6/2024	0.00024 (J)			0.0037			
2/7/2024		0.00099 (J)	0.00065 (J)		0.0005 (J)	<0.0025	
8/13/2024	<0.0025						
8/14/2024		0.0008 (J)	0.00038 (J)	0.0013 (J)	0.00056 (J)	<0.0025	
2/4/2025	<0.0025		0.00043 (J)	0.0029	0.00042 (J)	<0.0025	0.00056 (J)
2/5/2025		0.00085 (J)					
Mean	0.001756	0.00251	0.0007414	0.004033	0.01059	0.002381	0.000965
Std. Dev.	0.001031	0.0009869	0.0004484	0.001755	0.008337	0.0004744	0.001033

ND substitution: RL or RL/2 if <15% NDs.

Confidence Interval

Constituent: Cobalt (mg/L) Analysis Run 3/26/2025 3:34 PM View: Confidence Intervals

Plant McIntosh Client: Southern Company Data: McIntosh AP-1

	MGWC-1	MGWC-2	MGWC-3	MGWC-7	MGWC-8	MGWC-12	MGWC-20
Upper Lim.	0.0025	0.002971	0.00067	0.005728	0.01299	0.0025	0.0008567
Lower Lim.	0.00047	0.002049	0.00051	0.002339	0.005118	0.0015	0.0001608

Confidence Interval

Constituent: Combined Radium 226 + 228 (pCi/L) Analysis Run 3/26/2025 3:34 PM View: Confidence Intervals

Plant McIntosh Client: Southern Company Data: McIntosh AP-1

	MGWC-1	MGWC-2	MGWC-3	MGWC-7	MGWC-8	MGWC-12
5/5/2016				0.75	1.21	
5/6/2016	1.07	0.633	1.41			
6/21/2016	2.01	1.19	1.71	1.01	0.895	0.292
8/15/2016				1.3	1.64	
8/16/2016	1.12	0.516	1.75			0.232 (U)
9/28/2016	1.09			1.06	2.17	
9/29/2016		0.665	1.43			1.11
11/16/2016	1.58	0.694	1.9	0.855	1.49	0.798
1/17/2017			1.9	1.59	1.75	
1/18/2017		0.688				0.302 (U)
1/19/2017	1.64					
3/2/2017	1.08	0.484	1.37	1.4	1.03	0.437
4/18/2017	1.23		1.42	0.684	1.83	
4/19/2017		0.599				
4/25/2017						0.391
7/13/2017						0.47
3/29/2018	1.21			0.822		0.736
3/30/2018		0.677	1.43		2.15	
6/12/2018						0.438
6/13/2018	1.09	0.272 (U)	1.27	0.716	1.51	
10/10/2018	1.95	0.336	1.54	1.51	2.72	0.371
1/29/2019	1.11	0.719	1.34	1.7	1.93	0.639
3/26/2019	1	0.41 (U)	1.25	0.784	1.79	0.607
9/10/2019	1.26	0.548	1.6	0.958	1.78	0.939
1/28/2020				1.38		0.465
1/29/2020	1.39	0.0985 (U)	1.44		1.61	
3/10/2020	1.4	0.589	1.32	0.903	1.95	0.34 (U)
9/16/2020		1.11				1.09
9/17/2020	1.79		0.666 (U)	1.28	1.56	
12/8/2020	1.87		1.65			
1/26/2021	2.37	0.234 (U)	1.78	0.607	1.87	0.364 (U)
3/24/2021	1.81	0.625	1.58	1.2	0.636	0.434 (U)
8/24/2021		0.313 (U)	1.65			
8/25/2021	2.12			0.767	2.13	0.563
2/22/2022	1.85					0.888
2/23/2022		0.598	1.47	1.42	2.62	
8/2/2022						1.08
8/3/2022	2.2		2.56	1.11		
8/4/2022		0.632			1.24	
2/7/2023			2.14			0.849
2/8/2023	1.77	0.799		1.88	1.11	
8/1/2023	1.61		2.07		0.872	
8/2/2023		1.09		1.46		0.432 (U)
2/6/2024	1.99			1.52		
2/7/2024		1.1	1.8		0.929	0.706
8/13/2024	2.14					
8/14/2024		-0.123 (U)	1.14	1.08	0.642 (U)	0.231 (U)
2/4/2025	2.5		1.63	1.46	1.46	-0.0104 (U)
2/5/2025		0.328 (U)				
Mean	1.616	0.5861	1.579	1.156	1.575	0.5627
Std. Dev.	0.4471	0.3087	0.355	0.35	0.5494	0.2919
Upper Lim.	1.825	0.7333	1.745	1.323	1.837	0.702

Confidence Interval

Constituent: Combined Radium 226 + 228 (pCi/L) Analysis Run 3/26/2025 3:34 PM View: Confidence Intervals

Plant McIntosh Client: Southern Company Data: McIntosh AP-1

	MGWC-1	MGWC-2	MGWC-3	MGWC-7	MGWC-8	MGWC-12
Lower Lim.	1.407	0.4388	1.413	0.9888	1.313	0.4235

Confidence Interval

Constituent: Fluoride (mg/L) Analysis Run 3/26/2025 3:34 PM View: Confidence Intervals

Plant McIntosh Client: Southern Company Data: McIntosh AP-1

	MGWC-1	MGWC-2	MGWC-3	MGWC-7	MGWC-8	MGWC-12
5/5/2016				0.394	0.103 (J)	
5/6/2016	0.28 (J)	0.088 (J)	0.086 (J)			
6/21/2016	0.36	0.19 (J)	0.23 (J)	0.49	0.1 (J)	0.14 (J)
8/15/2016				0.44	0.11 (J)	
8/16/2016	0.27	0.087 (J)	<0.5			0.29
9/28/2016	0.26			0.4	0.1 (J)	
9/29/2016		<1	0.082 (J)			0.26
11/16/2016	0.24	<1	0.087 (J)	0.36	0.091 (J)	0.25
1/17/2017			0.086 (J)	0.2	<1	
1/18/2017		<1				0.26
1/19/2017	0.22					
3/2/2017	0.27	0.15 (J)	0.15 (J)	0.36	0.16 (J)	0.28
4/18/2017	0.2		<0.5	0.29	<1	
4/19/2017		<1				
4/25/2017						0.25
7/13/2017						0.21
10/10/2017	0.18 (J)	<1	<0.5	0.28	<1	0.22
3/29/2018	0.16 (J)			0.23		0.23
3/30/2018		<1	<0.5		0.088 (J)	
6/12/2018						0.23
6/13/2018	0.14 (J)	<1	<0.5	0.2	0.15 (J)	
10/10/2018	0.17 (J)	0.085 (J)	<0.5	0.23	0.11 (J)	0.25
3/26/2019	0.16 (J)	0.076 (J)	0.072 (J)	0.19 (J)	0.088 (J)	0.22
9/10/2019	0.098 (J)	0.07 (J)	0.073 (J)	0.15	0.083 (J)	0.2
3/10/2020	0.086 (J)	0.05 (J)	0.058 (J)	0.18	0.084 (J)	0.15
9/16/2020		0.076 (J)				0.26
9/17/2020	0.15		0.083 (J)	0.25	0.11	
1/26/2021	0.15	0.068 (J)	0.083 (J)	0.28	0.14	0.23
3/24/2021	0.27	0.11	0.092 (J)	0.35	0.11	0.27
8/24/2021		0.095 (J)	0.11			
8/25/2021	0.097 (J)			0.15	0.038 (J)	0.19
2/22/2022	0.047 (J)					0.093 (J)
2/23/2022		0.075 (J)	0.086 (J)	0.22	0.05 (J)	
8/2/2022						0.074 (J)
8/3/2022	0.12		0.079 (J)	0.2		
8/4/2022		0.072 (J)			0.087 (J)	
2/7/2023			0.076 (J)			0.25
2/8/2023	0.11	0.074 (J)		0.14	0.084 (J)	
8/1/2023	0.15		0.1		0.11	
8/2/2023		0.087 (J)		0.2		0.25
2/6/2024	0.12			0.17		
2/7/2024		0.081 (J)	0.089 (J)		0.063 (J)	0.29
8/13/2024	<0.5					
8/14/2024		<1	<0.5	<1	<1	0.12
2/4/2025	<0.5		<0.5	<1	<1	0.043 (J)
2/5/2025		<1				
Mean	0.1849	0.4052	0.2201	0.2828	0.2715	0.2119
Std. Dev.	0.07624	0.4422	0.193	0.1149	0.3635	0.06791
Upper Lim.	0.2221	1	0.23	0.3389	0.15	0.2473
Lower Lim.	0.1478	0.076	0.083	0.2268	0.087	0.1937

ND substitution: RL or RL/2 if <15% NDs.

Confidence Interval

Constituent: Lead (mg/L) Analysis Run 3/26/2025 3:34 PM View: Confidence Intervals

Plant McIntosh Client: Southern Company Data: McIntosh AP-1

	MGWC-1	MGWC-2	MGWC-3	MGWC-7	MGWC-8	MGWC-12
5/5/2016				<0.001	<0.001	
5/6/2016	<0.001	<0.001	<0.001			
6/21/2016	<0.001	<0.001	<0.001	0.0003 (J)	<0.001	0.0001 (J)
8/15/2016				<0.001	<0.001	
8/16/2016	<0.001	<0.001	<0.001			<0.001
9/28/2016	<0.001			<0.001	<0.001	
9/29/2016		<0.001	<0.001			<0.001
11/16/2016	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
1/17/2017			<0.001	<0.001	<0.001	
1/18/2017		<0.001				<0.001
1/19/2017	<0.001					
3/2/2017	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
4/18/2017	<0.001		<0.001	<0.001	<0.001	
4/19/2017		<0.001				
4/25/2017						<0.001
7/13/2017						<0.001
3/29/2018	<0.001			<0.001		<0.001
3/30/2018		<0.001	<0.001		<0.001	
1/29/2019	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
1/28/2020				<0.001		<0.001
1/29/2020	<0.001	<0.001	<0.001		<0.001	
3/10/2020	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
9/16/2020		<0.001				<0.001
9/17/2020	<0.001		<0.001	<0.001	<0.001	
1/26/2021	0.00058 (J)	0.00014 (J)	0.00017 (J)	<0.001	0.00019 (J)	<0.001
3/24/2021	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
8/24/2021		<0.001	<0.001			
8/25/2021	<0.001			0.00019 (J)	0.00022 (J)	<0.001
2/22/2022	<0.001					<0.001
2/23/2022		<0.001	<0.001	<0.001	<0.001	
8/2/2022						<0.001
8/3/2022	<0.001		<0.001	0.00021 (J)		
8/4/2022		<0.001			<0.001	
2/7/2023			<0.001			<0.001
2/8/2023	<0.001	<0.001		<0.001	<0.001	
8/1/2023	<0.001		<0.001		<0.001	
8/2/2023		<0.001		<0.001		<0.001
2/6/2024	<0.001			<0.001		
2/7/2024		0.00027 (J)	<0.001		<0.001	<0.001
8/13/2024	<0.001					
8/14/2024		<0.001	<0.001	<0.001	<0.001	<0.001
2/4/2025	<0.001		0.00034 (J)	<0.001	<0.001	<0.001
2/5/2025		<0.001				
Mean	0.0009817	0.0009309	0.0009352	0.0009	0.0009309	0.0009609
Std. Dev.	8.758E-05	0.0002299	0.0002162	0.0002646	0.0002291	0.0001877
Upper Lim.	0.001	0.001	0.001	0.001	0.001	0.001
Lower Lim.	0.00058	0.00027	0.00034	0.0003	0.00022	0.0001

ND substitution: RL or RL/2 if <15% NDs.

Confidence Interval

Constituent: Lithium (mg/L) Analysis Run 3/26/2025 3:34 PM View: Confidence Intervals

Plant McIntosh Client: Southern Company Data: McIntosh AP-1

	MGWC-1	MGWC-2	MGWC-3	MGWC-7	MGWC-8	MGWC-12	MGWC-20
5/5/2016				0.0586	0.0252 (J)		
5/6/2016	0.0128 (J)	<0.05	0.0113 (J)				
6/21/2016	0.0102 (J)	0.0047 (J)	0.0103 (J)	0.122	0.0228 (J)	0.0112 (J)	
8/15/2016				0.12	0.026		
8/16/2016	0.012	0.0043 (J)	0.01			0.014	
9/28/2016	0.012			0.12	0.026		
9/29/2016		0.0048 (J)	0.01			0.017	
11/16/2016	0.013	0.0058	0.014	0.13	0.031	0.016	
1/17/2017			0.014	0.14	0.032		
1/18/2017		0.0051				0.015	
1/19/2017	0.011						
3/2/2017	0.013	0.0061	0.013	0.13	0.031	0.015	
4/18/2017	0.0097		0.01	0.11	0.023		
4/19/2017		0.0042 (J)					
4/25/2017						0.013	
7/13/2017						0.014	
3/29/2018	0.017			0.17		0.032	
3/30/2018		0.008	0.017		0.058		
6/12/2018						0.019	
6/13/2018	0.0094	0.0054	0.011	0.12	0.035		
10/10/2018	0.011	0.0055	0.013	0.13	0.046	0.027	
12/5/2018				0.14	0.043	0.026	
12/6/2018	0.01	0.0066	0.015				0.0053
1/29/2019	0.0109	0.00537	0.0106	0.112	0.0361	0.0172	
3/26/2019	0.01	0.0051	0.012	0.12	0.043	0.02	
9/10/2019	0.012	0.0074	0.015	0.11	0.042	0.023	
1/28/2020				0.13		0.022	
1/29/2020	0.0096	0.0059	0.012		0.037		
3/10/2020	<0.025	0.0068	0.014	0.11	0.028	0.018	
9/16/2020		0.0055				0.025	
9/17/2020	0.0086		0.012	0.11	0.039		
1/26/2021	0.011	0.0066	0.014	0.12	0.032	0.021	
3/24/2021	0.013	0.0066	0.013	0.13	0.011	0.018	
8/24/2021		0.0062	0.012				
8/25/2021	0.0096			0.12	0.037	0.017	
2/22/2022	0.01					0.022	
2/23/2022		0.0066	0.013	0.13	0.028		0.0066
8/2/2022						0.026	
8/3/2022	0.01		0.013	0.13			
8/4/2022		0.0063			0.021		0.011
2/7/2023			0.014			0.024	
2/8/2023	0.01	0.0065		0.14	0.012		
8/1/2023	0.0084		0.011		0.012		
8/2/2023		0.0031 (J)		0.13		0.019	
2/6/2024	0.0084			0.12			
2/7/2024		0.0051	0.0081		0.0076	0.03	
8/13/2024	0.011						
8/14/2024		0.0065	0.012	0.15	0.007	0.022	
12/9/2024							0.0029 (J)
2/4/2025	0.016		0.017	0.16	0.012	0.031	0.01
2/5/2025		0.0087					
Mean	0.01115	0.006563	0.01255	0.1255	0.0287	0.02051	0.00716

ND substitution: RL or RL/2 if <15% NDs.

Confidence Interval

Constituent: Lithium (mg/L) Analysis Run 3/26/2025 3:34 PM View: Confidence Intervals
Plant McIntosh Client: Southern Company Data: McIntosh AP-1

	MGWC-1	MGWC-2	MGWC-3	MGWC-7	MGWC-8	MGWC-12	MGWC-20
Std. Dev.	0.002055	0.003798	0.002101	0.01963	0.01267	0.005584	0.003344
Upper Lim.	0.01211	0.0066	0.01353	0.1353	0.03462	0.02312	0.01276
Lower Lim.	0.01019	0.0051	0.01156	0.118	0.02278	0.0179	0.001556

Confidence Interval

Constituent: Mercury (mg/L) Analysis Run 3/26/2025 3:34 PM View: Confidence Intervals
Plant McIntosh Client: Southern Company Data: McIntosh AP-1

	MGWC-2	MGWC-3	MGWC-7	MGWC-8	MGWC-12
5/5/2016			<0.0002	<0.0002	
5/6/2016	<0.0002	<0.0002			
6/21/2016	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002
8/15/2016			<0.0002	0.00015 (J)	
8/16/2016	7.8E-05 (J)	<0.0002			<0.0002
9/28/2016			<0.0002	<0.0002	
9/29/2016	<0.0002	<0.0002			<0.0002
11/16/2016	0.0001 (J)	7E-05 (J)	8E-05 (J)	0.00021	8.6E-05 (J)
1/17/2017		<0.0002	<0.0002	7.6E-05 (J)	
1/18/2017	<0.0002				<0.0002
3/2/2017	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002
4/18/2017		<0.0002	<0.0002	0.00018 (J)	
4/19/2017	<0.0002				
4/25/2017					<0.0002
7/13/2017					<0.0002
3/29/2018			<0.0002		7.4E-05 (J)
3/30/2018	<0.0002	<0.0002		0.00013 (J)	
6/12/2018					<0.0002
6/13/2018	<0.0002	<0.0002	<0.0002	0.00074	
10/10/2018	<0.0002	<0.0002	<0.0002	0.00013 (J)	<0.0002
1/29/2019	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002
1/28/2020			<0.0002		<0.0002
1/29/2020	<0.0002	<0.0002		0.00012 (J)	
3/10/2020	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002
9/16/2020	<0.0002				<0.0002
9/17/2020		<0.0002	<0.0002	0.00014 (J)	
1/26/2021	<0.0002	<0.0002	<0.0002	0.0025	<0.0002
3/24/2021	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002
8/24/2021	<0.0002	<0.0002			
8/25/2021			<0.0002	0.0041	<0.0002
10/26/2021				<0.0002	
2/22/2022					<0.0002
2/23/2022	<0.0002	<0.0002	<0.0002	0.00028	
8/2/2022					<0.0002
8/3/2022		<0.0002	<0.0002		
8/4/2022	<0.0002			0.00068	
2/7/2023		<0.0002			<0.0002
2/8/2023	<0.0002		<0.0002	0.00026	
8/1/2023		<0.0002		0.00014 (J)	
8/2/2023	<0.0002		<0.0002		<0.0002
2/6/2024			<0.0002		
2/7/2024	<0.0002	<0.0002		0.00052	<0.0002
8/14/2024	<0.0002	<0.0002	<0.0002	0.00051	<0.0002
2/4/2025		<0.0002	<0.0002	0.00084	<0.0002
2/5/2025	<0.0002				
Mean	0.0001911	0.0001948	0.0001952	0.0005118	0.0001904
Std. Dev.	3.09E-05	2.6E-05	2.4E-05	0.0008753	3.327E-05
Upper Lim.	0.0002	0.0002	0.0002	0.00051	0.0002
Lower Lim.	0.0001	7E-05	8E-05	0.00015	8.6E-05

ND substitution: RL or RL/2 if <15% NDs.

Confidence Interval

Constituent: Molybdenum (mg/L) Analysis Run 3/26/2025 3:34 PM View: Confidence Intervals

Plant McIntosh Client: Southern Company Data: McIntosh AP-1

	MGWC-1	MGWC-7	MGWC-8	MGWC-12
5/5/2016		0.00351 (J)	<0.015	
5/6/2016	0.0021 (J)			
6/21/2016	0.002 (J)	<0.015	<0.015	0.002 (J)
8/15/2016		<0.015	<0.015	
8/16/2016	0.0019 (J)			0.0012 (J)
9/28/2016	0.0018 (J)	<0.015	<0.015	
9/29/2016				0.0014 (J)
11/16/2016	<0.075	<0.015	<0.015	<0.015
1/17/2017		<0.015	<0.015	
1/18/2017				<0.015
1/19/2017	0.0011 (J)			
3/2/2017	0.0012 (J)	<0.015	<0.015	<0.015
4/18/2017	0.0013 (J)	<0.015	0.0037 (J)	
4/25/2017				<0.015
7/13/2017				<0.015
3/29/2018	0.0017 (J)	<0.015		<0.015
3/30/2018			<0.015	
6/12/2018				<0.015
6/13/2018	0.00087 (J)	<0.015	<0.015	
10/10/2018	<0.075	<0.015	<0.015	<0.015
1/29/2019	<0.075	<0.015	<0.015	<0.015
1/28/2020		<0.015		<0.015
1/29/2020	0.0015 (J)		<0.015	
3/10/2020	<0.075	<0.015	<0.015	<0.015
9/16/2020				0.0024 (J)
9/17/2020	0.0012 (J)	<0.015	<0.015	
1/26/2021	0.0016 (J)	<0.015	<0.015	<0.015
3/24/2021	0.0029 (J)	<0.015	<0.015	<0.015
8/25/2021	0.00088 (J)	<0.015	<0.015	<0.015
2/22/2022	0.0014 (J)			0.00064 (J)
2/23/2022		<0.015	<0.015	
8/2/2022				0.00093 (J)
8/3/2022	0.0011 (J)	<0.015		
8/4/2022			<0.015	
2/7/2023				<0.015
2/8/2023	0.0012 (J)	<0.015	<0.015	
8/1/2023	0.0012 (J)		<0.015	
8/2/2023		<0.015		<0.015
2/6/2024	0.00099 (J)	<0.015		
2/7/2024			<0.015	<0.015
8/13/2024	0.0011 (J)			
8/14/2024		<0.015	<0.015	<0.015
2/4/2025	0.0011 (J)	<0.015	<0.015	<0.015
Mean	0.01321	0.01454	0.01455	0.01174
Std. Dev.	0.02753	0.002298	0.00226	0.005923
Upper Lim.	0.002	0.015	0.015	0.015
Lower Lim.	0.0011	0.00351	0.0037	0.0024

ND substitution: RL or RL/2 if <15% NDs.

Confidence Interval

Constituent: Selenium (mg/L) Analysis Run 3/26/2025 3:34 PM View: Confidence Intervals

Plant McIntosh Client: Southern Company Data: McIntosh AP-1

	MGWC-1	MGWC-2	MGWC-3	MGWC-7	MGWC-8	MGWC-12
5/5/2016				<0.005	<0.005	
5/6/2016	<0.005	<0.005	<0.005			
6/21/2016	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
8/15/2016				<0.005	0.00033 (J)	
8/16/2016	<0.005	<0.005	<0.005			<0.005
9/28/2016	<0.005			<0.005	0.00038 (J)	
9/29/2016		<0.005	<0.005			<0.005
11/16/2016	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
1/17/2017			<0.005	<0.005	<0.005	
1/18/2017		<0.005				<0.005
1/19/2017	<0.005					
3/2/2017	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
4/18/2017	<0.005		<0.005	<0.005	0.0024	
4/19/2017		<0.005				
4/25/2017						<0.005
7/13/2017						<0.005
3/29/2018	0.0005 (J)			0.00026 (J)		0.00027 (J)
3/30/2018		0.00045 (J)	0.00044 (J)		0.00027 (J)	
6/12/2018						<0.005
6/13/2018	<0.005	<0.005	<0.005	<0.005	<0.005	
10/10/2018	0.00036 (J)	<0.005	<0.005	<0.005	0.00039 (J)	<0.005
1/29/2019	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
1/28/2020				<0.005		<0.005
1/29/2020	<0.005	<0.005	<0.005		<0.005	
1/26/2021	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
2/22/2022	<0.005					<0.005
2/23/2022		<0.005	<0.005	<0.005	<0.005	
8/2/2022						<0.005
8/3/2022	<0.005		<0.005	<0.005		
8/4/2022		<0.005			<0.005	
2/7/2023			<0.005			<0.005
2/8/2023	<0.005	<0.005		<0.005	<0.005	
8/1/2023	<0.005		<0.005		<0.005	
8/2/2023		<0.005		<0.005		<0.005
2/6/2024	<0.005			<0.005		
2/7/2024		<0.005	<0.005		<0.005	<0.005
8/13/2024	<0.005					
8/14/2024		<0.005	<0.005	<0.005	<0.005	<0.005
2/4/2025	<0.005		<0.005	<0.005	<0.005	<0.005
2/5/2025		<0.005				
Mean	0.004565	0.004783	0.004783	0.004774	0.003989	0.004775
Std. Dev.	0.001375	0.0009929	0.0009951	0.001034	0.001898	0.001032
Upper Lim.	0.005	0.005	0.005	0.005	0.005	0.005
Lower Lim.	0.0005	0.00045	0.00044	0.00026	0.0024	0.00027

ND substitution: RL or RL/2 if <15% NDs.

Confidence Interval

Constituent: Thallium (mg/L) Analysis Run 3/26/2025 3:34 PM View: Confidence Intervals

Plant McIntosh Client: Southern Company Data: McIntosh AP-1

	MGWC-1	MGWC-2	MGWC-3	MGWC-7	MGWC-8	MGWC-12
5/5/2016				<0.001	<0.001	
5/6/2016	<0.001	<0.001	<0.001			
6/21/2016	9E-05 (J)	<0.001	<0.001	<0.001	0.0001 (J)	<0.001
8/15/2016				<0.001	0.00016 (J)	
8/16/2016	<0.001	<0.001	<0.001			<0.001
9/28/2016	<0.001			<0.001	0.00014 (J)	
9/29/2016		<0.001	<0.001			<0.001
11/16/2016	<0.001	<0.001	<0.001	<0.001	9E-05 (J)	<0.001
1/17/2017			<0.001	<0.001	0.00016 (J)	
1/18/2017		<0.001				<0.001
1/19/2017	<0.001					
3/2/2017	<0.001	<0.001	<0.001	<0.001	0.00018 (J)	<0.001
4/18/2017	9.5E-05 (J)		<0.001	<0.001	0.00019 (J)	
4/19/2017		<0.001				
4/25/2017						<0.001
7/13/2017						<0.001
3/29/2018	0.00014 (J)			<0.001		<0.001
3/30/2018		<0.001	<0.001		0.00027 (J)	
6/12/2018						<0.001
6/13/2018	<0.001	<0.001	<0.001	<0.001	0.00027 (J)	
10/10/2018	<0.001	<0.001	<0.001	<0.001	0.00025 (J)	<0.001
1/29/2019	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
1/28/2020				<0.001		<0.001
1/29/2020	0.00032 (J)	0.00021 (J)	0.00037 (J)		0.00042 (J)	
3/10/2020	<0.001	<0.001	0.00016 (J)	<0.001	0.00025 (J)	0.00015 (J)
9/16/2020		<0.001				0.00027 (J)
9/17/2020	0.00016 (J)		<0.001	<0.001	0.00031 (J)	
1/26/2021	0.00016 (J)	<0.001	<0.001	0.00016 (J)	0.0003 (J)	<0.001
3/24/2021	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
8/24/2021		<0.001	<0.001			
8/25/2021	<0.001			<0.001	0.0004 (J)	<0.001
2/22/2022	<0.001					<0.001
2/23/2022		<0.001	<0.001	<0.001	<0.001	
8/2/2022						<0.001
8/3/2022	<0.001		<0.001	<0.001		
8/4/2022		<0.001			<0.001	
2/7/2023			<0.001			<0.001
2/8/2023	<0.001	<0.001		<0.001	<0.001	
8/1/2023	<0.001		<0.001		<0.001	
8/2/2023		<0.001		<0.001		<0.001
2/6/2024	<0.001			<0.001		
2/7/2024		<0.001	<0.001		<0.001	<0.001
8/13/2024	<0.001					
8/14/2024		<0.001	<0.001	<0.001	<0.001	<0.001
2/4/2025	<0.001		<0.001	<0.001	<0.001	<0.001
2/5/2025		<0.001				
Mean	0.0007986	0.0009684	0.0009412	0.0009664	0.0005396	0.0009368
Std. Dev.	0.0003678	0.000158	0.0002058	0.000168	0.0003911	0.0002194
Upper Lim.	0.001	0.001	0.001	0.001	0.001	0.001
Lower Lim.	0.00032	0.00021	0.00037	0.00016	0.00019	0.00027

ND substitution: RL or RL/2 if <15% NDs.

FIGURE J.

Appendix IV Trend Tests - Significant Results

Plant McIntosh Client: Southern Company Data: McIntosh AP-1 Printed 3/26/2025, 3:37 PM

Constituent	Well	Slope	Calc.	Critical	Sig.	N	%NDs	Normality	Alpha	Method
Lithium (mg/L)	**MGWA-6A (bg)**	**-0.0001217**	**-59**	**-45**	**Yes**	**16**	**62.5**	**n/a**	**0.05**	**NP**
Lithium (mg/L)	**MGWA-11 (bg)**	**0.001191**	**113**	**101**	**Yes**	**28**	**0**	**n/a**	**0.05**	**NP**

Appendix IV Trend Tests - All Results

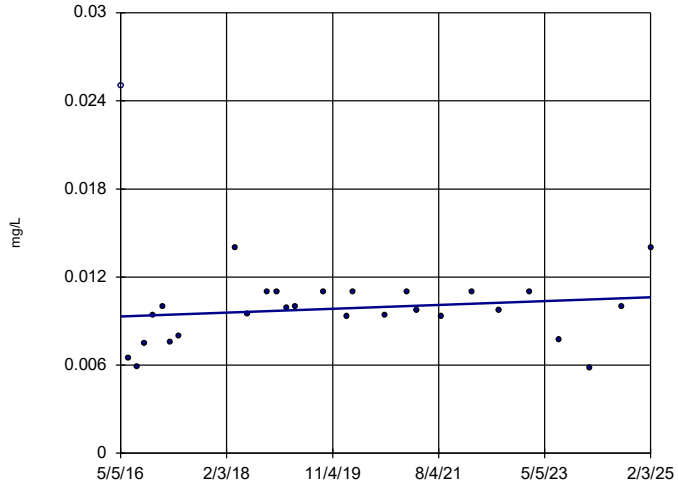
Plant McIntosh Client: Southern Company Data: McIntosh AP-1 Printed 3/26/2025, 3:37 PM

Constituent	Well	Slope	Calc.	Critical	Sig.	N	%NDs	Normality	Alpha	Method
Lithium (mg/L)	MGWA-5 (bg)	0.0001505	52	101	No	28	3.571	n/a	0.05	NP
Lithium (mg/L)	MGWA-6 (bg)	0	61	101	No	28	82.14	n/a	0.05	NP
Lithium (mg/L)	**MGWA-6A (bg)**	**-0.0001217**	**-59**	**-45**	**Yes**	**16**	**62.5**	**n/a**	**0.05**	**NP**
Lithium (mg/L)	MGWA-10 (bg)	0.00005176	30	101	No	28	3.571	n/a	0.05	NP
Lithium (mg/L)	**MGWA-11 (bg)**	**0.001191**	**113**	**101**	**Yes**	**28**	**0**	**n/a**	**0.05**	**NP**
Lithium (mg/L)	MGWC-7	0.00164	78	101	No	28	0	n/a	0.05	NP

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Hollow symbols indicate censored values.

Sen's Slope Estimator

MGWA-5 (bg)



n = 28

Slope = 0.0001505 units per year.

Mann-Kendall statistic = 52
critical = 101

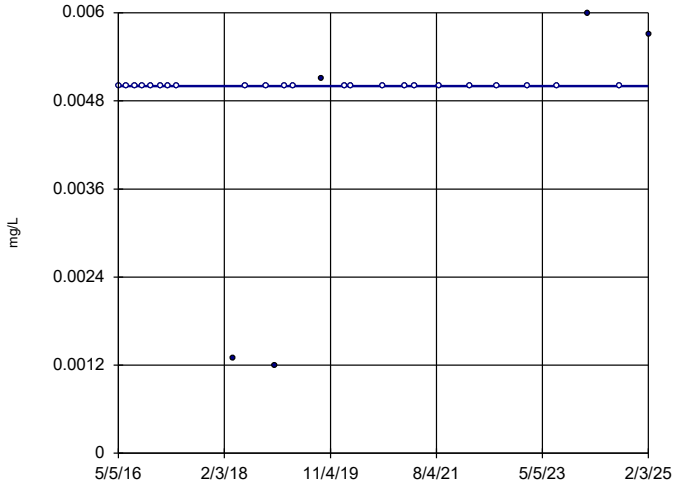
Trend not significant at 95% confidence level (α = 0.025 per tail).

Constituent: Lithium Analysis Run 3/26/2025 3:36 PM View: Appendix IV Trend Tests
Plant McIntosh Client: Southern Company Data: McIntosh AP-1

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Hollow symbols indicate censored values.

Sen's Slope Estimator

MGWA-6 (bg)



n = 28

Slope = 0 units per year.

Mann-Kendall statistic = 61
critical = 101

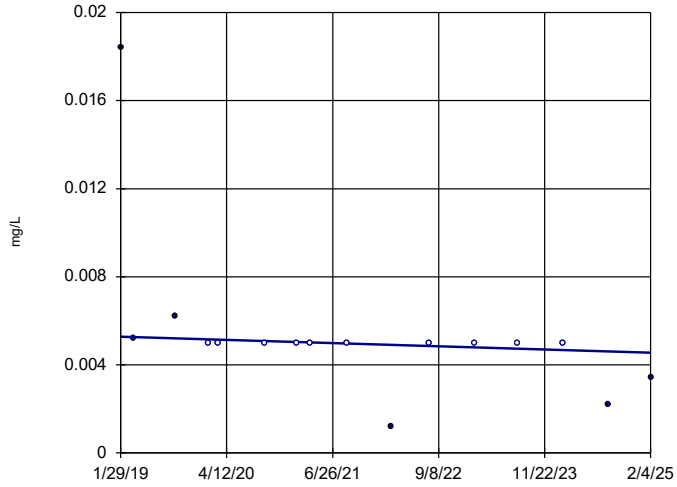
Trend not significant at 95% confidence level (α = 0.025 per tail).

Constituent: Lithium Analysis Run 3/26/2025 3:36 PM View: Appendix IV Trend Tests
Plant McIntosh Client: Southern Company Data: McIntosh AP-1

Sanitas™ v.10.0.24 Software licensed to Groundwater Stats Consulting. UG
Hollow symbols indicate censored values.

Sen's Slope Estimator

MGWA-6A (bg)



n = 16

Slope = -0.0001217 units per year.

Mann-Kendall statistic = -59
critical = -45

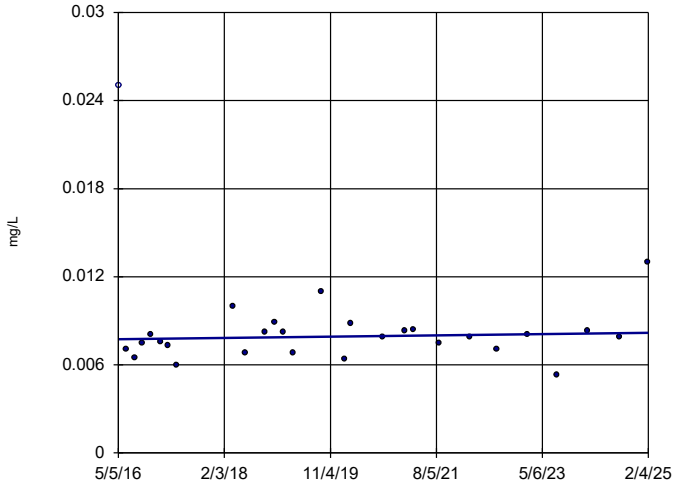
Decreasing trend significant at 95% confidence level (α = 0.025 per tail).

Constituent: Lithium Analysis Run 3/26/2025 3:36 PM View: Appendix IV Trend Tests
Plant McIntosh Client: Southern Company Data: McIntosh AP-1

Sanitas™ v.10.0.24 Software licensed to Groundwater Stats Consulting. UG
Hollow symbols indicate censored values.

Sen's Slope Estimator

MGWA-10 (bg)



n = 28

Slope = 0.00005176 units per year.

Mann-Kendall statistic = 30
critical = 101

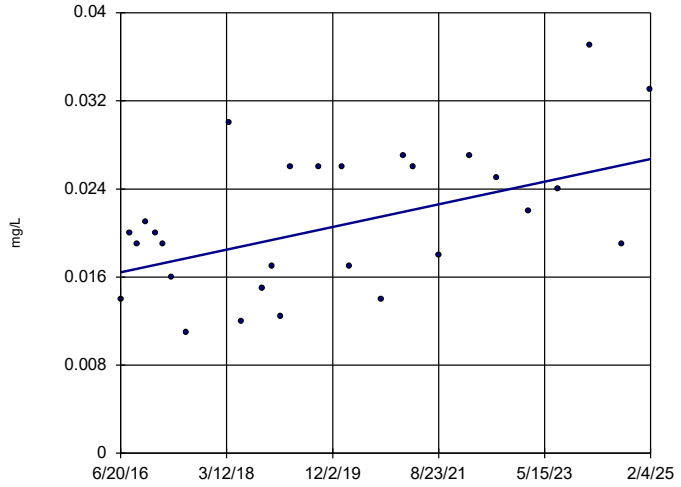
Trend not significant at 95% confidence level (α = 0.025 per tail).

Constituent: Lithium Analysis Run 3/26/2025 3:36 PM View: Appendix IV Trend Tests
Plant McIntosh Client: Southern Company Data: McIntosh AP-1

Sanitas™ v.10.0.24 Software licensed to Groundwater Stats Consulting. UG

Sen's Slope Estimator

MGWA-11 (bg)



n = 28

Slope = 0.001191 units per year.

Mann-Kendall statistic = 113 critical = 101

Increasing trend significant at 95% confidence level (α = 0.025 per tail).

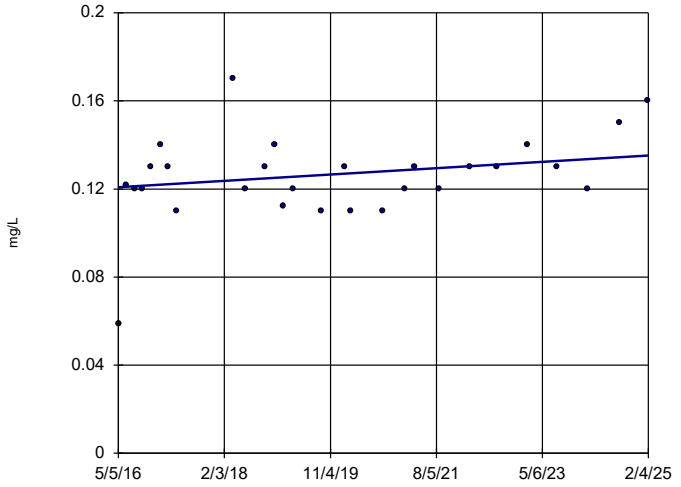
Constituent: Lithium Analysis Run 3/26/2025 3:36 PM View: Appendix IV Trend Tests

Plant McIntosh Client: Southern Company Data: McIntosh AP-1

Sanitas™ v.10.0.24 Software licensed to Groundwater Stats Consulting. UG

Sen's Slope Estimator

MGWC-7



n = 28

Slope = 0.00164 units per year.

Mann-Kendall statistic = 78 critical = 101

Trend not significant at 95% confidence level (α = 0.025 per tail).

Constituent: Lithium Analysis Run 3/26/2025 3:36 PM View: Appendix IV Trend Tests

Plant McIntosh Client: Southern Company Data: McIntosh AP-1

APPENDIX C

Annual Potable Well Survey

981 Old Augusta Road, Rincon GA
981 Old Augusta Road Cen
Rincon, GA 31326

Inquiry Number: 7909798.1s
February 26, 2025

The EDR GeoCheck® Report

6 Armstrong Road, 4th floor
Shelton, CT 06484
Toll Free: 800.352.0050
www.edrnet.com

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Physical Setting Source Map ---- **A-7**

Physical Setting Source Map Findings ---- **A-8**

Physical Setting Source Records Searched ---- **PSGR-1**

Thank you for your business.
Please contact EDR at 1-800-352-0050
with any questions or comments.

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GEOCHECK® - PHYSICAL SETTING SOURCE REPORT

TARGET PROPERTY ADDRESS

981 OLD AUGUSTA ROAD, RINCON GA
981 OLD AUGUSTA ROAD CEN
RINCON, GA 31326

TARGET PROPERTY COORDINATES

Latitude (North):	32.350831 - 32° 21' 2.99''
Longitude (West):	81.171639 - 81° 10' 17.90''
Universal Tranverse Mercator:	Zone 17
UTM X (Meters):	483849.5
UTM Y (Meters):	3579147.8
Elevation:	55 ft. above sea level

USGS TOPOGRAPHIC MAP

Target Property Map:	32081-C2 RINCON, GA SC
Version Date:	1979

EDR's GeoCheck Physical Setting Source Addendum is provided to assist the environmental professional in forming an opinion about the impact of potential contaminant migration.

Assessment of the impact of contaminant migration generally has two principle investigative components:

1. Groundwater flow direction, and
2. Groundwater flow velocity.

Groundwater flow direction may be impacted by surface topography, hydrology, hydrogeology, characteristics of the soil, and nearby wells. Groundwater flow velocity is generally impacted by the nature of the geologic strata.

GEOCHECK® - PHYSICAL SETTING SOURCE SUMMARY

GROUNDWATER FLOW DIRECTION INFORMATION

Groundwater flow direction for a particular site is best determined by a qualified environmental professional using site-specific well data. If such data is not reasonably ascertainable, it may be necessary to rely on other sources of information, such as surface topographic information, hydrologic information, hydrogeologic data collected on nearby properties, and regional groundwater flow information (from deep aquifers).

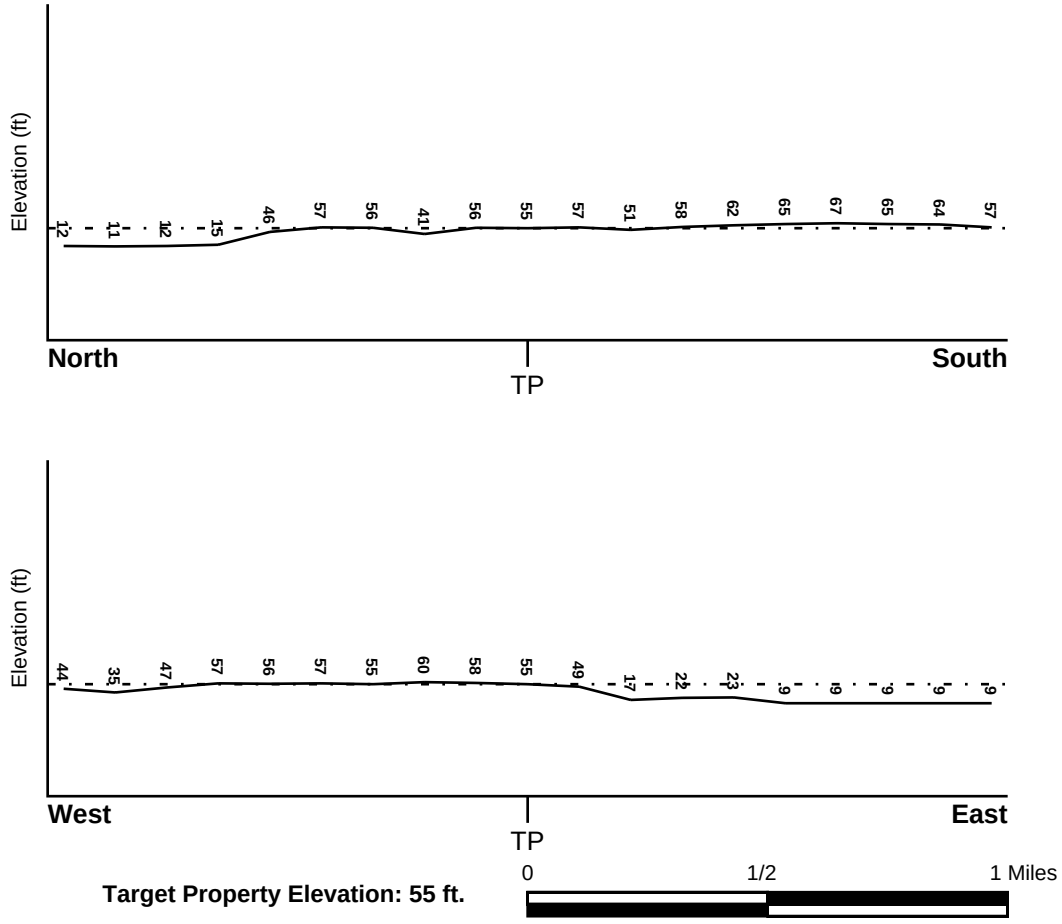
TOPOGRAPHIC INFORMATION

Surface topography may be indicative of the direction of surficial groundwater flow. This information can be used to assist the environmental professional in forming an opinion about the impact of nearby contaminated properties or, should contamination exist on the target property, what downgradient sites might be impacted.

TARGET PROPERTY TOPOGRAPHY

General Topographic Gradient: General ENE

SURROUNDING TOPOGRAPHY: ELEVATION PROFILES



Source: Topography has been determined from the USGS 7.5' Digital Elevation Model and should be evaluated on a relative (not an absolute) basis. Relative elevation information between sites of close proximity should be field verified.

GEOCHECK® - PHYSICAL SETTING SOURCE SUMMARY

HYDROLOGIC INFORMATION

Surface water can act as a hydrologic barrier to groundwater flow. Such hydrologic information can be used to assist the environmental professional in forming an opinion about the impact of nearby contaminated properties or, should contamination exist on the target property, what downgradient sites might be impacted.

Refer to the Physical Setting Source Map following this summary for hydrologic information (major waterways and bodies of water).

FEMA FLOOD ZONE

Flood Plain Panel at Target Property	FEMA Source Type
13103C0300D	FEMA FIRM Flood data

Additional Panels in search area:	FEMA Source Type
13103C0280E	FEMA FIRM Flood data

NATIONAL WETLAND INVENTORY

NWI Quad at Target Property	NWI Electronic Data Coverage
RINCON	YES - refer to the Overview Map and Detail Map

HYDROGEOLOGIC INFORMATION

Hydrogeologic information obtained by installation of wells on a specific site can often be an indicator of groundwater flow direction in the immediate area. Such hydrogeologic information can be used to assist the environmental professional in forming an opinion about the impact of nearby contaminated properties or, should contamination exist on the target property, what downgradient sites might be impacted.

AQUIFLOW®

Search Radius: 1.000 Mile.

EDR has developed the AQUIFLOW Information System to provide data on the general direction of groundwater flow at specific points. EDR has reviewed reports submitted by environmental professionals to regulatory authorities at select sites and has extracted the date of the report, groundwater flow direction as determined hydrogeologically, and the depth to water table.

MAP ID	LOCATION FROM TP	GENERAL DIRECTION GROUNDWATER FLOW
Not Reported		

GEOCHECK® - PHYSICAL SETTING SOURCE SUMMARY

GROUNDWATER FLOW VELOCITY INFORMATION

Groundwater flow velocity information for a particular site is best determined by a qualified environmental professional using site specific geologic and soil strata data. If such data are not reasonably ascertainable, it may be necessary to rely on other sources of information, including geologic age identification, rock stratigraphic unit and soil characteristics data collected on nearby properties and regional soil information. In general, contaminant plumes move more quickly through sandy-gravelly types of soils than silty-clayey types of soils.

GEOLOGIC INFORMATION IN GENERAL AREA OF TARGET PROPERTY

Geologic information can be used by the environmental professional in forming an opinion about the relative speed at which contaminant migration may be occurring.

ROCK STRATIGRAPHIC UNIT

Era:	Cenozoic
System:	Quaternary
Series:	Pleistocene
Code:	Qp *(decoded above as Era, System & Series)*

GEOLOGIC AGE IDENTIFICATION

Category: Stratifed Sequence

Geologic Age and Rock Stratigraphic Unit Source: P.G. Schruben, R.E. Arndt and W.J. Bawiec, Geology of the Conterminous U.S. at 1:2,500,000 Scale - a digital representation of the 1974 P.B. King and H.M. Beikman Map, USGS Digital Data Series DDS - 11 (1994).

DOMINANT SOIL COMPOSITION IN GENERAL AREA OF TARGET PROPERTY

The U.S. Department of Agriculture's (USDA) Soil Conservation Service (SCS) leads the National Cooperative Soil Survey (NCSS) and is responsible for collecting, storing, maintaining and distributing soil survey information for privately owned lands in the United States. A soil map in a soil survey is a representation of soil patterns in a landscape. Soil maps for STATSGO are compiled by generalizing more detailed (SSURGO) soil survey maps. The following information is based on Soil Conservation Service STATSGO data.

Soil Component Name:	MANDARIN
Soil Surface Texture:	fine sand
Hydrologic Group:	Class C - Slow infiltration rates. Soils with layers impeding downward movement of water, or soils with moderately fine or fine textures.
Soil Drainage Class:	Somewhat poorly. Soils commonly have a layer with low hydraulic conductivity, wet state high in profile, etc. Depth to water table is 1 to 3 feet.

Hydric Status: Soil does not meet the requirements for a hydric soil.

Corrosion Potential - Uncoated Steel:	MODERATE
Depth to Bedrock Min:	> 60 inches
Depth to Bedrock Max:	> 60 inches

GEOCHECK® - PHYSICAL SETTING SOURCE SUMMARY

Soil Layer Information							
	Boundary			Classification			
Layer	Upper	Lower	Soil Texture Class	AASHTO Group	Unified Soil	Permeability Rate (in/hr)	Soil Reaction (pH)
1	0 inches	26 inches	fine sand	Granular materials (35 pct. or less passing No. 200), Fine Sand.	COARSE-GRAINED SOILS, Sands, Clean Sands, Poorly graded sand.	Max: 20.00 Min: 6.00	Max: 6.00 Min: 3.60
2	26 inches	40 inches	fine sand	Granular materials (35 pct. or less passing No. 200), Fine Sand.	COARSE-GRAINED SOILS, Sands, Clean Sands, Poorly graded sand. COARSE-GRAINED SOILS, Sands, Sands with fines, Silty Sand.	Max: 2.00 Min: 0.60	Max: 6.00 Min: 3.60
3	40 inches	73 inches	fine sand	Granular materials (35 pct. or less passing No. 200), Fine Sand.	COARSE-GRAINED SOILS, Sands, Clean Sands, Poorly graded sand.	Max: 20.00 Min: 6.00	Max: 7.30 Min: 3.60
4	73 inches	80 inches	fine sand	Granular materials (35 pct. or less passing No. 200), Fine Sand.	COARSE-GRAINED SOILS, Sands, Clean Sands, Poorly graded sand.	Max: 2.00 Min: 0.60	Max: 7.30 Min: 3.60

OTHER SOIL TYPES IN AREA

Based on Soil Conservation Service STATSGO data, the following additional subordinant soil types may appear within the general area of target property.

Soil Surface Textures: sand
loamy sand
muck
clay loam

Surficial Soil Types: sand
loamy sand
muck
clay loam

Shallow Soil Types: sand
fine sandy loam

Deeper Soil Types: sand
sandy clay loam
sandy clay

GEOCHECK® - PHYSICAL SETTING SOURCE SUMMARY

LOCAL / REGIONAL WATER AGENCY RECORDS

EDR Local/Regional Water Agency records provide water well information to assist the environmental professional in assessing sources that may impact ground water flow direction, and in forming an opinion about the impact of contaminant migration on nearby drinking water wells.

WELL SEARCH DISTANCE INFORMATION

DATABASE	SEARCH DISTANCE (miles)
Federal USGS	2.000
Federal FRDS PWS	2.000
State Database	2.000

FEDERAL USGS WELL INFORMATION

MAP ID	WELL ID	LOCATION FROM TP
A2	USGS40000260046	1/4 - 1/2 Mile NE
A3	USGS40000260045	1/2 - 1 Mile NE
7	USGS40000260019	1 - 2 Miles WSW

FEDERAL FRDS PUBLIC WATER SUPPLY SYSTEM INFORMATION

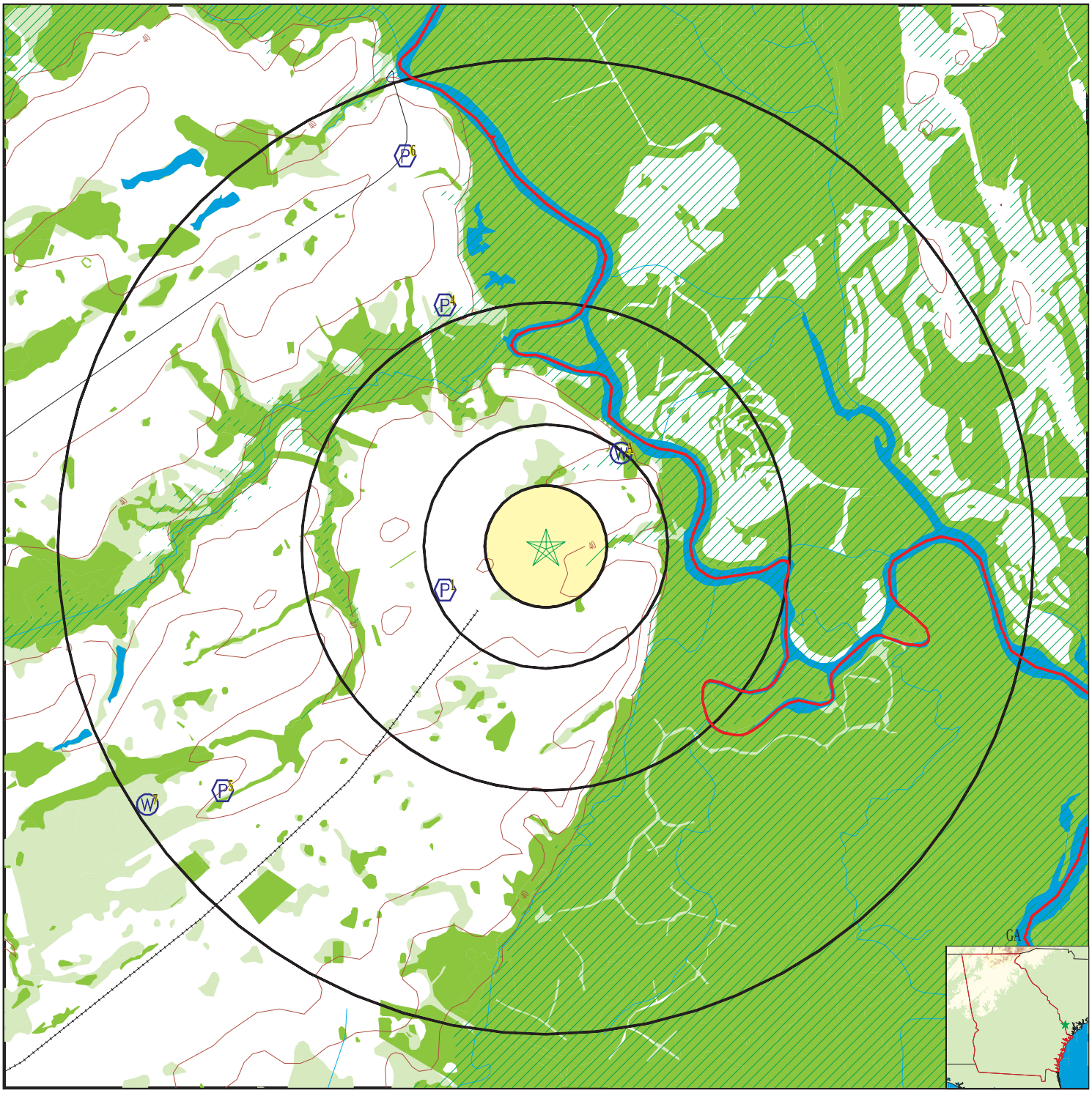
MAP ID	WELL ID	LOCATION FROM TP
1	GA1030047	1/4 - 1/2 Mile WSW
4	GA1030047	1 - 2 Miles NNW
5	GA1030076	1 - 2 Miles SW
6	GA1030067	1 - 2 Miles NNW

Note: PWS System location is not always the same as well location.

STATE DATABASE WELL INFORMATION

MAP ID	WELL ID	LOCATION FROM TP
No Wells Found		

PHYSICAL SETTING SOURCE MAP - 7909798.1s



County Boundary
Major Roads
Contour Lines
Earthquake epicenter, Richter 5 or greater
Water Wells
Public Water Supply Wells
Cluster of Multiple Icons

0 1/2 1 2 Miles

Groundwater Flow Direction
Indeterminate Groundwater Flow at Location
Groundwater Flow Varies at Location
100-year flood zone
500-year flood zone
National Wetland Inventory
Wildlife Areas

N

SITE NAME:	981 Old Augusta Road, Rincon GA	CLIENT:	ARCADIS U.S., Inc.
ADDRESS:	981 Old Augusta Road Cen Rincon GA 31326	CONTACT:	Clair Lueke
LAT/LONG:	32.350831 / 81.171639	INQUIRY #:	7909798.1s
		DATE:	February 26, 2025 3:15 pm

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GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Map ID
Direction
Distance
Elevation | Database | EDR ID Number

1
WSW
1/4 - 1/2 Mile
Higher | **FRDS PWS** | **GA1030047**

Epa region:	04	State:	GA
Pwsid:	GA1030047	Pwsname:	GEORGIA POWER-PLT. MCINTOSH
Cityserved:	Not Reported	Stateserved:	GA
Zipserved:	Not Reported	Fipscounty:	13103
Status:	Active	Retpopsrvd:	90
Pwssvcconn:	4	Psource longname:	Groundwater
Pwstype:	NTNCWS	Owner:	Private
Contact:	BLALOCK, TANYA D.	Contactorgname:	BLALOCK, TANYA D.
Contactphone:	404-506-7026	Contactaddress1:	241 RALPH MCGILL BLVD.
Contactaddress2:	BIN 10221	Contactcity:	ATLANTA
Contactstate:	GA	Contactzip:	30308-3374
Pwsactivitycode:	A		
Pwsid:	GA1030047	Facid:	2775
Facname:	WELL #2 PLANT	Factype:	Treatment_plant
Facactivitycode:	I	Trtobjective:	disinfection
Trtprocess:	hypochlorination, post	Factypecode:	TP
Pwsid:	GA1030047	Facid:	858
Facname:	WELL #1 AND #2 PLANT	Factype:	Treatment_plant
Facactivitycode:	A	Trtobjective:	disinfection
Trtprocess:	hypochlorination, post	Factypecode:	TP
PWS ID:	GA1030047	PWS type:	Not Reported
PWS name:	Not Reported	PWS address:	Not Reported
PWS city:	Not Reported	PWS state:	Not Reported
PWS zip:	Not Reported	PWS name:	GEORGIA POWER-PLT. MCINTOSH
PWS type code:	NTNC	Retail population served:	90
Contact:	DESHAZO, NANCY G.	Contact address:	241 RALPH MCGILL BLVD.
Contact address:	BIN 10221	Contact city:	ATLANTA
Contact state:	GA	Contact zip:	30308-3374
Contact telephone:	404-506-1309		
PWS ID:	GA1030047	Activity status:	Active
Date system activated:	Not Reported	Date system deactivated:	Not Reported
Retail population:	00000035	System name:	SAVANNAH ELEC & PWR-PLT. MCINT
System address:	PLANT MCINTOSH	System address:	POB 968
System city:	SAVANNAH	System state:	GA
System zip:	314020968		
Population served:	Under 101 Persons	Treatment:	Treated
Latitude:	320459	Longitude:	0810600
Latitude:	322154	Longitude:	0811044
Latitude:	322053	Longitude:	0811044
Violation id:	108	Orig code:	S
State:	GA	Violation Year:	2008
Contamination code:	3100	Contamination Name:	Coliform (TCR)
Violation code:	23	Violation name:	Monitoring, Routine Major (TCR)
Rule code:	110	Rule name:	TCR
Violation measur:	Not Reported	Unit of measure:	Not Reported
State mcl:	Not Reported	Cmp bdt:	04/01/2008

Cmp edt:	06/30/2008		
Violation ID:	108	Orig Code:	S
Enforcemnt FY:	2008	Enforcement Action:	08/19/2008
Enforcement Detail:	St Public Notif received	Enforcement Category:	Informal
Violation ID:	108	Orig Code:	S
Enforcemnt FY:	2008	Enforcement Action:	07/18/2008
Enforcement Detail:	St Public Notif requested	Enforcement Category:	Informal
Violation ID:	108	Orig Code:	S
Enforcemnt FY:	2008	Enforcement Action:	07/18/2008
Enforcement Detail:	St Violation/Reminder Notice		
Enforcement Category:	Informal		
PWS name:	GEORGIA POWER-PLT. MCINTOSH		
Population served:	90	PWS type code:	NTNC
Violation ID:	108	Contaminant:	Coliform (Tcr)
Violation type:	Monitoring, Routine Major (TCR)		
Compliance start date:	4/1/2008 0:00:00	Compliance end date:	6/30/2008 0:00:00
Enforcement date:	7/18/2008 0:00:00	Enforcement action:	State Violation/Reminder Notice
Violation measurement:	Not Reported		
PWS name:	GEORGIA POWER-PLT. MCINTOSH		
Population served:	90	PWS type code:	NTNC
Violation ID:	108	Contaminant:	Coliform (Tcr)
Violation type:	Monitoring, Routine Major (TCR)		
Compliance start date:	4/1/2008 0:00:00	Compliance end date:	6/30/2008 0:00:00
Enforcement date:	7/18/2008 0:00:00	Enforcement action:	State Public Notif Requested
Violation measurement:	Not Reported		
PWS name:	GEORGIA POWER-PLT. MCINTOSH		
Population served:	90	PWS type code:	NTNC
Violation ID:	108	Contaminant:	Coliform (Tcr)
Violation type:	Monitoring, Routine Major (TCR)		
Compliance start date:	4/1/2008 0:00:00	Compliance end date:	6/30/2008 0:00:00
Enforcement date:	8/19/2008 0:00:00	Enforcement action:	State Public Notif Received
Violation measurement:	Not Reported		

A2
NE
1/4 - 1/2 Mile
Lower

FED USGS **USGS40000260046**

Organization ID:	USGS-GA	Organization Name:	USGS Georgia Water Science Center
Monitor Location:	36S029	Type:	Well
Description:	Not Reported	HUC:	03060109
Drainage Area:	Not Reported	Drainage Area Units:	Not Reported
Contrib Drainage Area:	Not Reported	Contrib Drainage Area Unts:	Not Reported
Aquifer:	Not Reported	Formation Type:	Not Reported
Aquifer Type:	Not Reported	Construction Date:	Not Reported
Well Depth:	Not Reported	Well Depth Units:	Not Reported
Well Hole Depth:	Not Reported	Well Hole Depth Units:	Not Reported

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Map ID
Direction
Distance
Elevation | Database | EDR ID Number

A3
NE
1/2 - 1 Mile
Lower | **FED USGS** | **USGS40000260045**

Organization ID:	USGS-GA	Organization Name:	USGS Georgia Water Science Center
Monitor Location:	36S030	Type:	Well
Description:	Not Reported	HUC:	03060109
Drainage Area:	Not Reported	Drainage Area Units:	Not Reported
Contrib Drainage Area:	Not Reported	Contrib Drainage Area Unts:	Not Reported
Aquifer:	Not Reported	Formation Type:	Not Reported
Aquifer Type:	Not Reported	Construction Date:	Not Reported
Well Depth:	Not Reported	Well Depth Units:	Not Reported
Well Hole Depth:	Not Reported	Well Hole Depth Units:	Not Reported

---

4
NNW
1 - 2 Miles
Lower | **FRDS PWS** | **GA1030047**

Epa region:	04	State:	GA
Pwsid:	GA1030047	Pwsname:	GEORGIA POWER-PLT. MCINTOSH
Cityserved:	Not Reported	Stateserved:	GA
Zipserved:	Not Reported	Fipscounty:	13103
Status:	Active	Retpopsrvd:	90
Pwssvcconn:	4	Psource longname:	Groundwater
Pwstype:	NTNCWS	Owner:	Private
Contact:	BLALOCK, TANYA D.	Contactorgname:	BLALOCK, TANYA D.
Contactphone:	404-506-7026	Contactaddress1:	241 RALPH MCGILL BLVD.
Contactaddress2:	BIN 10221	Contactcity:	ATLANTA
Contactstate:	GA	Contactzip:	30308-3374
Pwsactivitycode:	A		

Pwsid:	GA1030047	Facid:	2775
Facname:	WELL #2 PLANT	Factype:	Treatment_plant
Facactivitycode:	I	Trtobjective:	disinfection
Trtprocess:	hypochlorination, post	Factypecode:	TP

Pwsid:	GA1030047	Facid:	858
Facname:	WELL #1 AND #2 PLANT	Factype:	Treatment_plant
Facactivitycode:	A	Trtobjective:	disinfection
Trtprocess:	hypochlorination, post	Factypecode:	TP

PWS ID:	GA1030047	PWS type:	Not Reported
PWS name:	Not Reported	PWS address:	Not Reported
PWS city:	Not Reported	PWS state:	Not Reported
PWS zip:	Not Reported	PWS name:	GEORGIA POWER-PLT. MCINTOSH
PWS type code:	NTNC	Retail population served:	90
Contact:	DESHAZO, NANCY G.	Contact address:	241 RALPH MCGILL BLVD.
Contact address:	BIN 10221	Contact city:	ATLANTA
Contact state:	GA	Contact zip:	30308-3374
Contact telephone:	404-506-1309		

PWS ID:	GA1030047	Activity status:	Active
Date system activated:	Not Reported	Date system deactivated:	Not Reported
Retail population:	00000035	System name:	SAVANNAH ELEC & PWR-PLT. MCINT
System address:	PLANT MCINTOSH	System address:	POB 968
System city:	SAVANNAH	System state:	GA

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

System zip:	314020968		
Population served:	Under 101 Persons	Treatment:	Treated
Latitude:	320459	Longitude:	0810600
Latitude:	322154	Longitude:	0811044
Latitude:	322053	Longitude:	0811044
Violation id:	108	Orig code:	S
State:	GA	Violation Year:	2008
Contamination code:	3100	Contamination Name:	Coliform (TCR)
Violation code:	23	Violation name:	Monitoring, Routine Major (TCR)
Rule code:	110	Rule name:	TCR
Violation measur:	Not Reported	Unit of measure:	Not Reported
State mcl:	Not Reported	Cmp bdt:	04/01/2008
Cmp edt:	06/30/2008		
Violation ID:	108	Orig Code:	S
Enforcemnt FY:	2008	Enforcement Action:	08/19/2008
Enforcement Detail:	St Public Notif received	Enforcement Category:	Informal
Violation ID:	108	Orig Code:	S
Enforcemnt FY:	2008	Enforcement Action:	07/18/2008
Enforcement Detail:	St Public Notif requested	Enforcement Category:	Informal
Violation ID:	108	Orig Code:	S
Enforcemnt FY:	2008	Enforcement Action:	07/18/2008
Enforcement Detail:	St Violation/Reminder Notice		
Enforcement Category:	Informal		
PWS name:	GEORGIA POWER-PLT. MCINTOSH		
Population served:	90	PWS type code:	NTNC
Violation ID:	108	Contaminant:	Coliform (Tcr)
Violation type:	Monitoring, Routine Major (TCR)		
Compliance start date:	4/1/2008 0:00:00	Compliance end date:	6/30/2008 0:00:00
Enforcement date:	7/18/2008 0:00:00	Enforcement action:	State Violation/Reminder Notice
Violation measurement:	Not Reported		
PWS name:	GEORGIA POWER-PLT. MCINTOSH		
Population served:	90	PWS type code:	NTNC
Violation ID:	108	Contaminant:	Coliform (Tcr)
Violation type:	Monitoring, Routine Major (TCR)		
Compliance start date:	4/1/2008 0:00:00	Compliance end date:	6/30/2008 0:00:00
Enforcement date:	7/18/2008 0:00:00	Enforcement action:	State Public Notif Requested
Violation measurement:	Not Reported		
PWS name:	GEORGIA POWER-PLT. MCINTOSH		
Population served:	90	PWS type code:	NTNC
Violation ID:	108	Contaminant:	Coliform (Tcr)
Violation type:	Monitoring, Routine Major (TCR)		
Compliance start date:	4/1/2008 0:00:00	Compliance end date:	6/30/2008 0:00:00
Enforcement date:	8/19/2008 0:00:00	Enforcement action:	State Public Notif Received
Violation measurement:	Not Reported		

Map ID
Direction
Distance
Elevation | Database | EDR ID Number

5
SW
1 - 2 Miles
Higher

FRDS PWS **GA1030076**

Epa region:	04	State:	GA
Pwsid:	GA1030076		
Pwsname:	GEORGIA-PACIFIC CONSUMER PRODUCTS, LP		
Cityserved:	Not Reported	Stateserved:	GA
Zipserved:	Not Reported	Fipscounty:	13103
Status:	Active	Retpopsrvd:	1400
Pwssvcconn:	28	Psource longname:	Groundwater
Pwstype:	NTNCWS	Owner:	Private
Contact:	WOLFF, KELLY	Contactorgname:	WOLFF, KELLY
Contactphone:	912-826-9183	Contactaddress1:	P.O.BOX 828
Contactaddress2:	Not Reported	Contactcity:	RINCON
Contactstate:	GA	Contactzip:	31326-0828
Pwsactivitycode:	A		
Pwsid:	GA1030076	Facid:	861
Facname:	WELL TREATMENT PLANT	Factype:	Treatment_plant
Facactivitycode:	A	Trtobjective:	disinfection
Trtprocess:	hypochlorination, post	Factypecode:	TP
PWS ID:	GA1030076	PWS type:	Not Reported
PWS name:	Not Reported	PWS address:	Not Reported
PWS city:	Not Reported	PWS state:	Not Reported
PWS zip:	Not Reported	PWS ID:	GA1030076
Activity status:	Active	Date system activated:	Not Reported
Date system deactivated:	Not Reported	Retail population:	00001100
System name:	FORT HOWARD PAPER COMPANY	System address:	FORT HOWARD CORPORATION
System address:	POB 828	System city:	RINCON
System state:	GA	System zip:	313260828
Population served:	1,001 - 2,500 Persons	Treatment:	Treated
Latitude:	322010	Longitude:	0811140
Latitude:	322010	Longitude:	0811140
Latitude:	322010	Longitude:	0811140
Latitude:	322010	Longitude:	0811140

6
NNW
1 - 2 Miles
Higher

FRDS PWS **GA1030067**

Epa region:	04	State:	GA
Pwsid:	GA1030067	Pwsname:	NEW EBENEZER RETREAT CENTER
Cityserved:	Not Reported	Stateserved:	GA
Zipserved:	Not Reported	Fipscounty:	13103
Status:	Active	Retpopsrvd:	125
Pwssvcconn:	15	Psource longname:	Groundwater
Pwstype:	TNCWS	Owner:	Private
Contact:	ODOM, LEON	Contactorgname:	ODOM, LEON
Contactphone:	912-754-9242	Contactaddress1:	2887 EBENEZER RD.
Contactaddress2:	Not Reported	Contactcity:	RINCON

Contactstate:	GA	Contactzip:	31326
Pwsactivitycode:	A		
PWS ID:	GA1030067	PWS type:	Not Reported
PWS name:	Not Reported	PWS address:	Not Reported
PWS city:	Not Reported	PWS state:	Not Reported
PWS zip:	Not Reported	PWS name:	NEW EBENEZER RETREAT CENTER
PWS type code:	NC	Retail population served:	125
Contact:	ODOM, LEON	Contact address:	2887 EBENEZER RD.
Contact address:	RINCON	Contact city:	GA
Contact state:	31	Contact zip:	912-754-92
Contact telephone:	Not Reported		
PWS ID:	GA1030067	Activity status:	Active
Date system activated:	Not Reported	Date system deactivated:	Not Reported
Retail population:	00000125	System name:	NEW EBENEZER RETREAT CENTER
System address:	NEW EBENEZER RETREAT CTR.	System address:	ROUTE 1, BOX 478
System city:	RINCON	System state:	GA
System zip:	313260478		
Population served:	101 - 500 Persons	Treatment:	Untreated
Latitude:	322226	Longitude:	0811054
Violation id:	10101	Orig code:	S
State:	GA	Violation Year:	2001
Contamination code:	3100	Contamination Name:	Coliform (TCR)
Violation code:	23	Violation name:	Monitoring, Routine Major (TCR)
Rule code:	110	Rule name:	TCR
Violation measur:	0	Unit of measure:	Not Reported
State mcl:	0	Cmp bdt:	04/01/2001
Cmp edt:	06/30/2001		
Violation id:	10402	Orig code:	S
State:	GA	Violation Year:	2002
Contamination code:	3100	Contamination Name:	Coliform (TCR)
Violation code:	22	Violation name:	MCL, Monthly (TCR)
Rule code:	110	Rule name:	TCR
Violation measur:	0	Unit of measure:	Not Reported
State mcl:	0	Cmp bdt:	09/01/2002
Cmp edt:	09/30/2002		
Violation id:	10503	Orig code:	S
State:	GA	Violation Year:	2002
Contamination code:	3100	Contamination Name:	Coliform (TCR)
Violation code:	25	Violation name:	Monitoring, Repeat Major (TCR)
Rule code:	110	Rule name:	TCR
Violation measur:	Not Reported	Unit of measure:	Not Reported
State mcl:	Not Reported	Cmp bdt:	09/01/2002
Cmp edt:	09/30/2002		
Violation id:	10603	Orig code:	S
State:	GA	Violation Year:	2002
Contamination code:	3100	Contamination Name:	Coliform (TCR)
Violation code:	25	Violation name:	Monitoring, Repeat Major (TCR)
Rule code:	110	Rule name:	TCR
Violation measur:	Not Reported	Unit of measure:	Not Reported
State mcl:	Not Reported	Cmp bdt:	07/01/2002
Cmp edt:	09/30/2002		
Violation id:	10703	Orig code:	S
State:	GA	Violation Year:	2002

Contamination code:	3100	Contamination Name:	Coliform (TCR)
Violation code:	22	Violation name:	MCL, Monthly (TCR)
Rule code:	110	Rule name:	TCR
Violation measur:	Not Reported	Unit of measure:	Not Reported
State mcl:	Not Reported	Cmp bdt:	07/01/2002
Cmp edt:	09/30/2002		

Violation id:	10803	Orig code:	S
State:	GA	Violation Year:	2002
Contamination code:	3100	Contamination Name:	Coliform (TCR)
Violation code:	25	Violation name:	Monitoring, Repeat Major (TCR)
Rule code:	110	Rule name:	TCR
Violation measur:	Not Reported	Unit of measure:	Not Reported
State mcl:	Not Reported	Cmp bdt:	10/01/2002
Cmp edt:	10/31/2002		

Violation id:	10903	Orig code:	S
State:	GA	Violation Year:	2002
Contamination code:	3100	Contamination Name:	Coliform (TCR)
Violation code:	22	Violation name:	MCL, Monthly (TCR)
Rule code:	110	Rule name:	TCR
Violation measur:	Not Reported	Unit of measure:	Not Reported
State mcl:	Not Reported	Cmp bdt:	10/01/2002
Cmp edt:	10/31/2002		

Violation id:	11110	Orig code:	S
State:	GA	Violation Year:	2009
Contamination code:	3100	Contamination Name:	Coliform (TCR)
Violation code:	22	Violation name:	MCL, Monthly (TCR)
Rule code:	110	Rule name:	TCR
Violation measur:	Not Reported	Unit of measure:	Not Reported
State mcl:	Not Reported	Cmp bdt:	12/01/2009
Cmp edt:	12/31/2009		

Violation id:	11210	Orig code:	S
State:	GA	Violation Year:	2009
Contamination code:	3100	Contamination Name:	Coliform (TCR)
Violation code:	25	Violation name:	Monitoring, Repeat Major (TCR)
Rule code:	110	Rule name:	TCR
Violation measur:	Not Reported	Unit of measure:	Not Reported
State mcl:	Not Reported	Cmp bdt:	10/01/2009
Cmp edt:	12/31/2009		

Violation id:	11410	Orig code:	S
State:	GA	Violation Year:	2010
Contamination code:	3100	Contamination Name:	Coliform (TCR)
Violation code:	22	Violation name:	MCL, Monthly (TCR)
Rule code:	110	Rule name:	TCR
Violation measur:	Not Reported	Unit of measure:	Not Reported
State mcl:	Not Reported	Cmp bdt:	09/01/2010
Cmp edt:	09/30/2010		

Violation id:	11712	Orig code:	S
State:	GA	Violation Year:	2011
Contamination code:	1040	Contamination Name:	Nitrate
Violation code:	03	Violation name:	Monitoring, Regular
Rule code:	331	Rule name:	Nitrates
Violation measur:	Not Reported	Unit of measure:	Not Reported
State mcl:	Not Reported	Cmp bdt:	01/01/2011
Cmp edt:	12/31/2011		

PWS currently has or had major violation(s) or enforcement:Yes

Violation ID:	9200001	Violation source ID:	Not Reported
PWS telephone:	Not Reported	Contaminant:	Coliform (Tcr)
Violation type:	Monitoring, Routine Major (TCR)		
Violation start date:	010192	Violation end date:	033192
Violation period (months):	003	Violation awareness date:	Not Reported
Major violator:	Yes	Maximum contaminant level:	Not Reported
Number of required samples:	Not Reported	Number of samples taken:	Not Reported
Analysis method:	Not Reported	Analysis result:	Not Reported

Violation ID:	10101	Orig Code:	S
Enforcemnt FY:	2001	Enforcement Action:	07/18/2001
Enforcement Detail:	St Violation/Reminder Notice		
Enforcement Category:	Informal		

Violation ID:	10101	Orig Code:	S
Enforcemnt FY:	2001	Enforcement Action:	07/18/2001
Enforcement Detail:	St Public Notif requested	Enforcement Category:	Informal

Violation ID:	10101	Orig Code:	S
Enforcemnt FY:	2001	Enforcement Action:	08/06/2001
Enforcement Detail:	St Public Notif received	Enforcement Category:	Informal

Violation ID:	10402	Orig Code:	S
Enforcemnt FY:	2003	Enforcement Action:	10/28/2002
Enforcement Detail:	St Public Notif received	Enforcement Category:	Informal

Violation ID:	10402	Orig Code:	S
Enforcemnt FY:	2002	Enforcement Action:	09/17/2002
Enforcement Detail:	St Violation/Reminder Notice		
Enforcement Category:	Informal		

Violation ID:	10402	Orig Code:	S
Enforcemnt FY:	2003	Enforcement Action:	11/25/2002
Enforcement Detail:	St Formal NOV issued	Enforcement Category:	Informal

Violation ID:	10402	Orig Code:	S
Enforcemnt FY:	2002	Enforcement Action:	09/17/2002
Enforcement Detail:	St Public Notif requested	Enforcement Category:	Informal

Violation ID:	10503	Orig Code:	S
Enforcemnt FY:	2003	Enforcement Action:	10/21/2002
Enforcement Detail:	St Public Notif requested	Enforcement Category:	Informal

Violation ID:	10503	Orig Code:	S
Enforcemnt FY:	2003	Enforcement Action:	10/21/2002
Enforcement Detail:	St Violation/Reminder Notice		
Enforcement Category:	Informal		

Violation ID:	10503	Orig Code:	S
Enforcemnt FY:	2003	Enforcement Action:	10/21/2002
Enforcement Detail:	St Public Notif requested	Enforcement Category:	Informal

Violation ID:	10503	Orig Code:	S
Enforcemnt FY:	2003	Enforcement Action:	11/07/2002
Enforcement Detail:	St Public Notif received	Enforcement Category:	Informal

Violation ID:	10503	Orig Code:	S
Enforcemnt FY:	2003	Enforcement Action:	11/25/2002
Enforcement Detail:	St Formal NOV issued	Enforcement Category:	Informal

Violation ID:	10503	Orig Code:	S
Enforcemnt FY:	2003	Enforcement Action:	10/21/2002

Enforcement Detail: St Violation/Reminder Notice
Enforcement Category: Informal

Violation ID: 10603 Orig Code: S
Enforcemnt FY: 2003 Enforcement Action: 11/25/2002
Enforcement Detail: St Formal NOV issued Enforcement Category: Informal

Violation ID: 10603 Orig Code: S
Enforcemnt FY: 2003 Enforcement Action: 10/21/2002
Enforcement Detail: St Public Notif requested Enforcement Category: Informal

Violation ID: 10603 Orig Code: S
Enforcemnt FY: 2003 Enforcement Action: 11/14/2002
Enforcement Detail: St Public Notif received Enforcement Category: Informal

Violation ID: 10603 Orig Code: S
Enforcemnt FY: 2003 Enforcement Action: 10/21/2002
Enforcement Detail: St Violation/Reminder Notice
Enforcement Category: Informal

Violation ID: 10603 Orig Code: S
Enforcemnt FY: 2003 Enforcement Action: 10/21/2002
Enforcement Detail: St Violation/Reminder Notice
Enforcement Category: Informal

Violation ID: 10603 Orig Code: S
Enforcemnt FY: 2003 Enforcement Action: 10/21/2002
Enforcement Detail: St Public Notif requested Enforcement Category: Informal

Violation ID: 10703 Orig Code: S
Enforcemnt FY: 2003 Enforcement Action: 11/14/2002
Enforcement Detail: St Public Notif received Enforcement Category: Informal

Violation ID: 10703 Orig Code: S
Enforcemnt FY: 2003 Enforcement Action: 10/21/2002
Enforcement Detail: St Violation/Reminder Notice
Enforcement Category: Informal

Violation ID: 10703 Orig Code: S
Enforcemnt FY: 2003 Enforcement Action: 11/25/2002
Enforcement Detail: St Formal NOV issued Enforcement Category: Informal

Violation ID: 10703 Orig Code: S
Enforcemnt FY: 2003 Enforcement Action: 11/14/2002
Enforcement Detail: St Public Notif received Enforcement Category: Informal

Violation ID: 10703 Orig Code: S
Enforcemnt FY: 2003 Enforcement Action: 10/21/2002
Enforcement Detail: St Public Notif requested Enforcement Category: Informal

Violation ID: 10803 Orig Code: S
Enforcemnt FY: 2003 Enforcement Action: 12/23/2002
Enforcement Detail: St Public Notif received Enforcement Category: Informal

Violation ID: 10803 Orig Code: S
Enforcemnt FY: 2003 Enforcement Action: 11/25/2002
Enforcement Detail: St Formal NOV issued Enforcement Category: Informal

Violation ID: 10803 Orig Code: S
Enforcemnt FY: 2003 Enforcement Action: 12/05/2002
Enforcement Detail: St Violation/Reminder Notice
Enforcement Category: Informal

Violation ID:	10803	Orig Code:	S
Enforcemnt FY:	2003	Enforcement Action:	12/23/2002
Enforcement Detail:	St Public Notif received	Enforcement Category:	Informal
Violation ID:	10803	Orig Code:	S
Enforcemnt FY:	2003	Enforcement Action:	12/05/2002
Enforcement Detail:	St Public Notif requested	Enforcement Category:	Informal
Violation ID:	10903	Orig Code:	S
Enforcemnt FY:	2003	Enforcement Action:	12/05/2002
Enforcement Detail:	St Public Notif requested	Enforcement Category:	Informal
Violation ID:	10903	Orig Code:	S
Enforcemnt FY:	2003	Enforcement Action:	12/05/2002
Enforcement Detail:	St Violation/Reminder Notice		
Enforcement Category:	Informal		
Violation ID:	10903	Orig Code:	S
Enforcemnt FY:	2003	Enforcement Action:	12/05/2002
Enforcement Detail:	St Public Notif requested	Enforcement Category:	Informal
Violation ID:	10903	Orig Code:	S
Enforcemnt FY:	2003	Enforcement Action:	12/23/2002
Enforcement Detail:	St Public Notif received	Enforcement Category:	Informal
Violation ID:	10903	Orig Code:	S
Enforcemnt FY:	2003	Enforcement Action:	12/05/2002
Enforcement Detail:	St Violation/Reminder Notice		
Enforcement Category:	Informal		
Violation ID:	10903	Orig Code:	S
Enforcemnt FY:	2003	Enforcement Action:	11/25/2002
Enforcement Detail:	St Formal NOV issued	Enforcement Category:	Informal
Violation ID:	11110	Orig Code:	S
Enforcemnt FY:	2010	Enforcement Action:	12/07/2009
Enforcement Detail:	St Public Notif requested	Enforcement Category:	Informal
Violation ID:	11110	Orig Code:	S
Enforcemnt FY:	2011	Enforcement Action:	01/20/2011
Enforcement Detail:	St AO (w/penalty) issued	Enforcement Category:	Formal
Violation ID:	11110	Orig Code:	S
Enforcemnt FY:	2010	Enforcement Action:	12/07/2009
Enforcement Detail:	St Violation/Reminder Notice		
Enforcement Category:	Informal		
Violation ID:	11110	Orig Code:	S
Enforcemnt FY:	2010	Enforcement Action:	02/01/2010
Enforcement Detail:	St Public Notif received	Enforcement Category:	Informal
Violation ID:	11110	Orig Code:	S
Enforcemnt FY:	2010	Enforcement Action:	02/10/2010
Enforcement Detail:	St Formal NOV issued	Enforcement Category:	Informal
Violation ID:	11210	Orig Code:	S
Enforcemnt FY:	2010	Enforcement Action:	02/10/2010
Enforcement Detail:	St Formal NOV issued	Enforcement Category:	Informal
Violation ID:	11210	Orig Code:	S
Enforcemnt FY:	2011	Enforcement Action:	01/20/2011
Enforcement Detail:	St AO (w/penalty) issued	Enforcement Category:	Formal

Violation ID: 11210 Orig Code: S
Enforcemnt FY: 2010 Enforcement Action: 01/28/2010
Enforcement Detail: St Violation/Reminder Notice
Enforcement Category: Informal

Violation ID: 11210 Orig Code: S
Enforcemnt FY: 2010 Enforcement Action: 01/28/2010
Enforcement Detail: St Public Notif requested Enforcement Category: Informal

Violation ID: 11210 Orig Code: S
Enforcemnt FY: 2010 Enforcement Action: 03/05/2010
Enforcement Detail: St Public Notif received Enforcement Category: Informal

Violation ID: 11410 Orig Code: S
Enforcemnt FY: 2011 Enforcement Action: 01/20/2011
Enforcement Detail: St AO (w/penalty) issued Enforcement Category: Formal

Violation ID: 11410 Orig Code: S
Enforcemnt FY: 2010 Enforcement Action: 09/17/2010
Enforcement Detail: St Violation/Reminder Notice
Enforcement Category: Informal

Violation ID: 11410 Orig Code: S
Enforcemnt FY: 2010 Enforcement Action: 09/17/2010
Enforcement Detail: St Public Notif requested Enforcement Category: Informal

Violation ID: 11410 Orig Code: S
Enforcemnt FY: 2010 Enforcement Action: 09/27/2010
Enforcement Detail: St Public Notif received Enforcement Category: Informal

Violation ID: 11712 Orig Code: S
Enforcemnt FY: 2012 Enforcement Action: 01/31/2012
Enforcement Detail: St Intentional no-action Enforcement Category: Informal

Violation ID: 11712 Orig Code: S
Enforcemnt FY: 2012 Enforcement Action: 04/19/2012
Enforcement Detail: St Intentional no-action Enforcement Category: Informal

PWS name: NEW EBENEZER RETREAT CENTER
Population served: 125 PWS type code: NC
Violation ID: 10101 Contaminant: Coliform (Tcr)
Violation type: Monitoring, Routine Major (TCR)
Compliance start date: 4/1/2001 0:00:00 Compliance end date: 6/30/2001 0:00:00
Enforcement date: 7/18/2001 0:00:00 Enforcement action: State Violation/Reminder Notice
Violation measurement: 0

PWS name: NEW EBENEZER RETREAT CENTER
Population served: 125 PWS type code: NC
Violation ID: 10101 Contaminant: Coliform (Tcr)
Violation type: Monitoring, Routine Major (TCR)
Compliance start date: 4/1/2001 0:00:00 Compliance end date: 6/30/2001 0:00:00
Enforcement date: 7/18/2001 0:00:00 Enforcement action: State Public Notif Requested
Violation measurement: 0

PWS name: NEW EBENEZER RETREAT CENTER
Population served: 125 PWS type code: NC
Violation ID: 10101 Contaminant: Coliform (Tcr)
Violation type: Monitoring, Routine Major (TCR)
Compliance start date: 4/1/2001 0:00:00 Compliance end date: 6/30/2001 0:00:00
Enforcement date: 8/6/2001 0:00:00 Enforcement action: State Public Notif Received
Violation measurement: 0

PWS name: NEW EBENEZER RETREAT CENTER
Population served: 125 PWS type code: NC
Violation ID: 10402 Contaminant: Coliform (Tcr)
Violation type: Max Contaminant Level, Monthly (TCR)
Compliance start date: 9/1/2002 0:00:00 Compliance end date: 9/30/2002 0:00:00
Enforcement date: 10/28/2002 0:00:00 Enforcement action: State Public Notif Received
Violation measurement: 0

PWS name: NEW EBENEZER RETREAT CENTER
Population served: 125 PWS type code: NC
Violation ID: 10402 Contaminant: Coliform (Tcr)
Violation type: Max Contaminant Level, Monthly (TCR)
Compliance start date: 9/1/2002 0:00:00 Compliance end date: 9/30/2002 0:00:00
Enforcement date: 11/25/2002 0:00:00 Enforcement action: State Formal NOV Issued
Violation measurement: 0

PWS name: NEW EBENEZER RETREAT CENTER
Population served: 125 PWS type code: NC
Violation ID: 10402 Contaminant: Coliform (Tcr)
Violation type: Max Contaminant Level, Monthly (TCR)
Compliance start date: 9/1/2002 0:00:00 Compliance end date: 9/30/2002 0:00:00
Enforcement date: 9/17/2002 0:00:00 Enforcement action: State Violation/Reminder Notice
Violation measurement: 0

PWS name: NEW EBENEZER RETREAT CENTER
Population served: 125 PWS type code: NC
Violation ID: 10402 Contaminant: Coliform (Tcr)
Violation type: Max Contaminant Level, Monthly (TCR)
Compliance start date: 9/1/2002 0:00:00 Compliance end date: 9/30/2002 0:00:00
Enforcement date: 9/17/2002 0:00:00 Enforcement action: State Public Notif Requested
Violation measurement: 0

PWS name: NEW EBENEZER RETREAT CENTER
Population served: 125 PWS type code: NC
Violation ID: 10503 Contaminant: Coliform (Tcr)
Violation type: Monitoring, Repeat Major (TCR)
Compliance start date: 9/1/2002 0:00:00 Compliance end date: 9/30/2002 0:00:00
Enforcement date: 10/21/2002 0:00:00 Enforcement action: State Violation/Reminder Notice
Violation measurement: Not Reported

PWS name: NEW EBENEZER RETREAT CENTER
Population served: 125 PWS type code: NC
Violation ID: 10503 Contaminant: Coliform (Tcr)
Violation type: Monitoring, Repeat Major (TCR)
Compliance start date: 9/1/2002 0:00:00 Compliance end date: 9/30/2002 0:00:00
Enforcement date: 10/21/2002 0:00:00 Enforcement action: State Public Notif Requested
Violation measurement: Not Reported

PWS name: NEW EBENEZER RETREAT CENTER
Population served: 125 PWS type code: NC
Violation ID: 10503 Contaminant: Coliform (Tcr)
Violation type: Monitoring, Repeat Major (TCR)
Compliance start date: 9/1/2002 0:00:00 Compliance end date: 9/30/2002 0:00:00
Enforcement date: 11/25/2002 0:00:00 Enforcement action: State Formal NOV Issued
Violation measurement: Not Reported

PWS name: NEW EBENEZER RETREAT CENTER
Population served: 125 PWS type code: NC
Violation ID: 10503 Contaminant: Coliform (Tcr)
Violation type: Monitoring, Repeat Major (TCR)
Compliance start date: 9/1/2002 0:00:00 Compliance end date: 9/30/2002 0:00:00
Enforcement date: 11/7/2002 0:00:00 Enforcement action: State Public Notif Received

Violation measurement: Not Reported

PWS name: NEW EBENEZER RETREAT CENTER
Population served: 125 PWS type code: NC
Violation ID: 10603 Contaminant: Coliform (Tcr)
Violation type: Monitoring, Repeat Major (TCR)
Compliance start date: 7/1/2002 0:00:00 Compliance end date: 9/30/2002 0:00:00
Enforcement date: 10/21/2002 0:00:00 Enforcement action: State Violation/Reminder Notice
Violation measurement: Not Reported

PWS name: NEW EBENEZER RETREAT CENTER
Population served: 125 PWS type code: NC
Violation ID: 10603 Contaminant: Coliform (Tcr)
Violation type: Monitoring, Repeat Major (TCR)
Compliance start date: 7/1/2002 0:00:00 Compliance end date: 9/30/2002 0:00:00
Enforcement date: 10/21/2002 0:00:00 Enforcement action: State Public Notif Requested
Violation measurement: Not Reported

PWS name: NEW EBENEZER RETREAT CENTER
Population served: 125 PWS type code: NC
Violation ID: 10603 Contaminant: Coliform (Tcr)
Violation type: Monitoring, Repeat Major (TCR)
Compliance start date: 7/1/2002 0:00:00 Compliance end date: 9/30/2002 0:00:00
Enforcement date: 11/14/2002 0:00:00 Enforcement action: State Public Notif Received
Violation measurement: Not Reported

PWS name: NEW EBENEZER RETREAT CENTER
Population served: 125 PWS type code: NC
Violation ID: 10603 Contaminant: Coliform (Tcr)
Violation type: Monitoring, Repeat Major (TCR)
Compliance start date: 7/1/2002 0:00:00 Compliance end date: 9/30/2002 0:00:00
Enforcement date: 11/25/2002 0:00:00 Enforcement action: State Formal NOV Issued
Violation measurement: Not Reported

PWS name: NEW EBENEZER RETREAT CENTER
Population served: 125 PWS type code: NC
Violation ID: 10703 Contaminant: Coliform (Tcr)
Violation type: Max Contaminant Level, Monthly (TCR)
Compliance start date: 7/1/2002 0:00:00 Compliance end date: 9/30/2002 0:00:00
Enforcement date: 10/21/2002 0:00:00 Enforcement action: State Violation/Reminder Notice
Violation measurement: Not Reported

PWS name: NEW EBENEZER RETREAT CENTER
Population served: 125 PWS type code: NC
Violation ID: 10703 Contaminant: Coliform (Tcr)
Violation type: Max Contaminant Level, Monthly (TCR)
Compliance start date: 7/1/2002 0:00:00 Compliance end date: 9/30/2002 0:00:00
Enforcement date: 10/21/2002 0:00:00 Enforcement action: State Public Notif Requested
Violation measurement: Not Reported

PWS name: NEW EBENEZER RETREAT CENTER
Population served: 125 PWS type code: NC
Violation ID: 10703 Contaminant: Coliform (Tcr)
Violation type: Max Contaminant Level, Monthly (TCR)
Compliance start date: 7/1/2002 0:00:00 Compliance end date: 9/30/2002 0:00:00
Enforcement date: 11/14/2002 0:00:00 Enforcement action: State Public Notif Received
Violation measurement: Not Reported

PWS name: NEW EBENEZER RETREAT CENTER
Population served: 125 PWS type code: NC
Violation ID: 10703 Contaminant: Coliform (Tcr)
Violation type: Max Contaminant Level, Monthly (TCR)

Compliance start date: 7/1/2002 0:00:00 Compliance end date: 9/30/2002 0:00:00
Enforcement date: 11/25/2002 0:00:00 Enforcement action: State Formal NOV Issued
Violation measurement: Not Reported

PWS name: NEW EBENEZER RETREAT CENTER
Population served: 125 PWS type code: NC
Violation ID: 10803 Contaminant: Coliform (Tcr)
Violation type: Monitoring, Repeat Major (TCR)
Compliance start date: 10/1/2002 0:00:00 Compliance end date: 10/31/2002 0:00:00
Enforcement date: 11/25/2002 0:00:00 Enforcement action: State Formal NOV Issued
Violation measurement: Not Reported

PWS name: NEW EBENEZER RETREAT CENTER
Population served: 125 PWS type code: NC
Violation ID: 10803 Contaminant: Coliform (Tcr)
Violation type: Monitoring, Repeat Major (TCR)
Compliance start date: 10/1/2002 0:00:00 Compliance end date: 10/31/2002 0:00:00
Enforcement date: 12/23/2002 0:00:00 Enforcement action: State Public Notif Received
Violation measurement: Not Reported

PWS name: NEW EBENEZER RETREAT CENTER
Population served: 125 PWS type code: NC
Violation ID: 10803 Contaminant: Coliform (Tcr)
Violation type: Monitoring, Repeat Major (TCR)
Compliance start date: 10/1/2002 0:00:00 Compliance end date: 10/31/2002 0:00:00
Enforcement date: 12/5/2002 0:00:00 Enforcement action: State Violation/Reminder Notice
Violation measurement: Not Reported

PWS name: NEW EBENEZER RETREAT CENTER
Population served: 125 PWS type code: NC
Violation ID: 10803 Contaminant: Coliform (Tcr)
Violation type: Monitoring, Repeat Major (TCR)
Compliance start date: 10/1/2002 0:00:00 Compliance end date: 10/31/2002 0:00:00
Enforcement date: 12/5/2002 0:00:00 Enforcement action: State Public Notif Requested
Violation measurement: Not Reported

PWS name: NEW EBENEZER RETREAT CENTER
Population served: 125 PWS type code: NC
Violation ID: 10903 Contaminant: Coliform (Tcr)
Violation type: Max Contaminant Level, Monthly (TCR)
Compliance start date: 10/1/2002 0:00:00 Compliance end date: 10/31/2002 0:00:00
Enforcement date: 11/25/2002 0:00:00 Enforcement action: State Formal NOV Issued
Violation measurement: Not Reported

PWS name: NEW EBENEZER RETREAT CENTER
Population served: 125 PWS type code: NC
Violation ID: 10903 Contaminant: Coliform (Tcr)
Violation type: Max Contaminant Level, Monthly (TCR)
Compliance start date: 10/1/2002 0:00:00 Compliance end date: 10/31/2002 0:00:00
Enforcement date: 12/23/2002 0:00:00 Enforcement action: State Public Notif Received
Violation measurement: Not Reported

PWS name: NEW EBENEZER RETREAT CENTER
Population served: 125 PWS type code: NC
Violation ID: 10903 Contaminant: Coliform (Tcr)
Violation type: Max Contaminant Level, Monthly (TCR)
Compliance start date: 10/1/2002 0:00:00 Compliance end date: 10/31/2002 0:00:00
Enforcement date: 12/5/2002 0:00:00 Enforcement action: State Violation/Reminder Notice
Violation measurement: Not Reported

PWS name: NEW EBENEZER RETREAT CENTER
Population served: 125 PWS type code: NC

Violation ID:	10903	Contaminant:	Coliform (Tcr)
Violation type:	Max Contaminant Level, Monthly (TCR)		
Compliance start date:	10/1/2002 0:00:00	Compliance end date:	10/31/2002 0:00:00
Enforcement date:	12/5/2002 0:00:00	Enforcement action:	State Public Notif Requested
Violation measurement:	Not Reported		

7
WSW
1 - 2 Miles
Higher

FED USGS **USGS40000260019**

Organization ID:	USGS-GA	Organization Name:	USGS Georgia Water Science Center
Monitor Location:	36S033	Type:	Well
Description:	Not Reported	HUC:	03060109
Drainage Area:	Not Reported	Drainage Area Units:	Not Reported
Contrib Drainage Area:	Not Reported	Contrib Drainage Area Unts:	Not Reported
Aquifer:	Not Reported	Formation Type:	Not Reported
Aquifer Type:	Not Reported	Construction Date:	Not Reported
Well Depth:	Not Reported	Well Depth Units:	Not Reported
Well Hole Depth:	Not Reported	Well Hole Depth Units:	Not Reported

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS
RADON

AREA RADON INFORMATION

Federal EPA Radon Zone for EFFINGHAM County: 3

Note: Zone 1 indoor average level > 4 pCi/L.
: Zone 2 indoor average level >= 2 pCi/L and <= 4 pCi/L.
: Zone 3 indoor average level < 2 pCi/L.

Federal Area Radon Information for Zip Code: 31326

Number of sites tested: 6

Area	Average Activity	% <4 pCi/L	% 4-20 pCi/L	% >20 pCi/L
Living Area - 1st Floor	0.417 pCi/L	100%	0%	0%
Living Area - 2nd Floor	Not Reported	Not Reported	Not Reported	Not Reported
Basement	Not Reported	Not Reported	Not Reported	Not Reported

PHYSICAL SETTING SOURCE RECORDS SEARCHED

TOPOGRAPHIC INFORMATION

USGS 7.5' Digital Elevation Model (DEM)
Source: United States Geologic Survey
EDR acquired the USGS 7.5' Digital Elevation Model in 2002 and updated it in 2006. The 7.5 minute DEM corresponds to the USGS 1:24,000- and 1:25,000-scale topographic quadrangle maps. The DEM provides elevation data with consistent elevation units and projection.

HYDROLOGIC INFORMATION

Flood Zone Data: This data was obtained from the Federal Emergency Management Agency (FEMA). It depicts 100-year and 500-year flood zones as defined by FEMA. It includes the National Flood Hazard Layer (NFHL) which incorporates Flood Insurance Rate Map (FIRM) data and Q3 data from FEMA in areas not covered by NFHL.
Source: FEMA
Telephone: 877-336-2627
Date of Government Version: 2003, 2015

NWI: National Wetlands Inventory. This data, available in select counties across the country, was obtained by EDR in 2002, 2005, 2010 and 2015 from the U.S. Fish and Wildlife Service.

State Wetlands Data: Wetlands Inventory
Source: Georgia GIS Clearinghouse
Telephone: 706-542-1581

HYDROGEOLOGIC INFORMATION

AQUIFLOW^{R} Information System
Source: EDR proprietary database of groundwater flow information
EDR has developed the AQUIFLOW Information System (AIS) to provide data on the general direction of groundwater flow at specific points. EDR has reviewed reports submitted to regulatory authorities at select sites and has extracted the date of the report, hydrogeologically determined groundwater flow direction and depth to water table information.

GEOLOGIC INFORMATION

Geologic Age and Rock Stratigraphic Unit
Source: P.G. Schruben, R.E. Arndt and W.J. Bawiec, Geology of the Conterminous U.S. at 1:2,500,000 Scale - A digital representation of the 1974 P.B. King and H.M. Beikman Map, USGS Digital Data Series DDS - 11 (1994).

STATSGO: State Soil Geographic Database
Source: Department of Agriculture, Natural Resources Conservation Service (NRCS)
The U.S. Department of Agriculture's (USDA) Natural Resources Conservation Service (NRCS) leads the national Conservation Soil Survey (NCSS) and is responsible for collecting, storing, maintaining and distributing soil survey information for privately owned lands in the United States. A soil map in a soil survey is a representation of soil patterns in a landscape. Soil maps for STATSGO are compiled by generalizing more detailed (SSURGO) soil survey maps.

SSURGO: Soil Survey Geographic Database
Source: Department of Agriculture, Natural Resources Conservation Service (NRCS)
Telephone: 800-672-5559
SSURGO is the most detailed level of mapping done by the Natural Resources Conservation Service, mapping scales generally range from 1:12,000 to 1:63,360. Field mapping methods using national standards are used to construct the soil maps in the Soil Survey Geographic (SSURGO) database. SSURGO digitizing duplicates the original soil survey maps. This level of mapping is designed for use by landowners, townships and county natural resource planning and management.

PHYSICAL SETTING SOURCE RECORDS SEARCHED

LOCAL / REGIONAL WATER AGENCY RECORDS

FEDERAL WATER WELLS

PWS: Public Water Systems
Source: EPA/Office of Drinking Water
Telephone: 202-564-3750
Public Water System data from the Federal Reporting Data System. A PWS is any water system which provides water to at least 25 people for at least 60 days annually. PWSs provide water from wells, rivers and other sources.

PWS ENF: Public Water Systems Violation and Enforcement Data
Source: EPA/Office of Drinking Water
Telephone: 202-564-3750
Violation and Enforcement data for Public Water Systems from the Safe Drinking Water Information System (SDWIS) after August 1995. Prior to August 1995, the data came from the Federal Reporting Data System (FRDS).

USGS Water Wells: USGS National Water Inventory System (NWIS)
This database contains descriptive information on sites where the USGS collects or has collected data on surface water and/or groundwater. The groundwater data includes information on wells, springs, and other sources of groundwater.

OTHER STATE DATABASE INFORMATION

A listing of Private Water Well locations
Georgia Department of Public Health
Telephone: (404) 657-2700
A listing of Private Water Well locations

Georgia Public Supply Wells
Source: Georgia Department of Community Affairs
Telephone: 404-894-0127

USGS Georgia Water Wells
Source: USGS, Georgia District Office
Telephone: 770-903-9100

DNR Managed Lands
Source: Department of Natural Resources
Telephone: 706-557-3032
This dataset provides 1:24,000-scale data depicting boundaries of land parcels making up the public lands managed by the Georgia Department of Natural Resources (GDNR). It includes polygon representations of State Parks, State Historic Parks, State Conservation Parks, State Historic Sites, Wildlife Management Areas, Public Fishing Areas, Fish Hatcheries, Natural Areas and other specially-designated areas. The data were collected and located by the Georgia Department of Natural Resources. Boundaries were digitized from survey plats or other information.

RADON

Area Radon Information
Source: USGS
Telephone: 703-356-4020
The National Radon Database has been developed by the U.S. Environmental Protection Agency (USEPA) and is a compilation of the EPA/State Residential Radon Survey and the National Residential Radon Survey. The study covers the years 1986 - 1992. Where necessary data has been supplemented by information collected at private sources such as universities and research institutions.

EPA Radon Zones
Source: EPA
Telephone: 703-356-4020
Sections 307 & 309 of IRAA directed EPA to list and identify areas of U.S. with the potential for elevated indoor radon levels.

PHYSICAL SETTING SOURCE RECORDS SEARCHED

OTHER

Airport Landing Facilities: Private and public use landing facilities
Source: Federal Aviation Administration, 800-457-6656

Epicenters: World earthquake epicenters, Richter 5 or greater
Source: Department of Commerce, National Oceanic and Atmospheric Administration

Earthquake Fault Lines: The fault lines displayed on EDR's Topographic map are digitized quaternary faultlines, prepared in 1975 by the United State Geological Survey

STREET AND ADDRESS INFORMATION

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LEGEND

- ★ SITE LOCATION
- 2-MILE BUFFER OF SITE LOCATION
- PARCEL WITH WELL
- EFFINGHAM COUNTY PARCEL BOUNDARY
- APPROXIMATE PROPERTY BOUNDARY

NOTE:
AERIAL IMAGE SOURCES: DRONE IMAGERY DATED 01/22/2024; ESRI GOOGLE EARTH WEB SERVICE, ACCESSED 3/18/2025.

3,000 1,500 0 3,000

GRAPHIC SCALE IN FEET

COORDINATE SYSTEM: NAD 1983 STATEPLANE GEORGIA EAST FIPS 1001 FEET

Georgia Power

PLANT MCINTOSH

WELL LOCATION MAP

ARCADIS

FIGURE 1

PATH:T:\ ENVGA_PowerGPC_Plant_McIntosh_Pro\2025\GPC_McIntosh_Report\2025\GPC_McIntosh_Report2025.aprx\ F1_McIntosh_PublicWells Last Saved by : tdrum 3/19/2025



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